

TouchWin Pro software

User manual

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Data No. HSC02 20231123EN 1.4

Basic description

- Thank you for purchasing the Xinje TS series HMI.
- This manual mainly introduces the use of TouchWin Pro editing software of TS series HMI.
- Before using the product, please read this manual carefully and use it on the premise of fully understanding its contents.
- Please deliver this manual to the end user.

Notice to users

- Only operators with certain electrical knowledge can conduct wiring and other operations on the human-computer interface. If there is any ambiguity, please consult the relevant technical department of the company.
- The examples listed in the manual and other technical materials are only for users' understanding and reference, and certain actions are not guaranteed.
- When using HMI with other products, please confirm whether it conforms to relevant specifications and principles.
- When using the HMI, please confirm whether it meets the requirements and safety by yourself. For the possible machine failure or loss caused by product failure, please set backup and security functions by yourself.
- Please avoid using HMI in the environment of high radiation and strong magnetic field to avoid interference.

Declaration of responsibility

- Although the contents in the manual have been carefully checked, errors are inevitable, and we cannot guarantee that all the data are completely consistent.
- We will often check the contents of the manual and make corrections in the subsequent versions. We welcome your valuable suggestions.
- The contents introduced in the manual are subject to change without notice.

Related manual

Refer to the following manuals for TS hardware and connection with other communication devices.

- TS series HMI user manual [hardware]
- TS series HMI user manual [connection]

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1. TouchWin Pro software

1-1. TouchWin Pro installation

1. PC hardware configuration

CPU above INTEL Pentium II, More than 64MB memory. Hard disk with more than 2.5GB and at least 1GB of disk space. 32-bit true color display with resolution above 800 x 600.

2. Operation system

Windows 10/windows11.

- 3. Installation steps
- Find "setup. exe" in the installation file package and right click to run as an administrator. A dialog box as shown below appears. Select the language to install: (Note: Please close the anti-virus software during installation!)

TS	Select the language to use during the installation.	
	English	~
	OK Cancel	

(2) Click OK, select "I accept the agreement", click next.

	preement
Please r	ead the following important information before continuing.
	ead the following License Agreement. You must accept the terms of this agreement before ing with the installation.
1	人机界面编辑工具软件最终用户许可协议
重要》	页知:诸您仔细阅读以下使用许可的协议的条款和条件,您一旦安
装、参	夏制或以其它方式使用该软件,即表示您同意接受本《协议》中条款
和条件本软件	牛的约束。如果您不同意这些条款和条件,请不要安装、复制或使用 牛。
软件产	产品许可协议
本"软	件产品"受著作权法及国际条约条款和其它知识产权法及条约的保
护。	
(€) I gcc	ept the agreement
Oldo	not accept the agreement

(3) Select the software installation folder. It is recommended to install the software on a non system disk and in the English path. (%/!/@ and other special characters cannot exist in the installation path name)

Select Desti	nation Location					-
Where sh	ould TouchWin Pro b	be installed?				1
) si	etup will install ⊤ouc	chWin Pro into the foll	owing folder.			
To continu	ie, click Next. If you	would like to select a	different <mark>fo</mark> lder, clic	k Browse.		
C:\Progra	m Files (x86)\Touch	hWin Pro			Bro	wse
At least 7	28.7 MB of free disk	space is required.				

(4) Choose whether to add shortcuts.

Setup - TouchWin Pro versi	ion 1.0.2.220716R 🛛 — 🗖 🔜
Select Additional Tasks Which additional tasks should be performed?	75
Select the additional tasks you would like Setup to perform w	while installing TouchWin Pro, then dick Next.
Additional shortcuts:	
Create a desktop shortcut	
	Back Next Cancel

(5) Click Install to finish the installation.

	4	Setup - T	ouchWin	Pro vers	ion 1.0.2.	220716R	-	
Ready to 1								77
Setup is	now ready to	begin instal	ling TouchW	in Pro on you	computer.			
Click Ins	tall to continu	ie with the ir	nstallation, or	click Back if y	ou want to re	eview or cha	ange any se	ttings.
	tion location:		10.000					~
C:\	Program File	s (x86)\Touo	thWin Pro					
Addition	al tasks:							
Ado	litional short							
c	reate a desk	top shortcut						
16								2
					Back	2 18 K	Istall	Cancel



To install two or more different versions of editing software on the computer, you must select different

installation paths, otherwise overwriting the installation will cause the software to run abnormally or even fail to run. After installation is completed, if you modify the software installation directory, the directory name cannot $\frac{1}{2}$ wait for special characters.

1-2. TouchWin Pro software uninstallation

1. Find out "unins000.exe" ^{III} unins000.exe in the software installation folder, double click it to

uninstall the software.



- 2. Click Yes to unistall.
- 3. After the software uninstallation is completed, it will automatically exit the uninstallation program, and finally delete the installation directory folder by manual.

名称	修改日期	类型	大小
НМІ	2021/8/28 8:55	文件夹	
Log	2021/8/27 15:13	文件夹	
📙 Temp	2021/8/27 17:19	文件夹	

2. Make a simple program

TouchWin Pro editing software is simple and fast, and provides an ideal editing platform for beginners or users with a certain foundation. This chapter introduces the use of HMI editing software through a simple project production.

Please confirm the model of HMI and the type of communication equipment before making the program, which is the prerequisite for the normal operation of the screen program and equipment

2-1. New program



2. Select correct HMI model, for example TS3-700-E. Click next page.

V 🖬 TS3 Series	Screen size : 7' Resolution : 800 x 480
TS3-400-M(4*, 480 x 272)	Colour : 16.77 million
T\$3-400-E(4*, 480 x 272)	Brightness : 200 USB_A : 1
TS3-700-M(7*, 800 x 480)	Serial port : COM1(RS232/RS485) COM2(RS232/RS485/RS422)
T53-700-E(7*, 800 x 480)	Ethernet : 1
TS3-700-M3(7*, 800 x 480)	SD : None Key : None
TS3-1000-M(10*, 1024 × 600)	Audio : None WiFi : None
TS3-1000-E(10*, 1024 x 600)	4g : None
TS3-1000-M3(10*, 1024 x 600)	
T53-1200-M(12*, 1024 × 768)	
T53-1200-E(12", 1024 x 768)	
TS3-1500-E(15*, 1920 x 1080)	-
TS3-1500-M(15*, 1920 × 1080)	
TS3-700-X14(7", 800 x 480)	
> E PC Series	
	Display Normal ·
	unection

3. Set the COM port, the COM port has no equipment by default. You need to select the PLC brand through the pull-down menu. After selecting the correct PLC type in the list, click the "New Equipment" button, and set the equipment name and its communication parameters in the pop-up window

COM1	信捷	1
COM2 Net0	信捷 西门子 Modbus_通用	
	三菱 台达 基恩士	
	产电 丰炜 欧姆龙	
	汇川 永宏 松下	
	AB 光注 ABB	
73		× 🗵
COM1		Communication settings
COM2	信捷 XC系列	Essential information Equipm Test XC = 50
Net0	信捷 XD/XL/XG系列 (Modbus RT	Equipm 信捷 XC系列
		Serial communication information
		Interfac RS232 V
		Baud 19200 Y Data bit 8 Y
		Check Parity check v Stop bit 1 v
		Station 1
		Timeout and packaging parameters
	New equipment	Communicat 1000 Retry count 3
		Delay time 0 Interval time 0
	Serial Equipment name Equipr 0 추내방송을 추내망	Maximum 120 🔄 Maximum 120 €
		Advanced Confirm

4. Set the Ethernet port (Net0), select the PLC brand through the pull-down menu, select the correct PLC type in the list, click the "New equipment" button, and set the communication parameters such as device name and IP address in the pop-up window.

75		×
COM1 COM2	西门子信捷	v
Net0	西门子 Modbus_通用 三菱 台达 基恩士 产电 丰炜 欧姆龙 汇川 永宏 松下 AB 光洋	

5					Co	mm	unication setti	ngs	
COM1 COM2		(D/XL/XG系列(Ma	odburg TCP)	Essential inform	0.0203000	() ((Modbus TCP)		
Net0	In fat A	(D/XL/XG兼9] (WC	oddus (CP.)				Modbus TCP)		
				Network port	communicati	on in	formation		
				space	2 . 168 .	6			
				End 502	2		Station	1	
				Timeout and p		rame	ters		
				Communicat			Retry count	1	
				Delay time Maximum	0	1998	Interval time Maximum	0	1021
	New	equipment		Maximum	120	٢	Maximum	120	
	Serial	To descent states	Equipment	Communic		egist	er		
	0		本地设备	PSW 100 Do not export communication status informatio					
				Communic					
					100				
				Do n	ot use comm	unica	tion mask addr	ess	
				-					
				Advanced	1				Confirm

Click the "Set native IP" button, and set the HMI native IP address parameters in the pop-up window (you can choose to automatically obtain the IP address or customize the IP address)

COM1	信捷
COM2	
Net0	信捷 XS系列 (CodeSys)
	本机IP
	○ Get address ● 使用自定义IP地址
	19世世 192 168 6 2
	New equ Subnet 152:100:00:2 Set native IP Subnet 255:255:255:0 0
	No. (Default 192,168, 6, 1) Port type Communication Statio
	0 DNS# 0.0.0.0 Net 192,168,66,502 1
	Ok Cancel

- 5. Click ok to finish the building.
 - (1) TouchWin Pro software cannot support TG series HMI.
 - (2) -E series HMI can support Ethernet devices.

2-2. Screen edit

Realize the reverse operation of digital value Y0, and display the output status of Y0 through the indicator on

the HMI.

1. Make the button

Click the menu Parts/key/key or key icon key in control window. Click on the editing screen to set its properties in the pop-up properties dialog box.

Basic properties

Write address: set to Y0.

Action: set to reverse.

		Ke	ey.	
lasic proper	Appearance	Function bind	i Security settin	Position
Control	D BTO			
Describe				
Write add	ress			
Equipm	信捷 XD/XL/XC	家列(Modbu	s RTU)	✓ Set up
Address	Y	v 0	1	
		In	direct designatic	n
Action				
00	ton OS	et off	Reverse	Instantaneous on

Text: enter reverse Y0.

Key	
ce Function bindi Security settine Position	
Use pictures	
Status 0	~
Name button_05_a	
Categor svg	
Dimensi 80 × 42	
arance More	
olor v Fill color	~
1000000000 a	
✓ ☑ Display Apply fonts to each	
lin	
✓ ✓ Display Apply fonts to each	

You can click "Change appearance" to enter the resource material library of the system and select an appropriate appearance, or click "More" to select a custom picture as the appearance of the component.

2. Indicator light

Click the menu Parts/key/indicator light or click the indicator icon in control window. Click on the editing screen to set its properties in the pop-up properties dialog box.

Basic properties

Read address: set to Y0.

Logic: set to positive logic.

asic proper	tie Appearance	Security se	ettin	Position	1	
Control						_
Read add	lress					
Equipm	信捷 XD/XL/XG	家列(Mod	bus R	ru)	~	Set up
Address	Y	*	0		1	
			Indire	ct design	nation	
logic						
● Po	ositive logic		0	Negative	logic	
twinkl	e					
. 0	n status flashes		0	Off statu	s flashes	5

■ Appearance

Set the appearance display of its ON status and OFF status respectively.

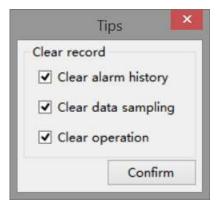


2-3. Offline simulator

In order to facilitate the user to debug and edit the screen, the actual operation of HMI and PLC can be simulated on the computer (no need to connect PLC).

1.Click the menu File/offline simulator or offline simulator icon

2. The following prompt window will pop up in the interface, and it is recommended to select all of them, otherwise the simulation will be abnormal.



3.Click the "Reverse Operation" button to directly observe the output state of Y0 through the indicator light

ON	Reverse Y0	OFF Reverse Y0
	ON status	OFF status

2-4. Online simulation

Simulate the actual operation of HMI and PLC on the computer to realize the monitoring function of the lower computer equipment (PLC must be connected to the computer, and the effective operation time of online simulation is within 2 hours).

1. Click the menu File/online simulation or online simulation icon in control window.

	Comm port co	onfiguration	×
Device Port No.	Local port No.	Config result	
COM2		>>>>	
		<~~<	
	Deter	mine Cancel Ap	plication

2. At this time, you need to configure the port. Configure the device port with the local port. First click to select the device port number, then click to select the local port number, and then click the middle button. The right side will display the configuration results.

	Comm port configuration			Comm port con	figuration
Device Port No.	Local port No.	Config result	Device Port No.	Local port No.	Config result (COM1, COM4) 4
	Dete	ermine Cancel Application		Determi	ne Cancel Application

Device port	Select the HMI port number, that is, the COM port selected when adding a device for a new
number	project, which can be viewed by clicking "File/System Settings - Equipment"
Local port	Select the port number of the PLC connected to the computer, which can be viewed through the
number	computer device manager

Configuration	Display port configuration results
result	
2 The fall	owing prompt window will non up in the interface, and it is recommended to select all of them

The following prompt window will pop up in the interface, and it is recommended to select all of them, 3. otherwise the simulation will be abnormal.

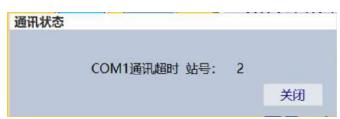
	Tips	×
Clear recor	d	
✓ Clear a	larm history	
Clear d	l <mark>ata sampli</mark> n	g
Clear o	peration	
	Confirm	n

4. After the above operations are completed, click "OK" to enter the online simulation screen, which can realize the function of the computer monitoring the PLC. In the figure, Y0 output is achieved through reverse operation, as shown in the indicator light



OFF status

If the prompt window of "communication timeout" appears on the online simulation interface, first check whether the port is correctly selected and configured, and then check whether the serial port in the computer is occupied by other software.



2-5. Program download

2-5-1. Download overview

There are three download methods for TS series HMI: USB, LAN and Remote. LAN and Remote require (- E) series models.

The project downloaded by default does not support upload. If you need to support project upload, please select "Allow project upload" on the download page. Then, you can set the "upload password".

	+	
Click the menu File/download or the download icon	Download	to show the following window.

	Download (PC - > HM	I) 🔀
Communication settings		
Connection LAN	Ÿ	
Device IP discovery	~	
O Device ID lookup	~	
Scan	IP Communic	
Upload Download		
Downloa	Ø	
✓ Allow project upload	✓ Upload pa	•••
□ Synchronize PC time ✔ Clear alarm record		Enable installment
	 Clear operation 	✓ Clear data acquisition
Overwrite recipe data	 Download fonts to 	✓ Clear PFW/SPFW data
Download Upload	1	Close

Communication settings	Set the download connection mode and corresponding parameter settings
Connection	Refers to the way to connect the HMI. You can select USB, LAN and remote
Download password	To set the download password of the project, it must be consistent with the password
	set in the HMI, otherwise it will not be downloaded. The default download password
	is 123456. For the modification of the password in the HMI, refer to chapter 7-2
	Password
Allow project upload	Set whether the current project can be uploaded
Upload password	When Allow Project Upload is selected, you can choose to set the upload password
User defined boot screen	After checking, click "Browse", and select the file as the HMI boot loading screen

	(the current version only supports images with 800 * 480 pixels and BMP format)
Synchronize PC time	The time information of the computer is synchronously downloaded to the HMI to
	synchronize the HMI clock with the computer
Hide menu system	There is a system menu at the lower right corner of the HMI by default, here you can
	set whether the menu is displayed
Enable installment	This download will enable the installment function
Clear alarm record	This download will delete the alarm information stored in HMI
Clear operation	This download will delete the operation record information stored in HMI
Clear data acquisition	This download will delete the data collection information stored in HMI
Overwrite recipe data	This download will overwrite the original recipe data in HMI with the recipe data set
	in the current project
Download fonts to	Download the fonts of the computer to the HMI to synchronize the HMI fonts with
	the computer
Clear PFW data	This download will delete PFW data stored in HMI
Download	Execute the download operation, and download the project to the HMI
Upload	Read the project in HMI to the computer, and check "Allow project upload" is
	selected when downloading the project in HMI, otherwise it will prompt that the
	project does not support upload
Close	Close the window

2-5-2. USB download

When USB connection mode is selected, it can be used after successful connection, and no other parameter setting is required.

(Note: TS5 series HV2 and above versions are not supported);

USB refresh: Identify the currently available USB. If no USB is identified, the "communication" cannot be clicked.

Connection	USB	~

Communication: It is used to test whether the HMI is successfully connected to the computer. After clicking, the connection status will be displayed on the right side of the button, including "connection succeeded, connection failed, connection timeout.

2-5-3. LAN download

When the LAN connection mode is selected, IP and ID settings will be displayed below. You need to enter the correct IP or ID address to download the program.

(Note: - E model supported, you need to first change the network adapter IP of the computer to a manually specified IP, and it should be in the same network segment as the HMI's IP);

Communication settings	
Connection LAN	~
Device IP discovery	~
O Device ID lookup	~
Scan I	P Communic

Device IP discovery: Input the IP address of the connected HMI, or select the last input address through the drop-down box

Device ID loopup: Input the ID address of the connected HMI, or select the last input address through the drop-down box. The touch screen ID can be viewed on the label on the back of the HMI.

Scan IP: When the IP address is uncertain or multiple HMIs are connected, click this button to scan the device IP connected to the computer, select the IP address to download from the scanned IP addresses, and click it to pop up the window below.

Hmi Hmi Hmi Hmi	172,31,0.55 172,31,0,1	417-036-024-7885-1350 314-127-180-D7AF-7974	T\$3-700-E
Hmi		314-127-180-D7AF-7974	
10000		And the read being that a	TS5L-1500-E
1000	172.31.1.223	023-255-053-562C-5941	T\$5L-700-E
Himi	172.31.0.136	409-009-238-FBBA-7365	T\$5L-700-E

Communication: It is used to test whether the touch screen is successfully connected to the computer. After clicking, the connection success, connection failure or connection timeout will be displayed on the right side of the button.

2-5-4. Remote download

When remote connection is selected, the HMI needs to be connected to the network, and the correct ID number and password need to be input, as shown in the following figure (not supported in the current version).

(Note: TS5 or above models are required and maintain network connection. Remote system updates are sensitive operations and should be operated with caution. When network connection is abnormal, it may cause downloading failure or even system update failure. HMI needs to be updated on the local area network to recover.);

onnection Remote	~
inection Neniote	
Device ID 110191008F9187089	~
Password	

Device ID: Input the ID address of the connected HMI, or select the last input address through the drop-down box. The HMI ID can be viewed on the label on the back of the product.

Password: User defined remote connection password.

2-5-5. U disk download

When selecting a USB drive to download, it is necessary to prepare a USB drive and generate a USB drive file through the upper computer. Then, select and import the download from the lower computer;

USB file generation: Export and store the project as .dat file, with a customizable file name but .dat suffix. Copy the generated file to the root directory of the USB drive and connect it to the HMI. The file can be directly downloaded to the TS series HMI.

The operation steps are as follows:

- Open the "File" menu, select "Generate USB Flash disk File", and a dialog box for selecting the save path will appear, as shown in the following figure. Click "...,", select the path to save in the pop-up window, enter the name of the USB drive project file to be saved, and note that the file save type must be dat.
- 2. After selecting the path, select the HMI hardware version number to download, and then click the "Export" button.

Synchronize PC	🗹 Hide menu system	🗌 Enable installment
☑ Clear alarm record	Clear operation	🗹 Clear data
🗹 Overwrite recipe	Download fonts to	Clear PFW/SPFW
Export file		

Note: HV1 is an old version, HV2 is a new version. The old version of the HMI can only select HV1, and the new version of the HMI can only select HV2. Otherwise, it will prompt that the firmware is incorrect. Please refer to 7-3 for the current hardware version of the HMI.

3. If the export is successful, a prompt will appear as shown in the following figure, and a file must be generated in the save path. The file type must be .dat (do not modify the file suffix). Copy the file to the root directory of the USB drive for later use.



- 4. Insert the USB drive into the USB port of the HMI, and a "USB Drive Update" pop-up window will pop up in the upper left corner of the HMI. Click "Update Hmi Project" to pop up a file selection window, as shown in the following figure.
- 5. Select the project to be imported from the list, click the "OK" button in the bottom right corner, and the system will automatically execute the import of the project file. The progress bar of the imported project will be displayed on the screen. After the import is completed, remove the USB flash drive.

选择更新文件
Show: *.dat Favorites
database/
导出工程.dat
Preview Show hidden files
Filename (met (utick/ERU) TH dat
Filename: //mnt/udisk/导出工程.dat
OK <= Cancel

The "Allow Project Upload" setting on the software download interface after updating the project using a USB drive does not take effect, meaning that the updated project through the USB drive is not allowed to be uploaded.

2-6. Upload project

The HMI supports the upload function of engineering data, which is convenient for data resource management.

Click the menu File/download or download icon , click the "Upload" button at the bottom of the pop-up window. The precondition for uploading is that "Allow Project Upload" is selected when downloading the project to the HMI. If the upload password is set, you need to enter the correct password to upload the project successfully.



Password input range: 1-8 digits and characters.

	Download (PC - > HMI)
Communication settings		
Connection LAN	~	
Device IP discovery	~	
O Device ID lookup	~	
Scan	IP Communic	
Upload Download		
Downloa	æ	
☑ Allow project upload	☑ Upload pa 1111	11 💿
□ Synchronize PC time ✔ Clear alarm record	☐ Hide menu system ✓ Clear operation	🗌 Enable installment
		Clear data acquisition
 Clear alarm record Overwrite recipe data 	 Download fonts to 	 Clear data acquisition Clear PFW/SPFW data

When the download is successful, the steps to upload the project are as follows:

1. Complete steps $1 \sim 3$ as shown in the figure below

_	Communication settings		
↓ mload	Connection USB v		1 . n
tep 1			1.11
if ⊮ mmi	US8刷新 Communi		
	Upload and download		
	Download password		
	Allow project upload Upload p 11111		
	B	rowse For Folder	
	☐ 0.01 00.1100 DOCT 31.1011 请选择文件夹 ▲ ③ TXB		
	Synchronize PC time		
	Clear alarm record Clear alarm record Clear alarm record		
	☑ Overwrite recipe data ▷ Le Desktop ▷ Desktop ▷ Desktop ▷ Desktop ▷ Desktop ▷ Desktop ▷ Desktop	step 3: select the folder to save the upload file	
	 Downloads Eavorites Intel 		
	Links		_
	Make New Folder	OK Can	cel

2. Click OK to pop up the password input dialog box. Enter the upload password set during download, and click OK. (If the upload password is not selected, this step is not available)

輸入密码		
密码:	*****	确认

3. After clicking OK, the progress bar of file upload will be displayed, and the words "upload succeeded" will be displayed.

连接方式	JSB	~	
	USB刷新	通信测试 道	连接成功!
上传下载			
☑ 下載密码 123	156	۲	
☑ 允许工程上传	☑ 上传	密码 123456	
		LATE COR	
Le acor L'estes			
□ 用户自定义开机	画面		
□ 同步PC时间至H		龖系统菜单	□ 启用分期付款
☑ 清除报警记录	☑ 清照	余操作记录	☑ 清除数据采集记
☑ 覆盖配方数据		成字体至HMI	☑ 清除PFW数据
CJ SEMANJSKAH		50 J - MK EL IIVII	
文件正在上传,请	肖候		
文件上传成功			
1			
下载	L/±		
下载 -	上传		

If Allow Project Upload is not selected, a window prompt of "No Upload" will appear when clicking upload.



2-7. SCADA project

The SCADA project needs to be used in conjunction with the secret dog Autowin Pro.

- 1. Open the editing software, click the "New" icon on the toolbar or "New" under the "File" menu.
- 2. Select the TS-PC series and select the corresponding resolution based on the display.

Ŧ

Monitor	Product description
✓ ➡ TS-PC series ■ PC-800x600(800 × 600)	 Resolving power : 1024 x 768 Serial port : COM1(RS232/RS485)
PC-1924x768(1024 x 768)	Network interface:1
PC-1152x864(1152 x 864)	
PC-1280x600(1280 x 600)	
PC-1280x720(1280 x 720)	11
PC-1280x768(1280 x 768)	
PC-1280×800(1280 × 800)	
PC-1280x960(1280 x 960)	
PC-1280x1024(1280 x 1024)	
PC-1360x768(1360 x 768)	
PC-1366x768(1366 x 768)	
PC-1400x1050(1400 x 1050)	
PC-1440x900(1440 x 900)	
PC-1600x900(1600 x 900)	
PC-1580x1050(1680 x 1050)	
PC-1920x1080(1920 x 1080)	 Display Normal direction

3. Set the COM port. By default, there is no device for the COM port. You need to select the PLC brand through the drop-down menu, select the correct PLC type in the list, and click the "New Equipment" button. In the pop-up window, set the device name and its communication parameters.

COM1		Essential in	formation			
	Xinje	Device	Xinje XD RTU			
Net0	Xinje XC RTU		Xinje XD RTU			
	Xinje XD RTU		L	324		
			munication infor	matic	n	
		Baud	RS232			-
			19200	~	Data <mark>b</mark> it	8
		Check	Parity check	~	Stop bit	1
		Station	1			
		Timeout an	nd packaging pa	arame	ters	
		Communi	icat 1000		Retry count	3
	New equipment	Delay tir	me 0		Interval time	0
		Maximur	^m 120	-	Maximum	120
	No. Device name Equ	lip	1	(and)		
	0 Local Device Loca	Advanced	d			

4. Set the Ethernet port, select the PLC brand through the drop-down menu, select the correct PLC type in the list, and click the "New Equipment" button. In the pop-up window, set communication parameters such as

device name and IP address.

COM1	Xinje	Communication	settings			
Net0	Xinje XD TCP	Essential infor				
	Xinje XS CodeSys		nje XS CodeSys			
	Xinje CAD	Zquipin Xir	nje XS CodeSys			
		10	communication in	and the second se		
		space 19	92 . 168 . 6	<u> </u>		
		End 48	40	Station	1	
		Timeout and p	backaging parame	ters		
		Communicat 15 Delay time 0	1500			
	-		0		0	
	New equipment	Maximum	120		120	
	No. Device name	Communic	ation status regist	or		
	0 Local Device	PSW	100			
		Do n	ot export commu	ication status ir	nformatio	
		Communic	ation shield addre	55		
		PSB	100			
		Do n	ot use communica	tion mask addr	ess	
		Advanced				

Click "set native IP", set the IP address parameter in the pop-up window (set to be in the same network segment as the local network card).

COM1	Xinje
Net0	Xinje XD TCP
	Xinje XS CodeSys
	Xinje CAD
	Local IP.
	Automatically obtain IP () Use custom IP address
	IP address 192 , 168 , 6 , 2
	supper 255 . 255 . 0
	No. Default 192 168 6 1 rt type Communication Stati
	DNS server 0 0 0 0 PCUA 192.168.5.6 : 4840 1
	Ok Cancel

- 5. Click OK to finish the setting.
- 6. Generate configuration, click "Generate Configuration" under the "File" menu, and a window will pop up.

option		
☑ Clear alarm record	Clear operation	✓ Clear data acquisition
Overwrite recipe data	☑ Clear PFW/SPFW data	
file name		

7. Fill in the configuration file name, select the corresponding path, click export, and complete the configuration generation.

8. Open the corresponding folder and run it by double clicking on the corresponding file.

Hmi.Simulator.dll	8/21/2023 6:11 PM	Application exten
Hmi.WPP.dll	8/21/2023 10:36 AM	Application exten
image-dafbf64416dd99addf3e9450cf2231	5/28/2015 2:11 PM	JPG File
IMG-20150526-WA0000_resized.jpg	5/26/2015 12:17 PM	JPG File
inverter1.png	6/2/2015 9:08 AM	PNG File
nxet3.PNG	5/29/2015 1:49 PM	PNG File
panbaidu download explanation.png	5/28/2015 8:38 AM	PNG File
75 today.exe	12/23/2023 3:51 PM	Application
La VID-20150526-WA0004.mp4	5/26/2015 4:21 PM	MP4 Video File (V
📥 VIDEO0044.mp4	5/27/2015 8:37 AM	MP4 Video File (V

9. Open the corresponding folder, double-click the corresponding file to run it, and a dialog box will pop up as shown in the following figure.

通讯口配置			?	×
设备端口号	本机端口号	配置结	课	
COM1	COM4	>>>>		
		~~~~		
		定 取消	RUN RUN	

10. At this point, it is necessary to configure the port and connect the device port with the local port. First, click to select the device port number, then click to select the local port number, and then click the middle button. The configuration result will be displayed on the right side.

通讯口配置		? ×	通讯口配置		? ×
设备端口号	本机端口号	配置结果	设备端口号	本机端口号	配置结果
COM1	COM4				(COM1,COM4)
1	2	>>>>			
		3			
		~~~~		-	~~~~
	确定	取消 应用		确定	取消 应用

Device port	Select the HMI port number, which is the COM port selected when creating a new project or
number	adding a device. This can be viewed by clicking on "File/System Settings - Device".
Local port	Select the port number for connecting the PLC to the computer, which can be viewed through
number	the computer device manager.
Configuration	Display port configuration results.
Results	

10. After completing the above operations, click "OK" to enter the online simulation screen, which can realize the monitoring function of the computer on the lower computer PLC.

If you need to start up and run automatically, you can add the application to the startup automatic run list.

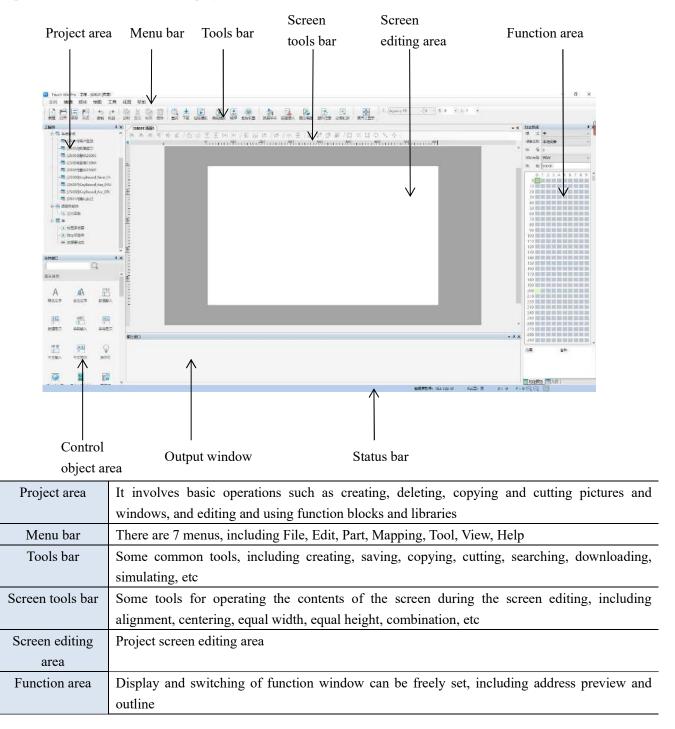
3. Software screen and window

This chapter gives an overall description of the TouchWin Pro editing tool.



3-1. Software structure

Open TouchWin Pro, build a new project.



Control object	Control list window for screen editing, including basic components, equipment, drawing, data
area	processing and special components
Output window	When the project reports an error, the error message will be displayed here, and the
	compilation information and results will also be displayed here when the project is simulated
	or downloaded
Status bar	Display HMI model, PLC port connection device, download port connection device, etc

3-2. Project area

It is mainly used to add, cut, copy, paste and delete images, windows, function blocks and libraries.

3-2-1. Add

1. Add the screen

Select "User Screen" in the project area, right-click and select "Add to", and the following property dialog box will pop up:

	Engineering tree Constraints Constraints	
	Page propertie	s
Page info Page		
Fage	Page2	
Page	2	
Page backgro	· ·	
Picture si	ze	
Width	800 \$	
Height	480	
Overlay v	vindow	
Top floor	无	*
Bottom	无	~
Screen p	ermission	
	user per 权限1	~
✓ Switch	to the permission range when	the screen / window is clos
	权限2	~

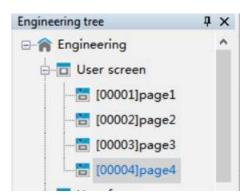
Page name	Customize the name of this screen	
Page no.	Set the number of the screen, which is incremented by default. After clicking "OK", the screen	
	number cannot be changed	
Page	Set the background color of the project screen	
background		
Picture size	Set the width and height of the screen. If it is a user screen, the picture size is the resolution by	

	default and cannot be changed. The user window can freely adjust the width and height	
Overlay	Set the overlapping display window of the picture. Overlapping windows can be set at the top	
window	and bottom layers. After setting, the set picture will be displayed on the top or bottom layer of	
	the picture, but the superimposed picture can only be displayed and cannot be operated. For	
	example, if the bottom overlay screen 1 is set in the properties of screen 2, the content of screen	
	1 will be displayed in screen 2 like the background. The overlay screen will be displayed in gray	
	during project editing to distinguish between the two screens, and will be displayed normally	
	when simulated or downloaded into the HMI. See the following case description for specific use	
	methods	
Screen	Set operation permission for the current screen	
permission		
Switch	After checking, when the screen/window is closed, the permission becomes another permission	
permission	set (As shown in the figure above, when it is closed, the current screen permission is switched	
range	from permission 1 to permission 2)	

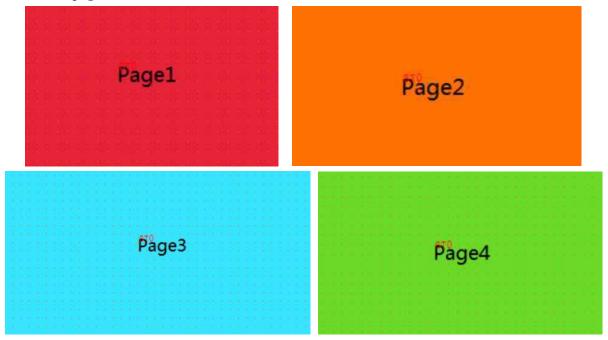
When the screen properties needs to be modified, select "Project Area/Object Screen Number", double-click the mouse left button directly, or click the mouse right button to select "properties".

For the use of overlapping windows, the following is an example.

(1) Add 4 screens



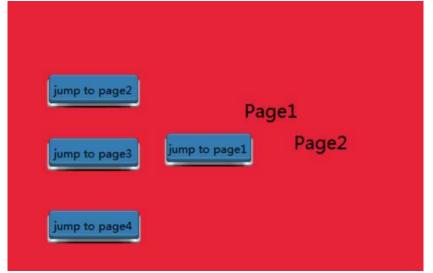
The four pages are shown as below:



(2) Set Page 2 as the top layer of Page 1. Operating Steps: Right click on Page 1, click Attribute, and select Page 2 at the top level under the overlapping window. At this time, the entire screen tone of Page 1 will darken, making it easy to distinguish between superimposed images. All components of Page 2 will be displayed on Page 1 and the tone will darken, and will be displayed normally when simulated or downloaded into the touch screen.

2
2

(3) You cannot open/switch from the current page to a window or page with the current page as the top/bottom layer. Take offline simulation as an example. Set the starting screen as Page 1. Page 1 that jumps from Page 3, 4 will display the superimposed screen, as shown in the figure below.



If you click the function key of "Jump to page 2" on page 1, the current screen will still be displayed (that is, the superimposed page 1).

If you click the function key "Jump to page 3/4" on page 1, the screen of page 3/4 will be displayed.

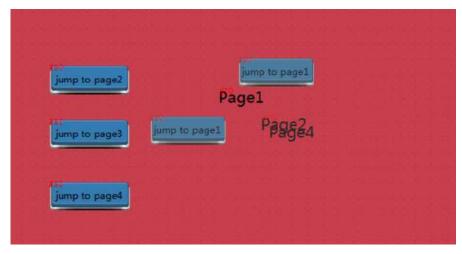
If you click the function key of "Jump to page 1" on page 3/4, the superimposed page 1 will be displayed.

If you click the function key of "Jump to page 1" on page 2, page 1 before superimpose will be displayed.

The same is true for the bottom layer.

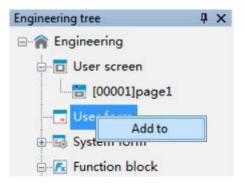
If the top layer and bottom layer are set at the same time, the superposition order of screen elements

is current page ->top layer ->bottom layer, and the elements of the current page will be displayed at the top. (As shown in the following figure, the current page is Page 1, Page 2 is the top layer, and Page 4 is the bottom layer)



2. Add window

Select "User Form" in the project area, right-click and select "Add to", and the following property dialog box will pop up:



	Page	properties	
Page info	ormation		
Page	Forms5001		
Page	5001	Used as keybo	oard display
Page backgro			
Picture si	ze		
Width	800		
Height	480		
Overlay v	window		
Top floor	无		~
Bottom	无		~
Pop up w In the Show i Mono	middle of the screen		
Automatical Landsterra	ermission		
54	user per 无 n to the permission r	ange when the screen	v / window is clo
		Determine	Cancel

The properties interface of the new form is basically the same as that of the new screen. The following only describes the differences:

Page number	Set the number of the current form, which is incremented by default. After clicking OK, the	
	form number cannot be changed. Different from the screen, the number of the form starts from	
	5001	
Picture size	Set the width and height of the form. The width and height can be adjusted freely	
In the middle	Place the form in the center of the entire screen	
of the screen		
Show in	The customizable form is located in the whole screen	
Monopoly	When monopoly is checked, as long as this window is called, no other components in the screen	
	can be clicked except the components in this window. When this window is closed, other	
	components can be clicked normally, which is usually used in conjunction with the "close	
	button"	
Close button	After checking, the user does not need to do the close button alone, and there will be" ×" close	
	button	

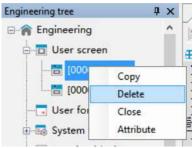
3-2-2. Copy paste

- 1. Select the screen to be operated, right-click and select copy.
- 2. Select the user screen in the project area, right-click and select "Paste" to complete the operation.

Engineering tree	ąχ	[0			
Engineering			Engineering tree	ą	×
User screen		⊕	Engineering		^
[00001]Pa	Сору		- User screen	WAYNE A SHARE	
User form	Delete		[00001	Add to	
😨 🌄 System form	Close			Paste	
E Function bloc	Attribute			gez	-

3-2-3. Delete

Select the screen to delete, right-click and select Delete to delete the screen.



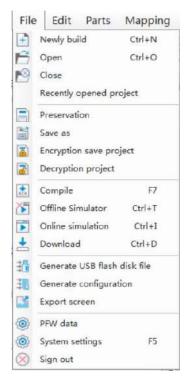
The operations of adding, copying, pasting and deleting "user window and function block" are the same as above.

3-3. Menu

The menu bar includes 7 groups of menus: File, Edit, Parts, Drawing, Tool, View and Help.

3-3-1. File

The file includes various operations on the project, such as new, open, close, save as, download, simulation, encryption save project.



1. New

Create a new program, set the display and communication equipment, press Ctrl+N, and refer to section 2-1 for details.

2. Open

Click File/open or open icon in the tool bar, or press Ctrl+O, it will show below dialog box, select a project and click Open or double-click the project directly.

3. Close

Click File/close or close icon in the tool bar to close the project. But it will not exit the software. If the project is not saved, the following prompt window will pop up.

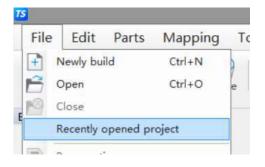
	Friendly tips
	The project has been modified. Do you want to save it
	Yes No Cancel
8	Save the project. Then exit project editing
)	Do not save. Then exit project editing

4. Recently opened project

Return to screen editing status

Yes No Cancel

If the user has opened or edited some projects recently, the software will automatically remember the path and name of these projects, so that the user can find these projects more quickly without having to refind the project path. Move the mouse to File/Recently Opened Project, and the recently opened project will be displayed on the left. Click to open the corresponding project.



5. Save

Click File/save or save icon Preservation. Open the save dialog box, select the save path, enter the project name, and click Save.

In the process of editing the project screen, the user should save at any time to avoid data loss.

6. Save as

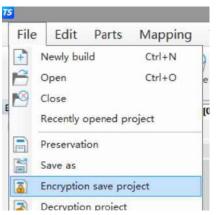
This operation is different from Save. Save uses a new file to replace the old one based on the original project. Save As saves the current project as a new project. After the Save dialog box pops up, select the storage path, enter the file name, and click Save.

7. Encryption save project

When the programmer needs to protect his own program and must give the program to the customer to download, the programmer can choose to encrypt and save it. After the file saved in this way is opened with editing software, the content of the screen cannot be seen, and no parameters can be modified. Only downloading and simulation can be done.

Operation steps:

① Open the project to be encrypted and click File - Encryption Save Project.



(2)After clicking, the pop-up window for entering password will appear, please set the encryption password (the password cannot be less than 6 digits)

请输入密	码			x
密码:	•••••			(长度不超过32字数)
		确定	取消	

(3) After entering the password, set the save path of the encryption project. The file default is the xep format, which cannot be changed

(4) Open the path where the encryption project is located, and you can see an encrypted file ending in xep

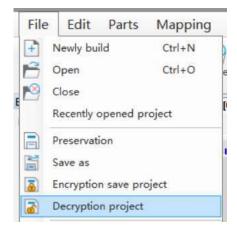


(5) The encrypted file can only be opened for decryption, download, online simulation, offline simulation, compilation and other operations, and the project content cannot be modified in any way.

8. Decryption project

It is used to decrypt the encrypted project. The decrypted project can be edited and downloaded normally. Operation steps:

(1) Open the encrypted project. Refer to "7. Encryption save the project" above for the operation steps. Click File - Decryption Project.



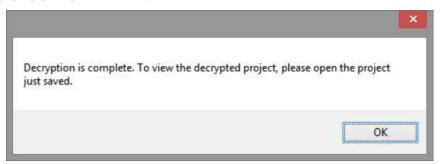
(2) Enter the password set during encryption and click OK.

输入密闭	吗			×
密码:	•••••			(长度不超过32字数)
		确定	取消	

③ Select the save path of the decryption project and click Save to generate a project that can be edited and downloaded normally.

(4) There will be a pop-up prompt after saving successfully.

*



(5) Open the save path of the decryption project. After the project is opened, it can be edited or downloaded normally.

9. Compile

Click File/compile or Compile. The system will check whether all control properties in each screen and window have errors. Compilation is a prerequisite operation for simulation and download. When you click Online Simulation, Offline Simulation or Download, the system will automatically execute the compilation operation. When compiling, a pop-up window as shown in the left figure will pop up in the center of the software, and the compilation information and results will be displayed in the output window

and the second se
t ErrorlList
pile window25014 pile window25900 per of compiled resource files:32
pilation succeeded. pr Owarning ONews

10	0.001	• • •
10.	Offline	simulation
	· · · · · · · · ·	01111001001011

In order to facilitate the user to debug and edit the screen, simulate the actual operation of HMI and PLC on the computer (no need to connect PLC). Click File/offline simulation or offline Simulator to perform offline simulation.

11. Online simulation

Simulate the actual operation of HMI and PLC on the computer to realize the monitoring function of the lower computer equipment (PLC must be connected to the computer). Click File/online simulation or perform online simulation.

12. Download

Realize downloading the editing screen data to the HMI, click File/download or press Ctrl+D to perform downloading function.

For detailed operations of offline simulation, online simulation and download, please refer to chapter 2-3, 2-4 and 2-5.

13. Generate USB flash disk file

Export and store the project as dat file. The file name can be customized, but the suffix must be Dat, copy the generated file to the root directory of the USB flash disk, connect the HMI with the USB flash disk, and download the file directly to the TS series HMI.

Operation steps:

(1) Click File/Generate USB flash disk file, it will show path selection dialog box. Click . , select the path to be saved in the pop-up window, and enter the name of the USB flash drive project file to be saved. Please note that the file must be saved as .dat.

	● ⑥ ⑧ 王 王 14 男#% 20112011	×
2 control to the	← → ・ ↑ ■ 20地版 →	 〇 在世电脑中微素 ク
1	(IIIC) *	8: • 0
· 56	> ▲ WPS周盘 ~ 文件夹 (6)	
HUM2N	× • ■ 此电脑	四月 四月
导士U 素透現 長出文件語径	→ Q 税利	THE THE
	···· 西 面片 同文指 同文指	#13
* × 5	> ± 下 > ❸ 重乐 ~ 设备和驱动器	(5)
	文件系(N):	
	保存安型([]): dət文(牛 (*.dət)	
	> 静藏文件央	保持(5) 取消

②After selecting the path, click the "Export" button.

Export file path	C:\Users\TXB\Desktop\1111.dat			
		HV1	~	Export

Note: HV1 is an old version and HV2 is a new version. Only HV1 can be selected for the old version of the touch screen, and only HV2 can be selected for the new version of the touch screen. Otherwise, the firmware will be prompted as incorrect. Please refer to 7-3 for the hardware version of the touch screen currently used Device information.

(3) If the export is successful, you will be prompted as shown in the following figure, and a file will be generated in the saved path. The file type must be .dat (do not modify the file suffix). Copy the file to the root directory of USB flash drive for later use.

	×
Export s	ucceeded
ſ	OK

(4) Insert the U disk into the U disk port of the HMI, and the "U disk update" pop-up window will pop up in the upper left corner of the HMI. Click "Update HMI Project", and the file selection window will pop up, as shown in the following figure on the right. Select the project to be imported in the list, and click "OK" button at the lower right corner. The system will automatically import the project file, and the progress bar of the import project will be displayed on the screen. After the import is completed, remove the U disk.

U盘更新	< ◎ 选择更新文件 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
	Show: [*,dat Favorites V 💽
更新Hmi工程	/ System Volume Information/ database/
	导出工程.dat
	4
	Preview Show hidden files
	Filename: //mnt/udisk/导出工程.dat
	OK <- Cancel

(5) Import is successful.



The "Allow project upload" set in the software download interface does not take effect after the project is updated with a USB flash drive, that is, the project updated with a USB flash drive is not allowed to upload.

14. Generate SCADA

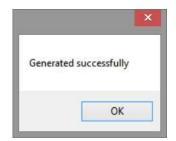
The SCADA generation let the computer replaces the HMI and communicates directly with PLC and other external communication devices. The difference between its function and the online simulation function is: when the online simulation function is implemented, the user needs to install TouchWin Pro editing software. The user does not need to install TouchWin Pro editing software when the SCADA is running.

Operation steps:

- (1) Click File/generate SCADA
- (2) Set the saving path and file name

	Export Scada	
option Clear alarm record Overwrite recipe data	 ✓ Clear operation record ✓ Clear PFW/SPFW data 	Clear data acquisition
file name scada test		
保存路径 C:\Users\TXB\	Desktop	
		Export

(3) Generate SCADA is successful.



(4) Generate four files in the saved path, click the SCADA name .exe file, and configure the communication port to run normally.

	Run
0	Hmi.Simulator.dll
6	Hmi.WPP.dll
E	SCADA.exe

🤐 通讯口配置		- 0	×	
设备端口号	本机端口号	配置结果		
	COM11	(COM1,COM4)		
	-	2022		
	-			
		2544351.074		
	-	~~~		
		<u></u>		
保存函置		确定 10	a]	
· working				



15. Export screen

The function of screen export is to save screens in the form of pictures or PDFs for document writing or picture preview. The name is picture name+ID. Click the "File" menu and select "Export Screen", and the following window will pop up:

		Ехро	ort screen			×
Export Type	Picture	re				
Storage location						- 222
Format						
Selectio	PNG	~				
п						
Width	800	•	Height	480	-	
Export						
					Ехро	ort

Export type	Select the format of screen export. The default export is picture format, or PDF format can be
	selected as required. After selection, the screens in the project will be exported in the form of
	pictures or PDF
Screen	Select the screen to be exported. You can select a screen or window to export, or select all to
selection	export
Format	Select the export format. If the export type is a picture, the optional formats here are png, jpg
	and bmp. If the export type is PDF, there is no optional format here
Storage	Set the export path, click "Select Folder", and set the target path in the pop-up window. The
	selected image or PDF will be saved in the path set by the user
Size	When selecting an image for export type, you need to set the width and length of the generated
	image. The default is the display size of the selected HMI model for the current project. You can
	customize the width and length of the exported image according to your needs

After setting the parameters, click Export. The system will automatically perform the export task. If the export is successful, the export successfully window will pop up.

16. PFW data

This operation is to modify the system parameters of the project. After the program is downloaded again, the PFW data is initialized. Generally, when the recipe function needs to set the initial value, it can be modified after being downloaded to the HMI.

■ Set PFW address range

	P	FW data	8	>
PFW	Start	0	End	2999999
PFW[0] - F	PFW[2999999]	Ť.		
Add to	Delete	M	odific	Modify

Start PFW	Set PFW register data starting address
End PFW	Set PFW register data end address
	The terminal PFW address is not greater than the number of system settings -
Add to	monitor - parameter – number of PFW After setting the start and end addresses, click Add to list the data segments in the data setting list
Delete	Delete the added data segment. After selecting it, the row becomes blue. Click Delete to delete it
Modific	When the start/end address needs to be modified, select the data segment, modify the address
	range, and click Modific.
	When the set data segments conflict, the following prompt will appear.
	Tips × Data range conflict!
	ОК
Modify	Modify the register value within the set address range
Set PFW	Select the PFW data segment, click Modify, or double-click the PFW data segment to open the data
value	setting window as shown in the following figure

	-	PFW data 🦳 🗖 📕					- 🗆 📘				
		+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
	PFW[00000600]	0	0	0	0	0	0	0	0	0	0
	PFW[00000610]	0	0	0	0	0	0	0	0	0	0
	PFW[00000620]	0	0	0	0	0	0	0	0	0	0
	PFW[00000630]	0	0	0	0	0	0	0	0	0	0
	PFW[000000640]	0	0	0	0	0	0	0	0	0	0
	PFW[00000650] PFW[000000660]	0	0	0	0	0	0	0	0	0	0
	PFW[00000670]	0	0	0	0	0	0	0	0	0	0
	PFW[000000680]	0	0	0	0	0	0	0	0	0	0
	PFW[00000690]	0	0	0	0	0	0	0	0	0	0
	PFW[00000700]	0	0	0	0	0	0	0	0	0	0
	PFW[000000710]	0	0	0	0	0	0	0	0	0	0
	PFW[00000720]	0	0	0	0	0	0	0	0	0	0
	PFW[00000730]	0	0	0	0	0	0	0	0	0	0
	PFW[000000740]	0	0	0	0	0	0	0	0	0	0
	PFW[00000740] Display format Display format Display format		0 Set 0	0 Set FF	0		0			0 Determine	0 Cancel
Decimal: d	Display format	kadecime	Set 0	Set FF	C						1-
	Display format Decimal syste Here	xadecime [] mal fc	Set 0	Set FF	0						1-
Hex: data d	Display format	xadecime mal fc at	Sa 0	Sec FF	0						1-
Hex: data of Set 0: set a	Display format Display format Display format Display in decin display in hex form	mal fo at g segr	sa 0 ormat ment	Set FF t to 0							1-
Hex: data of Set 0: set a Set FF: So	Display format Display format Decimal syst Decimal syst Hereit Decimal syst Hereit Decimal syst Hereit Display in decimal display in hex format Il data in the setting	mal fo at g segr ting s	sa 0 ormat ment	Set FF t to 0							1-

17. System settings

This operation is to modify the system parameters of the project.

Parameter

Click "Parameters" to directly set the startup screen, screen saver, mouse cursor and sound parameters.

Paramete Monitor Interactiv User righ Clock Equipme Engineer [Screen] Startup 6 ~ [Screen saver]		ttings	System set			
Startup 6 v [Screen saver] Vaiting time 1 v Waiting time 1 v Minute O Display v v Image: Turn off the backlight v Value Image: Hide mouse cursor Mouse 20X20(P) v		ngineer	ck Equipme En	User righ Clo	nete Monitor Interacti	aran
screen Screen Screen saver Screen saver Screen saver Screen saver Screen saver Screen saver Screen					creen]	- [5
Waiting time 1 V Minute Display Turn off the backlight [Mouse cursor] Hide mouse cursor		~			. 0	
 ○ Display ○ Turn off the backlight [Mouse cursor] ✓ Hide mouse cursor Mouse 20X20/(𝔅) 					creen saver)	[Se
Turn off the backlight [Mouse cursor] Hide mouse cursor 20X20(P)			Minute	· · · · · · · · · · · · · · · · · · ·	aiting time 1	Wa
[Mouse cursor] I Hide mouse cursor Mouse 20X20(座)		~			Display	0
✓ Hide mouse cursor Mouse 20X20/⊞)					Turn off the backligh	۲
✓ Fide mouse cursor 20X70(響)					louse cursor]	ſ٨
		2	20X20(黑)		Hide mouse cursor	1
[Sound]					ound]	[\$
Turn off the buzzer					Turn off the buzzer	

Screen	Input the startup screen number, that is, when the HMI is powered on after downloading the
	program, the screen that runs first is usually the main screen of the program or the screen with
	the highest frequency of use
Screen saver	This function is an automatic measure when the HMI is not triggered for a long time. After a
	period of no trigger operation, the touch screen can turn off the backlight or jump to the
	specified screen according to the settings
Waiting time	Select time or no screen saver according to user requirements

Display	When the time conditions are met, jump to the target screen
Turn off the	Turn off the backlight when the time conditions are met
backlight	Note: Only one operation can be selected between turning off the backlight and display screen
Hide mouse	When checked, the mouse cursor will not be displayed when the touch area is clicked
cursor	
Mouse cursor	Set the size and color when the mouse cursor is displayed. The color can only be black or white
size	
Sound	It is used to set whether the screen will emit sound when the HMI is working normally. The
	default is that there is sound output. If "Close buzzer" is checked here, no sound will be emitted
	when the HMI is working, whether the screen is clicked or the alarm is triggered

Monitor

Modifiy the HMI model and display direction.

	System settings		
aramete Monitor Interactiv User ri	gh Clock Equipme Engineer		
[Model]			
Mo T\$5-700-F	Horizontal - normal	O Horizontal - rotate 180) degrees
del TS5-700-E V	O Vertical - rotate 90	🔿 Vertical - rotate 90 de	grees
[Description]			
Display model : TS5-700-E			^
Screen size : 7 🕁			
Resolution : 800 x 480			
Colour:1677万			
Brightness : 200			
USB_A:1			
COM1: RS232/RS485			
COM2:RS232/RS485/RS422			
Ethernet:1			
SD卡:无			~
[Zoom mode]			
Constant O Equal property	ortion		
◯ Small ◯ Large prop	ortion		
Component width and height u	nchanged		
Parameter			
	-		

Model	Display the current HMI model and display direction. If you want to modify the display model,
	you can click OK to take effect after selecting a new display model and setting the display
	direction correctly. The display direction defaults to normal horizontal display. In order to adapt
	to various occasions, we provide the options of 180° rotation, 90° clockwise rotation and 90°
	counterclockwise rotation. The rotation options are appropriate according to the actual use
	situation. (The default is horizontal display. If it is switched to other display directions, it will
	automatically jump to the calibration screen after downloading, requiring the user to calibrate
	again)
Description	Display the current screen size, resolution, color, brightness, USB port, COM port and other
	information
Zoom mode	When changing the display model, the proportional relationship between the width and height
	of components in the screen and the display size

Constant	Component width and height remain the same			
Equal	The width and height of components are scaled according to the width and height of the display			
proportion				
Small	The component width and height values are scaled according to the small value of the display			
	width and height ratio			
Large	The width and height of components are scaled according to the large value of the width and			
proportion	height ratio of the display			
Parameter	Set the number of system registers			
	Number of PSW: 10000 Input range 1-10000 Number of PFW: 3000000 Input range 1-3000000 Number of PSBs: 10000 Input range 1-10000 Confirm Cancel			

■ Interactive

It mainly realizes the attribute relation between the screen and the register. Click Interact, and the settings shown in the following figure appear:

				Sy	/stem settings
ramete N	Monitor In	teractiv	righ	Clock Eq	quipme Engineer
Cont	rol picture	exchange			
Equip	本地设备			~	Set
Addre	PSW	~	0	0	
Data type	Word v	Unsignec 🖂	9.75	ignation	
Dong	et current	screen num	har		
		screen nunn	bei		
Equip	本地设备			×	Set
Addre	PSW	14	0	0	
Data	word 😔	Unsignec 🗸	et doc	ignation	
type					

Control picture	Jump to the screen according to the value of the current register. If the register value is 10, it
exchange	means jump to the screen No. 10. Use the PLC register to control the screen switching. It is
	recommended to use the rising edge or falling edge signal for the triggering conditions.
Report current	The screen number of the current operation screen is displayed. If the current operation
screen number	interface is screen 7, the register will display 7
Equipment	Current equipment port for communication
Set	Click to enter address setting, and select to use system register or user-defined label in the
	pop-up window
Address	Set the object type and address of the current register
Data type	Set the data type of the register selected in the previous item. Byte represents 8 bits, Word
	represents 16 bits, DWord represents 32 bits, and DDWord represents 64 bits. In the second
	box, you can select decimal, hexadecimal, unsigned number, floating point number, etc
Indirect	The current register address changes with the indirectly specified register value, that is, Dx
designation	[Dy]=D [x+Dy value] (x, y=0, 1, 2, 3)

■ User rights

The user authority function plays the role of engineering and data protection to improve program security. Authority settings are usually used for hiding and encrypting parts or pictures. Relevant operations can only be performed when the password is correctly entered.

		Syste	em settings			
aramete N	Ionitor Interactiv	Jserright Clock Equi	ome Enginee	d		
vumbe	User name	Default password	1	User rights	Flag bit	
0 at	imin	666666	管理员			
	Dele		dd to		dify	
	Dele	10e - A	100 10	stic	iany	
				Determine	Cancel Applic	inexant.

There are 30 permissions from "Permission 1 to Permission 30" set here, each of which is an equal level. Click the "Add to" button to add a user when using it. When adding a user, check the range of permissions that the user can operate, as shown in the following figure. After entering the password of the user "User1", you can operate the password protection functions of Permission 1, Permission 2 and Permission 3. At the same time, the corresponding flag is ON.



Password input range: 1-8 digits and characters.

User	User1	Password 12	3456	
 elect all 	Scope of authority		Describe	
~	权限1	权限1		1
1	权限2	权限2		
¥	60001	· 权限3		
	权限4			1
	权限5			
	权限6			
	权限7			
	权限8			
	权限9			
	权限10			
	权限11			
	权限12			1
	权限13			
	权限14			
	权限15			
	权限16			
	权限17			
	权限18			
	权限19			
	权限20			
	权限21			
	权限22			
	权限23			Ĩ
	权限24			
	权限25	-		
	权限26			
	权限27			
	权限28			
	权限29			
	权限30			
		Determine	Cancel	Application

If multiple users need different permissions, you can add users according to the above operations and select corresponding permissions. By default, the project has an administrator permission of Admin. The administrator permission level is the highest, and all permission protection functions can be operated.

Here are two ways to log in:

(1) Call the user login interface through the function key See the following figure for operation steps:

Action Pre	ess Status	~	
🗌 Start			
Functions		0	Optional functions
调用	窗口[25001]		设置线圈
		Add	设置数据
			四则运算
		Delete -	数据传输
			画面切换
			福用窗口 关闭窗口
12	Call w	indow	× CSV
Basic Attributes	Security settings		CSV
Switch	[25001]User logi	in v	四方
0.0-0-0-0	1		配方
O Pop up			调用
			1) ED
🗌 Pop up t	he password windo	w automatically. (If th	e target
	Determine	Cancel A	oplication
	Determine	Cancer	opineation

Click the function key to call up the user login window (see the figure below), select the user name to log in, enter the password correctly, and the lower left corner will display the login successfully, if the password is entered incorrectly, the login failure will be displayed.

Take user1 as an example.

Select the user name of User1 from the drop-down list, enter the correct login password 123456, and click the "Login" button to display that the login is successful (see the left figure). At the same time, the password will be cleared. After the login is successful, you will have permissions 1, 2, and 3 at the same time. To log out, also select User1's user name in the drop-down list, enter the correct login password 123456, and click the "logout" button to display that the logout was successful (see the right figure). At the same time, the password will be cleared, or you can quickly log out by turning the flag position OFF. After the logout is successful, the user will have no rights (1, 2, 3).

▲ 用户登录	× 1	戶登录		3	×
USEF 用户名 User1	<u>o</u> user	用户名	Jser1	<u>©</u>]	
passwo rd #	passv	vo ^{南d码}			
login successful		logout successful	29,223	赶出	
查录成功	田田 ogout	注销成功	<u>®</u> ≇ login	logout	

(2) Select "When the user has no permission, a prompt window will pop up" Taking the indicator button as an example, the settings are shown in the figure below

	Indicator button	
Basic prope Appearance F	unction bi Security set Position	
Operation confirmation	on delay	
Confirmation bef	fore	
🗌 Key delay		
Display control		
Enable		
Enable control		
🗌 Enable		
User rights		
	vill be cancelled after the operation is completed	
When the user ha	as no permission range, a prompt window will pop	o up
the second se	nent when the user has no permission range	
Required user	夜服2 ~	
		-

Download to the screen, click the indicator button, and the following window will pop up

权限提示	×
▶ 揭作纽别声	您没有此权限
	NEW X H HUNXPR
用户登录	确定
user login	ok

Click "User Login" to enter the user login interface. Refer to User1 login introduction above for the operation steps. Click "OK" to close this pop-up window

Clock

The HMI is equipped with the clock function as standard, which is mainly used to set the clock source and transmit the touch screen clock to externally connected PLC and other devices.

Syster	n settings		2
aramete Monitor Interactiv User righ Clock Equip	neiEngineer		
 Disable clock setting 			
Clock source			
HMI internal			
O Peripheral			
Write HMI clock to external device			
Write			
mode			
Clock display format Decimal system Hexadecimal			
Number of synchroniz			
Equipment	Register		
	Determine	Cancel	Application
	Determine	Contect	Application

Disable clock	If selected, the HMI internal clock cannot be modified, which is used for installment payment and other time encryption projects to					
setting	prevent the clock modification from affecting the function					
Clock source	To set the clock source of the HMI, you can choose to use the HMI internal clock or import from an external device. The default is the HMI internal clock. When you select an external device, the following settings will appear Clock source O HMI internal O Decimal system O Hexadecimal Addr PSW0					
Clock display	When setting to read from an external device. You can select decimal or hexadecimal format.					
format	For example: when HMI communicates with Xinje PLC, if you choose to read the clock from the external device, and Xinje PLC					
	clock format is hexadecimal, so the clock display format here should also be hexadecimal.					
Address	Set the first address of clock reading, that is, read the time from the set address, and set it as the time of HMI. The address requires					
	that year, month, day, hour, minute and second each occupy a single word (16 bit) register, excluding week. For example, if the					
	address is set to D0, the values of 6 registers D0~D6 will be read from D0, which will be used as year, month, day, hour, minute and					
	second in turn					
Write mode	After checking "Write HMI clock to external register", you can set the HMI clock export mode. You can select continuous, trigger or					
	cycle. The default is continuous, that is, every second change can be written to the external address in real time. When you select					
	trigger or cycle, you need to set the transmission conditions, as shown in the following figure. Note that when the writing mode is					
	cycle, the minimum cycle cannot be less than 100 milliseconds.					

	 ✓ Write clock to peripher Write mode Trigger Read PSB0 ✓ Write clock to peripher Write clock to peripher 	✓ Mode Rising edg∈ ✓
	Cycle 1	 ✓ 0.1 secor ✓ ✓ Register PSW0
Number of	Customize the number of HMI	clocks written to external devices. If the touch screen is connected to multiple devices at the same
synchronization	time, the number of multiple de	vices can also be set here. The number of rows corresponding to the number set here will appear in
	the table below, and the first ad	ddress corresponding to each device needs to be set in the table below. The same as the external
	reading above, when writing to	the external device, there are 6 registers, including year, month, day, hour, minute and second,
	excluding week. Example: If the	ne address is set as D0, D0~D5 will display year, month, day, hour, minute and second in turn,
	occupying 6 register addresses.	
	Number of 2	
	Equipment	Register
	·····································	设置
	设备1	

Equipment

It mainly sets the communication parameters between HMI and PLC and other external equipment

	COM1	信捷				~
COM2		信捷 XC系列				
	Net0	信捷 XD/XL/X	6茶列(Modbus RTU	1)	
Jerial	Equipment name	New equips	Port	Fort type	Conmunication	Station
0	本地设备	本地设备		2		0
1	信捷 XD/XL/XG系列	值捷 XD/XL/XG	1	RS232	19200,8,偶校验,1	1

Equipment name 7 Equipment type 7 Port ID 7 Port type 7	the name cannot be duplicate The protocol name The COM port where the device is lo set The interface type selected when cre Net	When multiple devices are added to the same serial po- pocated is automatically generated by the system, no need eating a new device is generally RS232, RS485, RS422					
name 1 Equipment type 7 Port ID 7 Port type 7	the name cannot be duplicate The protocol name The COM port where the device is lo set The interface type selected when cre Net	ocated is automatically generated by the system, no need eating a new device is generally RS232, RS485, RS422					
Equipment type 7 Port ID 7 Port type 7	The protocol name The COM port where the device is lo set The interface type selected when cre Net	eating a new device is generally RS232, RS485, RS422					
Port ID Port type	The COM port where the device is lo set The interface type selected when cre Net	eating a new device is generally RS232, RS485, RS422					
Port type	set The interface type selected when cre Net	eating a new device is generally RS232, RS485, RS422					
Port type	The interface type selected when cre Net						
• •	Net						
		d rate data hit parity mode stop hit and other parameter					
-	When it is on the serial port, the bau	d rate data hit parity mode stop hit and other parameter					
Communication		When it is on the serial port, the baud rate, data bit, parity mode, stop bit and other parameters					
protocol	are displayed here.						
	When it is on the Ethernet port, the IP address and port number of the device are display						
1	here. Double click to modify the para	meters.					
	Communication settings	Communication settings					
	Essential information Equip 信題 XD/XL/XG系列(Modbus RTLL)2	Essential information Equip (西語 XD/XL/XS家紀(Modbus TCP)					
	Equip 信捷 XD/XL/XG系列(Modbus RTU)	Equip 信徒 XD/XL/XG系列(Modbus TCP)					
	Serial communication information Interfa RS232 v	Network port communication information					
	Baud 19200 v Data bit 8 v	End 502 Station 1					
	Check Parity check v Stop bit 1 v Statio 1	Timeout and packaging parameters					
	Timeout and packaging parameters	Communi 1500 Retry 3 Delay 0 Interval 0					
	Communi 1000 Retry 3	Maximum 120					
	Delay 0 Interval 0	Communication status register					
	Maximum 120 \$ Maximum 120 \$	PSW 100 Do not export communication status i					
	Do not export communication status i						
		PSB 100					
		Do not use communication mask addr					
	Advanced	Advanced					
Station no.	Device station number. When multip	ple devices are added to the same serial port, the stati					
J	number cannot be duplicate	-					

Project

This item is used to set the name, author and comments of the current project. If the current project has been saved, the name item displays the name of the project and cannot be modified.

	System settings	
Paramete M	onitor Interactiv User righ Clock Equipme Engineeri	
Name:	工程	
Author:		
Remarks:		

16. Sign out

This function is used to exit the TouchWin Pro editing software, which is different from the "Close" operation. If the user does not save the project, a save window will pop up to avoid losing the operation

3-3-2. Edit

The Edit menu is mainly used to edit components. The corresponding shortcut keys can be found in the toolbar for the functions in editing, as shown below:

Ed	it	Parts	Mappin								
	Cop	у	Ctrl+C								
X	She	ar	Ctrl+X								
	Past	te	Ctrl+V								
T	Dele	ete	Del								
45	Rev	oke	Ctrl+Z								
€	Rec	overy	Ctrl+Y								
		kup t substi	Ctrl+F tution	4) Revoke	C* Recovery	Copy	Shear	Paste	Delete	() Lookup	
Сору		operat	the target c tion and the cu operation, the c	itting opera	ation is that the	ne origin	al comp	onent n	o longer		•
Cut		Select	the target obje	ect, cut it to	the clipboard	l, shorcu	t keys C	trl+X			

Paste	It is the subsequent operation of "Cut" and "Copy". After cutting or copying the object
	component, execute the "Paste" operation to successfully transfer or copy the target component,
	shorcut keys Ctrl+V
Delete	Delete target object, shorcut keys Delete
Undo	Undo history operation, shorcut keys Ctrl+Z

 Redo
 Restore the history operation that was undone, shorcut keys Ctrl+Y

Lookup

This function is used to find and replace addresses in the project.

1) Lookup

It is used for address search in the project. Enter the target address and click "Search" to display the screen, control ID and address number of the target address found in the lower blank area (as shown in the right figure below).

		Find at	nd replace		*			Find and	replace		
0	Lookup		01	Replace		3	🔾 Lookup		🖲 Rep	lace	
Lookup Search range	全部 V ● Bit address O Word		rd	Looku Searc range		全部 ● Bit address		v ○ Word			
Equipme				v 🗌 System register	Equipme	本地设备	·		→ 🗌 System register		
Address type	PSB	~		E cu	Custom label	Address	Address pcp		v		
Exten	o 🗟					🗌 Exten	0				
Format (ra	ange) : DDDD[8	包围:0 - 9999]				Format (r	ange);DDDD[范	围:0~9999]			
Address type Address	P28		Address Find next		rstem register Istom label Replace all	Replace Equipme nt Address type Address Format (r	D 0	tent:0-16777215]	tion ober Idress	System registe Custom label Replace Replace	
				11			位置		B称	tit,tit	
							(00001)以回1 :[00001]页面1	LBO		PSB:0 PSB:0	
			Determine	Cancel	Application	L		D	etermine	Cancel Application	

Look up	Select the search range. You can select a screen/window, or search in all the screens/windows.
search range	After selection, you will search within the selected range
Bit address	Set the search target as bit address
Word address	Set the search target as word address. Please note that only one of word address and bit address
	can be selected
Equipment	Select the name of the device to be searched, which can be selected from the local device (HMI
	internal) and the newly added devices in the COM port and Ethernet port devices
Address type	Select the address type. The address type here will change with the bit address or word address
	selected in the above search range. If the bit address is selected above, the address types displayed
	here are all bit address types. If the word address is selected above, the address type displayed
	here is the word address type.
Range	Set the detailed address number or address range to search. If "Range" is not checked, you only
	need to enter the address number to be searched in the rear input box, such as 0x0 under the
	modbus address; If "Range" is checked, two input boxes will appear. Enter the start address in the
	first input box and the end address in the second input box, such as 0x0~0x10. When the system
	performs the search task, it will search in 0x0~0x10, including the first and last addresses
System	After checking, the address can only be selected from the HMI system address, the device must
register	select "local device", and the specific system register name must be selected from the address
	type
Custom label	Select the address to find in the customized address label

2 Replace

It is used to replace the address used in the project. It is usually used to change the address. The replacement needs to be used together with the search, and will be replaced in the found address. During operation, you need to first set the target address to be replaced in the search, and then set the replaced address in the replacement. Click "lookup". If you only need to replace one or more of them, you can click to select the control to be replaced in the search results, and click "Replace" to replace the selected control address with a new address. If you need to replace all controls, you can click Replace All to replace all the found controls with new addresses.

It should be noted that when "Range" is checked in the search, when using range search, an "Address Offset" option will appear in the replacement, as shown in the left figure below; After checking, the location of the original address will become "offset", as shown in the right figure below:

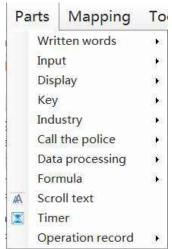
	Find a	nd replace	×			Find and rep	place	
C	🔿 Lookup	Replace	e		🔿 Lookup		Replace	
Lookup Search range	全部 ● Bit address	✓ ◯ Word		— Lookup — Search range	全部 ● Bit address		V (Word	
Equipme nt	本地设备		System register	Equipme nt	本地设备		v	System register
Address type	PSB v		Custom label	Address type	PSB	~		Custom label
🗹 Exten	0	~ 0 🚊		✓ Exten	0	÷~0	ŝ.	
Format (ra	ange) : DDDD[范围 : 0 - 9999]			Format (r	range) : DDDD[范围:	0 - 9999]		
Replace Equipme nt	本地设备		🛛 🗌 System register	Replace Equipme nt	本地设备		*	System register
Address	PSB v		Custom label	Address type	PSB	*		Custom label
type		- 12-1				Add	ress	
type Address	0	Address		Offset	0	Add		
Address	0 🛊 ange):DDDD[Extent:0-9999]	Address			ange):DDDD[Extent:	<u> </u>		

Case 1: When the range is checked and the address offset is not checked, all the addresses found in the range will be replaced with replacement addresses. If the search target is a-b and the replacement target is c, the replacement result is a-b replaced by c. For example, if the search range is set to 0x0-0x10 and the replacement addresses found will be replaced or replaced with 1x0.

Case 2: When the range is checked and the address offset is checked, there is an offset setting, that is, offset by the set offset in the search range. If the search target is $a\sim b$ and the replacement offset is d, the replacement result is $a+d\sim b+d$. For example, if the search range is set to $0x0\sim 0x10$, and the replacement address type is set to 1x, then if the offset is set to 0, 0x0 will be replaced with 1x0, 0x1 with 1x1, ..., 0x10 with 1x10. If the offset is set to a different value, the analogy will follow.

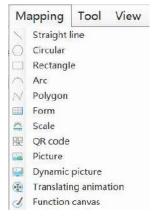
3-3-3. Parts

The component menu is mainly used for component editing, corresponding to the icon in the control window. Please refer to Chapter 4 for details.



3-3-4. Mapping

This item includes basic tools such as straight line, circle, rectangle, arc, polygon, table, scale, QR code, picture, dynamic picture, and function canvas. There are corresponding shortcut icons in the control window, which can be realized through icons in the control window. Please refer to 4-1. drawing for specific use.



3-3-5. Tool

Used for address tag library settings and preferences.

Tool		View	Help			
	Address tag library					
•	Advanced feature settings					
B	Hire purchase					
6	Preferences					
R	Information setting					

1. Address tag library

It is used to customize the address label, and can also view the meaning and address correspondence of the HMI internal system address in the library.

System register

It is used to display HMI system address information for users to view and use.

Sea	rch	Ado	d to Delete I	Delete all Copy	/ Import a	export				
	Label name	Equipment	Station	Address type	Address	Data type	Reading and	Power off	Function	
	用户权限	本地设备	0	SPSB	0	Bit	ReadOnly	False	工程歌以值	
	用户权限	本地设备	0	SPSB	1	Bit	ReadOnly	False	工程默认值	
	剩余存储	本地设备	0	SPSB	2	Bit	ReadOnly	False	工程默认值	
	存储空间	本地设备	0	SPSB	3	Bit	ReadOnly	False	工程戰以值	
	屏保状态	本地设备	0	SPSB	4	Bit	ReadOnly	False	工程默认值	
	背景灯状	本地设备	0	SPSB	5	Bit	ReadOnly	False	工程戰认值	
	下载后第	本地设备	0	SPSB	7	Bit	ReadOnly	False	工程默认值	
	上电后第	本地设备	0	SPSB	8	Bit	ReadOnly	False	工程默认值	
	100ms为	本地设备	0	SPSB	9	Bit	ReadOnly	False	工程默认值	
	1s为周期	本地设备	0	SPSB	10	Bit	ReadOnly	False	工程默认值	
	1min为周	本地设备	0	SPSB	11	Bit	ReadOnly	False	工程戰认值	
	U盘弹出	本地设备	0	SPS8	12	Bit	ReadOnly	False	硬件相关	
	常开线圈	本地设备	0	SPSB	13	Bit	ReadOnly	False	工程默认值	
	常闭线圈	本地设备	0	SPSB	14	Bit	ReadOnly	False	工程默认值	
	U盘插入	本地设备	0	SPS8	15	Bit	ReadOnly	False	硬件相关	
	模块插入	本地设备	0	SPS8	18	Bit	ReadOnly	False	硬件相关	
	MQTTIR	本地设备	0	SPSB	19	Bit	ReadOnly	False	通信相关	
	远程登录	本地设备	0	SPS8	20	Bit	ReadOnly	False	通信相关	

User defined label

	Address tag library	×
● User defined tabel ○ System register○ CodeSys标签	Query mode	
By device Equipment Cuery method: Press picture slash window	Addres	
Search Add to Delete Delete all	opy Import export	
Label name Equipment Station Address th	pe Address Use picture Use control	
		Determine
		Determine

According to personal usage habits, create labels for HMI internal address or device address, and view the usage of each label address in this window. Refer to chapter 5-2 for specific usage methods.

Add to	To add new address tag					
		New address label				
	Variable name Address mode Descripti on Devic 本地设 Addre PSB Data Word type					
	Variable name Set the label name for the address to be created Address mode Select whether the address is a bit address or a word address					
	Description	Set description information for the current address tag, which is optional				
	Equipment	Select the device where the address is located. You can select the local device or				
	Address	the new device for the communication port Set the address corresponding to the current label				
	Data type	Set the data type of the current address				
Delete		fied address label				
Delete all	Delete all added					
Сору	Copy the specif	ied address label				
Paste		e displayed only when there is copied content. It is used to paste the copied				
		the specified location				
Import	Import the addre	ess table in CSV format of the path specified by the computer into HMI				
Export	Export the curre	ently added address label to the specified path of the computer in CSV form				

2. Advanced feature settings

This function is not supported in the current version.

3. Hire purchase

Implement the installment payment of the equipment and lock the equipment for encryption. Refer to chapter 4-7-4. Installments for details.

4. Preferences

This section covers some preferences during project editing, including component address/ID display, grid and backup settings.

Display

It is used to set whether the component ID, address and text color used in the control are displayed.

	Preference setting
	Display Grid backups memory
1	Part
	✓ Show Component ID ✓ Display part address
	Text size 8 V Number of display 3 V
	Text color Show Snap Lines
	Determine Cancel Application
Display	Set whether to display ID on the component. The ID content is fixed and cannot be modified.
component ID	When checked, the ID will be displayed in the upper left corner of the component in the form of
	a corner mark. The difference between checking and not checking is as follows:
	Display the ID: Not display the ID:
Character size	Set the text size of component ID. The larger the value, the larger the text
Display	Set whether to display the component address on the component. If checked, the address used
component	by the component will be displayed in the upper left corner in the form of a subscript. The
address	difference between checking and not checking is as follows
	Display the address: Not display the address:
Text color	Set the display text color of component ID and component address, which is red by default and can be changed according to usage habits
Show	When checked, when the mouse drags the component to move, the alignment line will be
alignment lines	displayed when passing the aligned component. The dotted line box in the following figure
	represents the moving component, and the red line represents the alignment line aligned with
	the top of the button. If not checked, it will not be displayed

■ Grid

It is used to set the grid color and spacing in the screen editing area.

	Preference setting						
	Display Grid backups memory						
	Grid						
	✓ Display grid Lock all components						
	Horizontal spacing 10 🗘 Vertical spacing 10 🗘						
	Vertical spacing 20 Vertical spacing 20 V						
	Grid color						
	Determine Cancel Application						
Display grid	Set whether to display grid in the screen editing area. By default, it is checked, that is, the grid is						
	displayed. If you do not need to display grid, you can uncheck it. Or click 🛄 in the status bar.						
Horizontal	Set the density of the horizontal grid in the screen. The smaller the number, the denser the grid						
space							
Vertical space	Set the density of the vertical grid in the screen. The smaller the number, the denser the grid						
Grid color	Set the color of the grid according to usage habits						
Lock all the	After checking, the component positions placed in all the pictures and windows of the current						
components	project will be locked. After locking, you cannot drag the mouse to move the position, but you						
	can adjust the position by pressing up, down, left and right on the keyboard						

For example, when the horizontal and vertical spacing is changed from "20" to "5", the difference is as follows:

		Sp	oace	: 20)		space: 5
•	•			•	•		
•	•				•		
							· · · · · · · · · · · · · · · · · · ·

Backup

It is used for backup and scheduled saving of project files.

Display	Grid	backups	memory	
Maximum ten	porar	15 (TI	nis <mark>i</mark> tem cannot take e	ffect until
Enable sch	nedule <mark>d</mark> back	ups ackup		
Scheduled b	ac <mark>kup 1</mark> 5	🗘 Minu		
				1
		Determ	nine Cancel	Applica

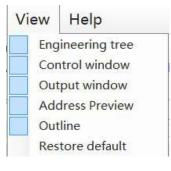
Maximum	Every time a project is saved, a backup file will be generated in the Temp folder of the
temporary files	installation path. When the maximum number of files set by the user is reached, the first
	backup project will be automatically overwritten. Click "Open Backup Folder" at the
	bottom right to view the backup program
Enable scheduled	After starting this item, you can set the automatic saving time in the "Scheduled Backup
backups	Interval" below to prevent data loss. When this item is not enabled, you need to manually
	save the project data

- 5. Information setting
- Download and upload program of PLC and HMI through the TS series HMI
- LAN and WAN VNC function
- Realize MQTT communication with Xinje Cloud, Alibaba Cloud, etc

Refer to chapter 8 for details.

3-3-6. View

The view menu is used to display various tools and columns. The blue box in front of each item name indicates that it is activated, while the box is not displayed, indicating that the item is not activated. Click "Restore Default" to restore the original interface of the software.



3-3-7. Help

Help								
1	About							
2	Help							

About	Version desc	cription and copyright description of HMI editing software
	75	Editing tools for HMI 🚽 🗖 🗾
	— HMI edi	ting tool
	70	Upper computer version : V1.1.2.230301A
		Lower computer version : V1.1.4.230202
		版权所有 (C) 2021-Xinje Electronic.Co.,Ltd
		Detailed Ok

3-4. Tool bar

Toolbars are divided into software toolbars and picture toolbars, which involve some operations on components and pictures. When the mouse moves over relevant components during operation, relevant text prompts will appear. The specific allocation is as follows:

1. Software toolbar: it includes new, open, save, close, download, compile, online simulation, offline simulation and system settings for project related operations. For details, please refer to Section 3-3-1. It is used to undo, restore, copy, cut, paste, delete and search operations related to project editing. For details, please refer to chapter 3-3-2. As well as data sampling, alarm input, formula editing, and operation records for global operation of the project, please refer to chapter 4 for details.

E 6	3	-	19	(*)	C*	. iù	X	. @a	I		*	Þ	6	3	(<u>©</u>)	di.	E	2
Newly build Op	pen	Preservation	Close	Revoke	Recovery	Copy	Shear	Paste .	Delete	Lookup	Download	Online simulation	Offline Simulator	Compile	System settings	Data sampling	Alarm entry	Recipe editing

÷	When the screen editing area is enlarged or reduced, the default size can be restored by				
Full size display	pressing this key				
F_ Arial • 9 •	Set the display font and size of the specified object				
S 0 +	Select different states for multi state controls such as indicators, dynamic text strings, multi				
	state indicators, and buttons				
L 1 +	Select different languages for text display in multilingual label library				

2. Screen toolbar: used to operate the selected component during screen editing. When the tool is gray, it is inoperable.

1	Left aligned, horizontal left aligned
*	Align Center, align Horizontal Center
-	Right aligned, horizontal right aligned
•0	Top alignment, horizontal top aligned
-	Middle alignment, horizontal middle aligned
<u>=0</u>	Bottom alignment, horizontal bottom aligned
₫	Lock: lock the specified component to the position, which cannot be moved by dragging the
	mouse

6	Unlock to move the specified component								
<u>*</u>	Move up one unit, where one unit is the vertical spacing of the grid in the preferences								
Ŧ	Move down one unit, where one unit is the vertical spacing of the grid in the preferences								
 →	Move right one unit, where one unit is the vertical spacing of the grid in the preferences								
←	Move left one unit, where one unit is the vertical spacing of the grid in the preferences								
I	Vertical equal distance, set the vertical spacing of multiple selected components to be consistent								
	Horizontal equal distance, set the horizontal spacing of multiple selected components to be consistent								
i.	Combination								
r	Ungroup								
+D+	Equal width, based on the first selected component, set the width of all selected components to								
	be consistent								
	Equal height, based on the first selected component, set the height of all selected components to								
	be consistent								
Ø	Move the specified part to the top								
8	Move the specified part to the bottom								
đ	Move the specified part to the previous layer								
1	Move the specified part to the next layer								
	Rectangle arrangement, multiple selected components are arranged according to the set								
	rectangle								
25	Point arrangement								
	Rectangle linear arrangement								
0	Circular linear arrangement								
Q	Linear arrangement								
P.	Polyline arrangement								
-									

3-5. Screen editing area

On the project screen editing platform, the user can right-click the selected part as follows:

NET INSTANT INSTANT INSTANT INSTANT	Upper story
Attribute	😰 Bottom setting
Arrangement	🗗 Topping
Locking	
Delete Del	
Copy Ctrl+C	NE 1946 1948 1946 194
Shear Ctrl+X	
Component common	
Batch copy	an fast tast fast tas
	Component common Shear Ctrl+X Copy Ctrl+C Delete Del Locking Arrangement •

Batch copy	Batch copy the selected parts according to certain rules
Component	Perform global common operations on the selected components, and realize special attributes
common	through "component specific"
Cut	Cut the selected part
Сору	Copy the selected part

Delete	Delete the selected part
Locking	The relative position is locked, and the element cannot be moved after operation. The
	movement function can be realized by "unlocking"
Layer	When 2 or more parts are stacked, the display layer of the target part can be adjusted through
	the layer adjustment
Тор	Move the part to the top layer
Bottom	Move the part to the bottom layer
Previous layer	Move the part to the previous layer
Next layer	Move the part to the next layer
Attribute	View or change "Display", "Font", "Color", "Position" and other operations of object
	components

3-6. Function area

You can drag the commonly used window here to switch to use. By default, this is the commonly used address preview and outline.

The address preview is used to view the usage of the device address added in the HMI or the communication port, so that you can intuitively check which addresses are used. Green in the address table indicates used, while gray indicates unused. Click to select an address, and you can see which pictures and controls the address is used in below. Click any component below to get its position. Double click to open the component properties directly.

The outline is used to display the Chinese names and English IDs of all components in the current screen. You can set the lock, unlock, hide and display of components here.

Address	Previ	ew						#	x		
Patter	Wo	rd						¥		Outline	ąχ
Equip	信捷 XD/XL/XG系列(>		信捷 XD/XL/XG系列(>				Outime				
Statio	o 1								£ 💿		
Addre	D							~	1	[00001]页面1	
Addre	0	_	_	_	_	_	_		-	[指示灯按键]-LB0	£ 💿
	C	1	2	3	4	5	6	7	^	[指示灯按键]-LB1	d 💿
000000	00			I.						[指示灯按键]-LB2	6 💿
000000	T .									[指示灯按键]-LB3	f 💿
000000	3752					間間	100			[指示灯按键]-LB4	f 💿
000000	10.00		in.	i.	f					[指示灯按键]-LB5	f
000000	50									[指示灯按键]-LB6	f 💿
000000	5.54									[指示灯按键]-LB7	ff 💿
000000	70	1 111	1			inni	1000	inn			1000 C C C C C C C C C C C C C C C C C C

3-7. Component area

Display components and all components under the drawing menu, they are used for screen editing. For details, please refer to Chapter 4.

3-8. Output window

Display the compilation process and results of the current project.

If the project is compiled successfully, it can be downloaded normally.

If the project compilation fails, "Error occurred in compilation" will be displayed, and the cause of the error will be displayed in the error list, which can quickly locate the problem.

Output window	- 1 ×
Output window Output ErrorlList	
Output window	* # X
Outout ErrorlList	
Output Window Output ErrorIList Error i warning ① News	
Cate Explain	
Cate Explain	

3-9. Status area

Display the current HMI model, COM port communication device, Ethernet port communication device, the coordinate position of the current mouse in the editing screen, the size of the zoom screen editing area, and the control grid display.

Touch screen model: TS5-700-E Net0 : 信捷 XD/XL/XG系列(Modbus TCP)(COM2 : 信捷 XD/XL/XG系列(Modbus RTU))(COM1 : 信捷 XD/XL/XG系列(Modbus RTU) X : 949 Y : 38 🕘 🔍 📗

()	Enlarge the screen editing area proportionally					
Q	Scale down the screen editing area					
	Whether to display grid					

3-10. System setting

3-10-1. Parameter

arameter M	lonitor	Interaction	User perm	i Clock	Device	Printer	Project	
[Screen]								
Startup	100001]Page1			~			
screen	1.11.1.1							
- [Screen sav	erl							
Waiting time	No So	reensaver	~					
O Display					4			
Close bag	cklight							
[Mouse cur	sor]							
Hide Mc	use	Mous	263	X20 (black)	*			
[Sound]								
☑ Turn off	the buz	zer						
[control dis	play]							
Refresh	before a	ommunicat	ion					
Unicode fo	ont]							
Use cust	om text	-	81					
Be careful:	After che	ecking use o	custom font	s, Multiple fo	onts display o	an be select	ed in Chinese	contro

Screen	Enter the startup screen number, which is the screen that runs first when the HMI downloads the
	program and powers it on. It is usually the main screen of the program or the screen with the
	highest usage frequency.
Screen saver	This function is an automatic measure when the HMI is not triggered for a long time. After a
	period of non triggering operation, the touch screen can execute the setting to turn off the
	background light or jump to the designated screen.
Waiting time	Choose a time or choose no screen saver based on user needs.
Display	When the time conditions are met, jump to the object screen.
Close	When the time conditions are met, turn off the background light.
backlight	Note: Only one operation can be selected when turning off the background light and displaying
	the screen.
Hide mouse	When checked, the mouse cursor will not be displayed when clicking on the touch area
Mouse cursor	Set the size and color of the mouse cursor display, and only black or white can be selected as the
size	color.
Sound	Used to set whether clicking on the screen produces sound when the HMI is working normally.
	By default, there is sound output. If "Turn off the buzzer" is checked here, no sound will be

	emitted when clicking on the screen or triggering an alarm when the HMI is working.
Control display	Control loading logic, default not checked to communicate before loading control, checked to
	load control before refreshing data
Unicode font	After checking, users can use a custom Unicode font library. For the fonts needed in the lower
	computer, they can import the text after importing.

3-10-2. Monitor

Implement modification of human-machine interface model and display direction.

arameter M	onitor	Interaction	User permi	Clock	Device	Printer	Project	
[Model]								
23000 I			Ho	rizontal - nor	mal ()	Horizontal	- rotate 180°	
del PC-10	24x768	~	⊖ Ver	tical - rotate	90° C	Vertical - r	otate 90°	
[Description]								
HMI model :	PC-1024	4x768						
Resolving po	ower : 10	24 x 768						
COM1 : RS2	32/RS485	5						
Network inte	erface:1							
[Zoom mode	1							
[Zoom mode Size	1	qual propo	rtion					
[Zoom mode ● Size ○ samil	O E	qual propo						
 Size samll 		arge propo	rtion					
 Size 		arge propo	rtion					
 Size samll 		arge propo	rtion					
 Size samll 		arge propo	rtion					
 Size samll 		arge propo	rtion					
 Size samll 		arge propo	rtion					

ModelDisplay the current HMI model and display direction; If you want to modify the monitor model,
you can click "OK" to take effect after selecting a new monitor model and setting the display
direction correctly; The default display direction is horizontal and normal. In order to adapt to
various situations, we provide options such as rotating 180°, clockwise rotating 90°, and
counterclockwise rotating 90°. Rotate the appropriate options according to the actual usage
situation; (Default horizontal display. If switched to a different display direction, it will
automatically jump to the calibration screen after downloading and require the user to
recalibrate.).DescriptionDisplay parameter information such as current screen size, resolution, brightness, color,
memory, storage, USB port, COM port, etc

7	Willing the main the manifest marked the metic hoteness the middle hold had and the of the						
Zoom mode	When changing the monitor model, the ratio between the width, height, and size of the						
	components in the screen and the size of the monitor.						
Size	The width and height values of the components remain unchanged.						
Equal	The width and height values of the components are scaled according to the display's width and						
proportion	height ratio.						
Small	The component width and height values are scaled according to the small value of the display						
proportion	width to height ratio.						
Large	The component width and height values are scaled according to the large value of the display						
proportion	width to height ratio.						
Parameter	Set the number of system registers and check the range of system registers.						
	Parameter setting ×						
	Number of Input range 1-10000 PSW:						
	Number of PFW: 3000000 Input range 1-3000000 1-3000000						
	Number of 10000 Input range 1-10000 PSBs:						
	Confirm Cancel						

3-10-3. Interaction

Mainly realize the attribute connection between the screen and registers. Click "Interaction" and the settings item shown in the following figure will appear.

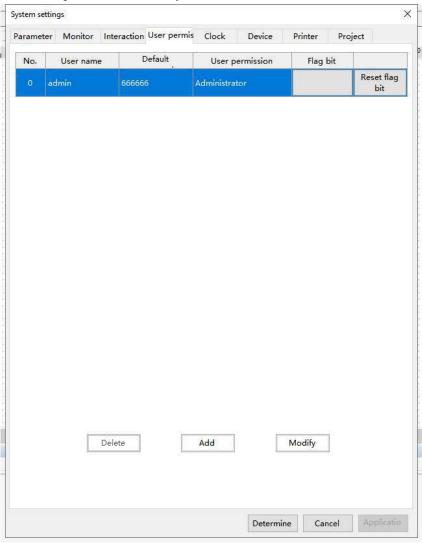
System setting	gs Monitor	Interaction		Clock	Device	Printer	Design	×	
Parameter	l screen ex		User permi	CIOCK	Device	Printer	Project		
Device	Local Dev								
Address	Local Device V Settings								
Data type	Word	∽ BCD	🗡 🗌 Indi	irect					
Repor	t the curren	t screen num ice	ber	***	~ Setti	ngs			
Address	PSW		~ 0		11. A.				
Data	Word	∽ BCD	✓ ☐ Indi	irect					
type									
100 C	ump to th	ne screen b	ased on the	e current	register v	alue. If the	register va	lue is 10, it indic	

exchange	a jump to the screen number 10; Use PLC registers to control screen switching, and assign
	values to the registers to achieve screen switching.
Report the current	Display the screen number of the current running screen. If the current operation interface is
screen number	screen number 7, the register will display 7.
Device	The device port currently in communication.

Settings	Click to enter the address settings, and in the pop-up window, you can choose to use system
	registers or user-defined tags.
Address	Set the current register object type and address number.
Data type	Set the data type of the previously selected register, Byte represents 8-bit, Word represents
	16-bit, DWord represents 32-bit, and DDWord represents 64 bits; In the second checkbox, you
	can select decimal, hexadecimal, unsigned numbers, floating-point numbers, etc.
Indirect	The current register address changes with the indirectly specified register value, i.e. Dx
	[Dy]=D [x+Dy value] (x, y=0, 1, 2, 3), which is generally not used here.

3-10-4. User permission

The user permission function plays a role in project and data protection, improving program security; Permission settings are usually used for hiding and encrypting components or screens, and related operations are only carried out when the password is correctly entered.



• User

Users are set up for their login accounts, and each user can set corresponding account name and password permissions, which are equivalent to a "password lock". Once a user has the corresponding permissions, they have the corresponding "password". A user can have a maximum of 30 permissions,

ranging from "permissions 1 to 30". Each permission is of equal level, and when adding a new user, the user can check the range of permissions that the user can operate according to their needs.

No.	User ID, mainly representing the current user ID
User name	The set user name
Password	The user password
User permission The current user's permission level and the permissions they can operate on;	
Flag bit	The corresponding permission flag for the user is set to ON after binding, and to OFF when
	not logged in. The user's login status can be operated by manipulating the flag.
Reset flag bit	Reset the bound flags.

• Permission

Permissions are operation items specific to the page/control. Taking the screen as an example, permissions are equivalent to a "password lock" for this page. When the user selects the corresponding permission, it is equivalent to locking the corresponding page. When the user wants to jump to the corresponding page or operate the corresponding control, the corresponding user must have this permission, otherwise they cannot operate.

- This collection explains the usage methods for the page/control security section.
- (1) Screen/window security setting

	1	1
Page1		
1		
	Y	
ze		
1024	0	
768	A W	
indow		
None		~
None		~
ermissio	n	
nission	re Permission 1	~
to the	permission range when the	screen / window is clos
	Permission 2	~
	1024 768 None None rmissio	1 1 1 1 1 1 1 1

User permission	Set controlled permission levels; To set the permissions for this component, you need to enter the
range	password for the set permission level before the component can be used normally
Switch to the	After checking, when the screen is closed, the permission changes to the permission below. For
permission range	example, opening this page for the first time requires permission 1. When the screen is closed,
when the	the permission for this screen switches from permission 1 to permission 2, and opening this page
screen/window is	requires permission 2.
closed	

(2) Control related permission settings

User permission			
Cancel permission	after operation		
A prompt window	pops up when th	e user has no permis	sion range
Hide this compon	ent when the user	has no permission so	ope
User permission	Permission1	~	

Cancel permission after operation	After checking, when the operation is completed, the permission is
	cancelled and can be opened without permission
A prompt window pops up when the	After checking, when the permissions are insufficient, a corresponding
user has no permission range	window for insufficient permissions will pop up;
Hide this component when the user	When checked, the control will be hidden when the permissions are
has no permission scope	insufficient;



Password input range: 1-8 digits or character combinations.

• Instructions for use

If multiple users require different permissions, they can be added and corresponding permissions can be selected according to the above operation. The project has an administrator permission Admin by default, which has the highest level of administrator permission and can operate all permission protection functions. The following are two ways for users to log in:

(1) Use function keys to call the user login interface for login

The operation steps are shown in the following figure:

Function	Appearance Se	ecurity setting Loca	ition
Control	ID FB0		
Descript	tion		
Action	Press Status		
Functions	Press Status	~	
-	Window [25001]		Optional functions
Cau	window [25001]	Add	Set coil
		02 205	Set data
		Delete	Arithmetic
		in the second se	Data transmission
			Switch screen
		Move up	Call window
all window			Close the window
			mport CSV
sic Attributes	Security settings		
	Security settings		Export CSV
Switch	Security settings [25001]User login	1 ~	export CSV pload recipe
Switch	1. 3	1	100 00 00 00 00 00 00 00 00 00 00 00 00
sic Attributes Switch	[25001]User login		pload recipe wnload recipe unction call
) Switch	[25001]User login	1 V w automatically. (If the	pload recipe wnload recipe unction call
Switch	[25001]User login e password windo	w automatically. (If the	e e e e e e e e e e e n printing
Switch	[25001]User login		e e e e e e e e e e e n printing
) Switch	[25001]User login e password windo	w automatically. (If the	e e e e e e e e e e e n printing
Switch	[25001]User login e password windo	w automatically. (If the	e e e e e e e e e e e n printing
Switch	[25001]User login e password windo	w automatically. (If the	e e e e e e e e e e e n printing
Switch	[25001]User login e password windo	w automatically. (If the	e e e e e e e e e e e n printing

Click on the function key to call the user login window (as shown in the figure below), select the username to log in, enter the password correctly, and the login success will be displayed in the bottom left corner. If the password is entered incorrectly, the login failure will be displayed.

Using User1 as an example for introduction.

Select the username of User1 from the drop-down list, enter the correct login password 123456, and click the "Login" button to display the login successful (see left figure). At the same time, the password will be cleared. When the login is successful, permissions 1, 2, and 3 will be granted simultaneously; If you want to log out, you can also select the username of User1 from the drop-down list, enter the correct login password 123456, and click the "log out" button to display the successful logout (see the right figure). At the same time, the password will be cleared, or you can quickly log out by directly turning off the flag position. After successful logout, the user will not have the permissions they have (1, 2, 3).

💄 User login		>	 User login 		2
User name	user1	\odot	User name	user1	\odot
Password			Password		
Login successful	Login	Logout	Logout successful	Login	Logout

(2) Check "a prompt window pops up when the user has no permission range"; Taking the indicator key as an example, the settings are shown in the following figure:

sic Attribute Appearance Function bind Security setting 1 Operation confirmation delay Confirm before Key delay Display control Enable Enable User permission Cancel permission after operation Finable User permission User permission User permission User permission	ocation
Confirm before Key delay Display control Enable Enable Enable User permission Cancel permission after operation Cancel permission after operation Hide this component when the user has no permission Hide this component when the user has no permission	
□ Key delay. Display control □ Enable Enable control □ Enable User permission □ Cancel permission after operation ☑ & prompt window pops up when the user has no permission □ Hide this component when the user has no permission	
Display control Enable Enable control Enable User permission Cancel permission after operation A prompt window pops up when the user has no permission Hide this component when the user has no permission	
Enable Enable control Enable User permission Cancel permission after operation A prompt window pops up when the user has no perm Hide this component when the user has no permission	
Enable control Enable User permission Cancel permission after operation Cancel permission after operation L prompt window pops up when the user has no permission Hide this component when the user has no permission	
Enable User permission Cancel permission after operation to prompt window pops up when the user has no perm Hide this component when the user has no permission	
Enable User permission Cancel permission after operation to prompt window pops up when the user has no perm Hide this component when the user has no permission	
Enable User permission Cancel permission after operation For operation t prompt window pops up when the user has no permission Hide this component when the user has no permission	
Enable User permission Cancel permission after operation For operation t prompt window pops up when the user has no permission Hide this component when the user has no permission	
Enable User permission Cancel permission after operation A prompt window pops up when the user has no perm Hide this component when the user has no permission	
User permission Cancel permission after operation Prompt window pops up when the user has no permission Hide this component when the user has no permission	
Cancel permission after operation f prompt window pops up when the user has no perm Hide this component when the user has no permission	
Hide this component when the user has no permission	
User permission Permission2	scope
Det	

Download to the screen, click on the indicator key, and the following window will pop up:



Click "User Login" to enter the user login interface. The operation steps can be found in the login introduction of User1 above. If you click "OK", you can close this pop-up window.

• Use cases

• Operator/administrator/manufacturer type (permission level)

Having multi-level user names, operators can set partial screens, administrators have operator permissions and partial screens, and manufacturers can set all screens;

For the permission binding section of the screen/control: only the operator can operate the screen/control and set it to permission 1; Administrators and manufacturers can set the screen/control to permission 2; Only the manufacturer can operate the screen/control and set it to permission 3;

The corresponding user permission binding is: operator corresponds to check permission 1; Administrator checks permission 1 and permission 2; The manufacturer selects permission 1, permission 2, and permission 3;

■ Single user permissions (independent of each other)

Having independent user names, corresponding permissions can be set and directly bound independently.

3-10-5. Clock

The touch screen comes standard with a clock function, which is mainly used to set the clock source and transmit the touch screen clock to externally connected PLC and other devices.

arameter	Monitor	Interaction User permi	Clock	Device	Printer	Project	
🗌 Disabl	e clock sett	ing					
Clock sou	rce						
HMI in	nternal						
O Periph	eral						
-							
<mark>⊘ Write</mark> (clock to per	ripheral					
Write	Continuit	ty ~					
Clock dis	splay forma	t					
		Hexadecimal					
		~					
Number	0						
D	evice	1		Register			
				100			

Disable clock setting	After checking, it will not be possible to modify the HMI internal clock for installment payments and other time encryption projects to prevent any impact on functionality after modifying the clock.
Clock source	To set the clock source for the HMI, you can choose to use the HMI internal clock or import it from an external device. The default is the HMI internal clock. When selecting an external device, the following settings will appear. Clock source O HMI internal Peripheral Addr PSW0
Clock display format	When setting the format for reading the clock from external devices, decimal or hexadecimal can be selected. Example: When communicating with the Xinje PLC through HMI, if the clock is selected to be read from an external device, and the Xinje PLC clock format is decimal, the clock display format here should also be selected as hexadecimal.
Address	Set the first address for clock reading, set it to the HMI time, and the address requires one single word (16 bits) register each for year, month, day, hour, minute, and second, excluding the week. Example: If the address is set to D0, the values of the six registers from D0 to D6 will be read from D0 onwards, and used sequentially as year, month, day, hour, minute, and second.
Write mode	After selecting "Write clock to peripheral", the method of exporting HMI clock can be set, which can be continuous, trigger, or cycle. The default is continuous transmission, which means that every second change can be written to the external address in real time; When selecting trigger or cycle, the transmission conditions need to be set, as shown in the following figure. It should be noted that when the writing method is cycle, the minimum cycle cannot be less than 100 milliseconds.
	✓ Write clock to peripheral Write Cycle Cycle 100 ↓ 0.1 sec ∨ ✓ Register PSW0
Clock display format	There are two ways to write the HMI internal clock: decimal and hexadecimal, so it is necessary to choose the external format based on the actual situation. After selecting, it will be written to the target register in the corresponding format.
Number of synchronization devices	Customize the number of HMI clocks written to external devices. If multiple devices are connected to the HMI simultaneously, the number of devices can also be set here. The table below will display the corresponding number of rows based on the number set here. The first address corresponding to each device needs to be set in the table below; Similar to reading from external sources above, writing to external devices is also divided into six registers: year, month, day, hour, minute, and second, excluding weeks. Example: If the address is set

to D0, D0~D5 will di occupying 6 register add Write clock to peript Write Continuity Clock display format O Decimal system 0 1 Number 2	eral
Device	Register
Device0	Settings
Device1	Settings

3-10-6. Device

Mainly set communication parameters between HMI and external devices such as PLC.

rameter	Monitor Interac	tion User permi Clock	Device	Printer Pro	ject
C	COM1	Xinje			~
C	COM2	Xinje XC RTU			
		Xinje XD RTU			
		New equipment			
No.	Device name	Equipment type Port	Port type	Communication protocol	Station No.
0	Local Device	Local Device -	- 1		0

New equipment	Add different device types, select COM1/COM2/Net0 on the left, and click "New Equipment"
	to add a new device.
Device name	Customize the name of the added device. When adding multiple devices to the same serial port,
	the name cannot be duplicated.
Equipment type	The selected protocol name.
Port ID	The COM port where the device is located is automatically generated by the system and does
	not need to be set
Port type	The interface type selected when creating a new device is generally RS232, RS485, RS422, or
	Net.
Communication	When in the serial port, parameters such as baud rate, data bits, parity, stop bit, etc. are
protocol	displayed here;
	When in the Ethernet port, the IP address and port number of the device are displayed here.
	Double click to modify the parameters.
Station no.	The device station number cannot be duplicated when adding multiple devices to the same
	serial port.

3-10-7. Printer

The Xinje TS series HMI currently supports connecting micro printers through USB or serial port. Configure the connection parameters in System Settings - Printers, and the configuration items are shown in the following figure.

	System settings ×
	Parameter Monitor Interaction User permi Clock Device Printer Project
	✓ Enable printing Printer Printing method Serial port model BRIGHTEK WH-I ~ Interface COM1 Baud rate 9600 Check bit None Data bit 8 Bit
Printing method	Select the port for connecting the HMI to the printer; You can choose between serial port or USB.
Model	Select the printer brand and model; At present, the USB port only supports the "Brightek WH-E19" model; The serial port supports two models, "Prind" and "Brightek WH-E19".
Interface	Set the COM port for printer connection.
Baud rate	Set the baud rate for communication to be consistent with the printer's configuration.
Check bit	Set the communication parity bit to be consistent with the printer's configuration
Data bit	Set communication data bits to match printer configuration
Stop bit	Set the stop bit for communication to be consistent with the printer's configuration

After completing the configuration, you can find the "Print Area" control in the control area, click on it, select an area in the editing area, and configure the print trigger signal. Place the controls that need to be printed in this dashed area, and after triggering the printing signal, the content of the printing area will be printed out through the printer.

M NAM MAN NAM NAM NAM MAN	214년 214년 214년 214년 214년 214년 214년 214년	n nan na
	Print area	×
DE MERE NORT MARE NORT MARE DARE		
	Basic Attribute Location	
	Control ID PA0	
153	Description	
101 1 401 2400 2400 2400 240 <mark>1</mark> 2400	Trigger address	
	Device Local Device ~	Settings
179	Address PSB v 0	
	ON->OFF ~ Indirect	
RA MARA MARA MARA MARA MARA		

3-10-8. Project

This item is used to set the current project name, author, and comments. If the current project has been saved, the name item displays the name of the project and cannot be modified.

arameter	Monitor	Interaction User permi	Clock	Device	Printer	Project	
Name:	Project						
Author:							
Remarks:							

4. Components

4-1. Drawing

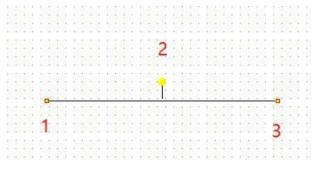
The drawing bar includes line, circle, rectangle, arc, polygon, table, scale, QR code, picture, dynamic picture, translation animation, and function canvas.

Mapping		
Straight line	Circular	Rectangle
Arc	N Polygon	Form
Scale	QR code	Picture
Dynamic picture	• Translating animation	J Function canvas

4-1-1. Straight line

1. Click Mapping/straight line or icon, move the cursor to the screen, click the left mouse button at the starting point, drag the cursor to the end point, and then click the left mouse button (click the right mouse button or click ESC to cancel the placement) to complete the drawing of line segments. At the same time, a property box will pop up, and you can set it in the pop-up property dialog box.

2. Double click the drawn "line", or select "line", right-click, and select "attribute" to set the attribute.



(1) During drawing, long press the Shfit key to quickly draw horizontal or vertical lines

(2) When the drawn line is selected, when the mouse is placed on point 1 or 3, the mouse shape changes from arrow to cross in, long press the left mouse button to move left and right to change the length and rotation angle of the line. When the mouse is placed on point 2 (yellow point), the mouse shape changes from an arrow to a hand. Long press the left mouse button to move, and then rotate the whole figure with point 2 as the center.

■ Line property

		Stra	light line	
Basic propSecu	unity si Position			
Contro Descril	bl ID L0			
Straight li	ine	End		
Starting		End		
X:	423	X:	166	
Υ:	280	Y:	268	
Arrow				
		and the set		
Draw t	the start arrow	Dr.	w the end arrow	
Draw t		- V End a		
Start arro		• <u>×</u> End a	rrow v	
1000			rrow v	
Start arro		• <u>×</u> End a	rrow v	
Start arro		• <u>×</u> End a	rrow v	1
Start arro Starting Line		• <u>×</u> End a	rrow v	
Start arro Starting Line Type:		• <u>×</u> End a	rrow v	

Co	ntrol ID	It is used for system management and cannot be operated by users
D	escribe	Can be used to comment on the purpose of this component
Straight	Starting	Set the X and Y values of the starting point of the line segment
line	End	Set the X and Y values of the end point of the line segment
1	Arrow	Draw the starting arrow. Check this option to set the style and size of the starting arrow
		Draw the end arrow. Check this option to set the style and size of the end arrow
Line	Туре	Set the type of line, including solid line, long dotted line, short dotted line, point line
	Color	Set the color of the line
	Width	Set the width of the line
	Transparency	Set the transparency of the line (the closer the slider is to the left, the lower the
		transparency percentage, and the more transparent the component is)

Security setting

sic prop Security se Position				
sic prop Security se Position				
Display control				
✓ Enable				
When 隐藏	~			
Equip 本地设备		~	Set	
Addre pSB	~ 0	0		
Enable sta ON User rights	✓ ct	designation		
Hide the compone	nt when the use	r has no pern	nission range	
Required user	权限1	~]	
permission range				

Display control	will be hidden When checked, display control will be enabled ation When validation fails, it will hide the component Current communication device Click "Set" to enter the address setting interface, where you can set system registers and user-defined tags. You can click the address tag below or the project tree/library/address tag library to set the tags (see chapter 5-2 Address Tag Library for the use of address tag library and user-defined tags) Address Fquipme ************************************			
1 5				
Enable	When checked, display control will be enabled			
When validation	When validation fails, it will hide the component			
fails				
Equipment	Current communication device			
Set	Click "Set" to enter the address setting interface, where you can set system registers and			
	user-defined tags. You can click the address tag below or the project tree/library/address tag			
	library to set the tags (see chapter 5-2 Address Tag Library for the use of address tag library and user-defined tags) Address Equipme 本地设备 Address Statio 0 n			
	and user-defined tags)			
	Address			
	Equipme 本地设备 v Statio 0			
	Address			
	Address tag			
	Determine Cancel Application			
Address	Set the target coil for hit control			
Enable status	Set ON status to be valid or OFF status to be valid			
User rights	Set the component authority level. Set the permission of this component. You need to enter the			
Coor ingino	password to use this component. When there is no permission for this component, this			
	component is hidden			

For example: if the equipment is set as shown in the above figure, the bit control is PSB0, and select "Hide the component when the user has no permission range", and the enable status is ON, then when the status of PSB0 is ON, the component is normally displayed, and when the status of PSB0 is OFF, the component is hidden and not displayed.

Position

Basic pror Security st Position
PositionSizeX166WidthY268(W)Height12
Animation Lateral movement Longitudinal movement

coordinate origin (0, 0)

X coordinate	Set the X axis coordinate value of the line
Y coordinate	Set the Y axis coordinate value of the line
Size	Set the width and height of the line
Width (W)	Set the width of the line
Height (H)	Set the height of the line
Animation	Set whether the line can be moved
Lateral	Set the horizontal display position of the line according to the value of the register, that is,
movement	modify the X axis coordinate value. X axis coordinate value=X position+the value of the
	current register
Longitudinal	Set the vertical display position of the line according to the value of the register, that is,
movement	modify the Y axis coordinate value. Y axis coordinate value=Y position+the value of the
	current register
Locking	Set whether it can be moved during editing. When "Locking" is checked, it cannot be moved
	during editing. You can unlock it by unchecking this item, or you can set it by pressing the
	shortcut keys Lock 🙃 and Unlock 🙃 on the interface

4-1-2. Circular

Click "Mapping/Circular" in the menu or icon in the drawing bar of the control window, move the cursor to the screen, press and hold the left mouse button at the starting point, drag the cursor to the end point, and release the left mouse button (click ESC to cancel the placement) to complete the circle drawing. At the same time, a property box will pop up, and you can set it in the pop-up property dialog box.
 Double click the drawn "circle", or select "circle", right-click, and select "attribute" to set the attribute.

Property

		C	ircular			2
Basic propSecurity	se Position					
Control II	со со					
Describe						
∠ Line						
Туре:	-				- •	
Color:					-	
Width:					- •	
Transparen	د [O 100 🗧		
Fill Gradient Hatch pattern Pattern	Solid color 从左到右	* *	Fill color End color		~	
Transpare			100 🗘 %			

Control ID	It is used for system management component and cannot be operated by users
Describe	Can be used to comment on the purpose of this component

Line	Туре	Set the line type of the circle, including solid line, long dotted line, short dotted line, and		
		point line		
	Color Set the border color of the circle			
	Width	Set the line width of the circle		
	Transparency	Set the line transparency of the circle (the closer the slider is to the left, the lower the		
	transparency percentage, the more transparent the line is)			
Sector	Fill	After checking "Fill", you can set the fill color, fill style and transparency of the circle		
	Fill pattern	Can be filled with solid colors, gradients and patterns		
	Transparency	Set the transparency of the circle by sliding the slider (the closer the slider is to the left,		
		the transparency percentage is lower, the more transparent the filled area is)		
		transparency 100% transparency 50% transparency 0%		

The set fill style, color and transparency can be previewed in the box below the transparency.

Security setting

	Circular	×
Basic pror Security se P	osition	
	隐藏 地设备 SB ON Ct designation	
User rights Hide the co Required us permission		

Refer to chapter 4-1-1 straight line for security setting.

Position

Refer to chapter 4-1-1 straight line for position.

4-1-3. Rectangle

1. Click "Mapping/Rectangle" in the menu bar or icon in the control window's drawing bar, move the cursor to the screen, press and hold the left mouse button at the starting point, drag the cursor to the end point, and release the left mouse button (click ESC to cancel the placement) to finish the rectangle drawing. At the same time, a property box will pop up, and you can set it in the pop-up property dialog box.

2. Double click the drawn Rectangle/Rounded Rectangle, or select Rectangle/Rounded Rectangle, right-click, and select attribute.

Property

	101 - 20	Rectangle			
Basic propSecurity s	Resition				
Control ID	R0				
Describe					
– Rectangular a	angle				
Fillet diamet	er: 0				
✓ Line					
Type:				v	
Color:				•	
Width:	-			~ ~	
Transparent	-		0 100		
Rectangular a	area				
Fill	Solid color	✓ Fill co	olor	v	
Gradient	从左到右	✓ End co	olor	Y	
Hatch					
pattern					
Pattern		~			
Transpare			96		
1					

Cont	trol ID	It is used for system management component and cannot be operated by users			
Des	scribe	Can be used to comment on the purpose of this component			
Rectangular	Fillet	Set the fillet diameter (0-100) to 0, which is a rectangle. The larger the value, the			
angle	diameter	larger the fillet diameter (the upper limit of the fillet diameter varies according to			
		the size of the rectangle placed)			
		Fillet Fillet diameter 83 Fillet F			
Line	Туре	Set the line type of the rectangle, including solid line, long dotted line, short dotted			
		line, and point line			

	Color	Set the line color of the rectangle
	Width	Set the line width of the rectangle
		Transparency 100% 50% 0%
	Transparency	Set the transparency of rectangular lines (the closer the slider is to the left, the
		lower the transparency percentage, and the more transparent the lines are)
Rectangular	Fill	After checking "Fill", you can set the fill color, fill style and transparency of the
area		rectangular area
	Fill pattern	Can be filled with solid colors, gradients and patterns
	Transparency	Set the transparency of rectangle/rounded rectangle by sliding the slider (the closer
		the slider is to the left, the lower the transparency percentage, and the more
		transparent the filled area is)
		Transparency 100% 50% 0%

The set fill style, color and transparency can be previewed in the box below the transparency

Security setting

		Rectan	gle		
sic prop Security se	Position				
Display contro Enable When					
Equip Addre	隐藏 本地设备 PSB	~ 0	~ [0	Set	
Enable	sta ON 🗸	ct des	ignation		
User rights Hide the Required permission			s no permis	ssion range	
1					

Same to chapter 4-1-1. Straight line security setting.

Position

Same to chapter 4-1-1. Straight line position part.

4-1-4. Arc

Click the "Mapping/Arc" icon in the menu bar or the icon in the control window's drawing bar, move the cursor to the screen, click the left mouse button at the starting point, drag the cursor to the end point, and then click the left mouse button to complete the arc drawing. At the same time, a property box will pop up, and you can set it in the pop-up property dialog box. The difference between arc and sector is whether they are closed. Double click the drawn Arc, or select the Arc, right-click, and select attribute.

Basic property

asic prop Sector Se				
Control ID A	0			
Describe				
Arc				
Starting	270	Long side:	86	
Termination	360	Short side	2	
Center	212124462			
X :	153			
Y:	247			
Line				
Туре:				
Color:			~	
Width:				
Transparenc			100	

_							
	Co	ontrol ID	It is used for system management component and cannot be operated by users				
	Ľ	Describe	It can be used to remark the purpose of this control				
	Arc	Starting	Take the arc center as the base point, take the right direction of the horizontal line				
			passing through the base point as the horizontal 0°, and the angle between the line				
			passing through the base point and the starting point and the horizontal 0°				
		Termination	Take the arc center as the base point, take the right direction of the horizontal line				
			passing through the base point as the horizontal 0°, and the angle between the line				
			passing through the base point and the end point and the horizontal 0°				
		Long side	Set the long side of the arc				
		Short side	Set the short side of the arc				
		Center	The X and Y coordinate positions of the arc center are displayed and cannot be modified				
			Start angle 0° Start angle 0°				
			End angle 90° End angle 180°				
	Line	Туре	Set the line type of arc, including solid line, long dotted line, short dotted line and point				
			line				

Color	Set the line color of the arc
Width	Set the line width of the arc
Transparency	Set the transparency of the line (the closer the slider is to the left, the lower the
	transparency percentage, the more transparent the line is)

Sector

The arc start point, end point and arc center point are connected to form a closed figure, that is, a sector.

Particular and a second s	
Y Fill color	v
Y End color	~
-Q 100 😴 %	
	 ✓ End color ✓ ✓ 100 ♥ %

Sector	Select "draw as sector", and set the fill option
Fill	Set the fill color, fill style, and transparency of the sector
Pattern	Can be filled with solid colors, gradients and patterns
Transparency	Set the transparency of the sector by sliding the slider (the closer the slider is to the left,
	the lower the transparency percentage, and the more transparent the component is)
	Transparency 100% 0%

The set fill style, color and transparency can be previewed in the box below the transparency

Security setting

ð

asic prot Sector	Security se Position			
Display contro	1			
✓ Enable When				
When	隐藏 >			
Equip	本地设备	~	Set	
Addre	PSB v	0 0		
Enable	sta ON 🗸 C	t designation		
User rights				
I Hide the	component when the us	er has n <mark>o p</mark> ermi	ssion range	
Required	user 权限1	~		
	on range	<u></u>		
permissi				

Same to chapter 4-1-1. Straight line security setting

Position

Same to chapter 4-1-1. Straight line position part.

4-1-5. Polygon

- 1. Click the "Mapping/Polygon" icon in the menu bar or the \bigwedge icon in the control window's drawing bar, move the cursor to the screen, press the left mouse button at the starting point, drag the cursor to move, and determine the positions of the following endpoints in turn. Double click the left mouse button (click the right mouse button or cancel the placement with the ESC key) to finish the polyline drawing. At the same time, a property box will pop up, and you can set it in the pop-up property dialog box. The difference between polylines and polygons is whether they are closed.
- 2. Double click the drawn Polyline/Polygon, or select Polyline/Polygon, right-click, and select Attribute.
- Basic property

Polyline

Polygon

Polygon	Polygon
Basic propSecurity se Position	Basic propSecurity at Position
Control ID B0 Describe	Cantrol ID 80 Describe
Broken line Polygon Line	O Broken line Polygon Itine
Type:	Type: V Color: V
Color:	Width: V Transparenc 0 100 ©
Transparenc 100 🛱	₩ Fat
Arrow	Fill Solid color v Fill color v
Image: Provide arrow Image: Provide arrow Start arrow Image: Provide arrow Starting Image: Provide arrow	Gradient 从左到右 v End color v Hatch pattern Pattern
	Transpare 100 🛱 %

Control ID	It is used for system management component and cannot be operated by users		
Describe	It can be used to remark the purpose of this control		
Broken line Set whether it is a polyline			
Polygon	When you select a polygon, the polyline automatically connects the start point and end		
	point to generate a polygon. You can set the fill color, fill style, and transparency of the		
	polygon		
Туре	Set the line type, including solid line, long dotted line, short dotted line, and point line		
Color	Set the line color		
Width	Set the line width		
Transparency	Set the transparency of the line (the closer the slider is to the left, the lower the		
	transparency percentage, the more transparent the line is)		
Draw the start	After checking this option, you can set the style and size of the starting arrow		
arrow			
Draw the end	After checking this option, you can set the style and size of the end arrow		
arrow			
Fill Set the fill color, fill style and transparency of polygons			
Pattern Can be filled with solid colors, gradients and patterns			
ransparency	Set the transparency of polygons by sliding the slider (the closer the slider is to the left,		
	the lower the transparency percentage, and the more transparent the filled area is)		
	444		
	Transparency 100% 50% 0%		
	Describe roken line Polygon Type Color Width Transparency Draw the start arrow Draw the end arrow Fill Pattern		

The set fill style, color and transparency can be previewed in the box below the transparency

Security setting

isplay control			
Lindbie			
When	き職 ~		
Equip 本地	设备	v Set	
Addre PSB	v 0	0	
Enable sta	on v ct desig	gnation	
lser rights			
Hide the com	ponent when the user has	no permission range	
Required use	权限1	*	
permission ra			

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-1-6. Form

1. Click "Mapping/Form" in the menu bar or 🕮 icon in the drawing bar of the control window, move the

cursor to the screen, click the left mouse button to place, click the right mouse button or click ESC to cancel the placement. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the drawn "Table" or select "Table" and right-click to select Attribute.

■ Basic property

		Form	2
Basic propSecurity:	se Position		
Control II TO			
Describe		1	
Rows :	Contour		
Colum ³	Equal widt	n	
Outer frame			
Style	~ ¥		
Colou	V		
- Grid			
Show row	separator		
Style		Colou	~
Show colu	imn separator		
Style	v	Colour	*
🗌 Fill			
	~		
Fill color			

ontrol ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Rows	Set the number of rows in the table. The default value is 3
Columns	Set the number of columns in the table. The default value is 3
Contour	Set whether the table is equal in height
Equal width	Set whether the table is equal in width
Style	Select the style of the outline, including solid line, long dotted line, short dotted line,
	and point line
Color	Set the color of the outer border
Show row	Set the color and style of row separator
separator	
Show column	Set the color and style of column separator
separator	
Fill	Set the fill color in the table
ne width	Set the width of table lines
	ontrol ID Describe Rows Columns Contour Equal width Style Color Show row separator Show column separator

Security setting

Display contro	1		
Enable	1		
When	隐藏 >		
Equip	本地设备	✓ Set	
Addre	PSB v 0	0	
Enable	sta ON 🗸 C	t designation	
User rights			
✓ Hide the	component when the use	er has no permission range	
Required		~	
nermissi	on range		

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-1-7. Scale

1. Click "Mapping/Scale" in the menu bar or icon in the control window's drawing bar, move the cursor to the screen, click the left mouse button to place, click the right mouse button or click ESC to cancel the placement. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "Scale" or select "Scale", right-click and select Attribute.

Basic property

	Scale
Bas	ic propSecurity st Pasition
c	Control ID 50
c	Describe
s	tyle Style 水平 ~
s	cale
	Line style
	Line color
	Main engraving 10 🖨 Main scale leng 30 🖨
E	Sub engravin 1 Sub scale leng 15
E	Z Axis
т	ick marks
Į.	✓ Use
	Integer b/3 🗧 Decimal p0 🗟
	Upper lim 100 🖨 🗌 Register
	Lower lim 0 Register
	Typeface Typ 微软雅黑 常规
	Typ 微軟雅黒 v 常规 v Col Size 12 v
	Scale reverse sort .ocatio L V Determine Cancel Application
Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Style	Set the scale style, including horizontal, vertical, upper semicircle, lower semicircle,
Style	full circle, and custom circle
	vertical full circle
Line style	Set the line style of the scale, including solid line, long dotted line, short dotted line,
	and point line
Line width	Set the line width of the scale
Line color	Set the line color of the scale
Main scale	Set the main scale numbers

Scale

length

Sub sca	le Set the sub scale numbers	
Sub sca	le Set the sub scale length	
length		
Axis	Set whether the axis is displayed	
Scale marks Select it to set the following items		
Integer digits Set the number of integer bits of the scale mark		
Decimal digits Set the number of decimal places of the scale mark		
Upper limit Set the upper limit of the scale value, that is, the maximum value		
Register Check "Register", and the upper limit value can be controlled by the register		
Lower limit	Lower limit Set the lower limit of the scale value, i.e. the minimum value	
Register Check "Register", and the lower limit value can be controlled by the register		
Typeface	Set the scale font, font size, font style, color and alignment method	
Scale Reverse S	When not checked, the semicircle scale is displayed counterclockwise, the horizontal	
	scale is displayed from left to right, and the vertical scale is displayed from bottom to	
	top; When checked, the semicircle scale is displayed clockwise, the horizontal scale is	
	displayed from right to left, and the vertical scale is displayed from top to bottom	
Location	Set the scale position as up, down or center	

■ Security setting

sic prop Security se	e Position	
Display contro	əl	
When	隐藏 >	
Equip	本地设备 v Set	
Addre	PSB ~ 0 0	
Enable	sta ^I ON v ct designation	
User rights		
Hide the	component when the user has no permission range	
Required	d user 权限I 🗸	
	on range	
permissi		

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-1-8. QR code

1. Click the "Mapping/QR Code" icon in the menu bar or the 🔜 icon in the drawing bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or

click ESC to cancel the placement. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click QR Code or select QR Code and right-click to select Attribute.

Basic property

QR code	×
Basic prop(Security se Position	
Control ID Q0	
Describe	
Type selection	
QR code Dar code	
Code selection	
BarcodeType QRCode ~	
CodingMode O AscII	
CalibrationStand L(7%)	
Content	
Fixed content Ergister assignment	ŝ.
Equip 本地设备 v Set	
Addre psw v 0 0	
er of	
regist	

Co	ontrol ID	It is used for	system management control and cannot be operated by users
Γ	Describe	Can be used	to comment on the purpose of this component
Тур	e selection	You can sele	ct QR code or barcode
Code	Barcode type	Set the type	of barcode. The QR code includes QRCode, DataMatrix, PDF417
selection		QRCode	(It is mainly used in the Internet, logistics information tracing, retail billing applications, etc. For example, the QR code presented by mobile payment is the most commonly used QR code type)
		DataMatrix	(Mainly used in the industrial field to achieve quality traceability)
		PDF417	(It is mainly used for certificate management, report
			management, etc)

		Bar code (Mainly used for commodity barcode)
	Coding mode	Set the encoding method of AscII or UniCode (this option is available only for QRCode types, and only has AscII for other types)
	Calibration	Set calibration standard (only available under QRCode type)
	standard	CalibrationStand L(7%) L(7%) M(15%) Q(25%) H(30%)
		Calibration standard of QR code: When you encode QR code, you also create some
		redundant data, which will help QR reader read QR code accurately. Even if part of
		it is unreadable data, it will not affect reading correct information.
		There are four levels of error correction in the QR code, the lowest is
		L: Calibrate 7% of the font size
		M: Calibrate 15% of the font size
		Q: Calibrate 25% of the font size
		H: Calibrate 30% of the font size
Content	Fixed content	Display fixed content (click the blank part to set the content)
	Register assignment	Dynamically specifying QR Codes with registers
	Equipment	Select the current device port for communication
	Address	Set the QR code monitoring address and whether there is offset
	Number of	Set the number of registers (you can enter the corresponding number of registers
	register	according to the content to be set. If you do not check the user-defined data type, the
		default is WORD-16 bits)
	Custom data type	After checking, you can set the data type. DWORD-32 bits, DDWORD-64 bits

Note: If the QR code content is specified by a register, the register should be a character input register, and data input registers are not supported.

Security setting

	QR code	×
Basic prop Securit Display control		
When		
Equip Addre Enable	本地设备 v Set PSB v 0 0 sta oN v ct designation	
User rights Hide the o Required permissio		

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-1-9. Picture

1. Click the "Mapping/Picture" icon in the menu bar or the in the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Its size can be adjusted by dragging the mouse.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "GIF picture" or select "GIF picture", right-click and select "Attribute".

Basic property

P	icture 🔽
Basic propSecurity se Position	
Control ID G0	
Describe	
Select Custom	
✓ twinkle Flicker frei0.5	seconc
✓ Rotate	
Rotation a 0	
Transparent processing	
Use specified c	I
Picture preview	
Ficture preview	
	Determine Cancel Application

Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Select	Click to insert the picture in the resource library
Custom	Click to add pictures on your computer

Twinkle	Set whether the picture flickers and flicker frequency (unit: second)
Rotate	Set whether the picture is rotated and the rotation angle
Transparent	Set the specified color to make the picture transparent (only one color of the selected picture
processing	can be transparent)
Picture preview	You can preview the selected picture

The color picker can select any color in the screen for color picking

Examples of transparent processing:

ð

As shown in the figure below, prepare to remove the black background outside the lamb

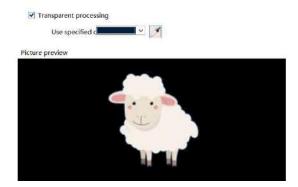


(1) Select gif from the control window to put on the screen

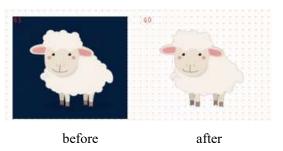
(2) Select the image to be processed from the customized path, click Transparent Processing, use the color picker to select the dark blue of the lamb background for color extraction, or select the same color as the lamb background after using the specified color

			Picture			
Basic prop <mark>Security</mark> s	Position					
Control ID	G0					
Describe						
Select		Custom	step 1			
twinkle						
🗌 Rotate						
Transpare	nt processi	ng step 2				
	pecified d		ste	p 3		
			N.I.			
Picture preview						
		(2)-				
		At-	• ·*· ·			
		_				
		1	i i	a a		
		6-5-	-			
		and the	1 Cars.	3		
			Deter	mine	Cancel	Application
			Deter		cancer	Application

(3) After color selection, the page is displayed as shown below



(4) Click OK to display as shown below



Security setting

Transparent processing

		Picture			
sic prop Security se	Position				
Display contro	ŕ				
Enable					
When	隐蔵・マ				
Equip	本地设备		~	Set	
Addre	PSB	v 0	0		
Enable User rights	sta ON Y	ct desigr	nation		
26	component when the	user has n	o nermi	ission range	
		user nus n	-	ission runge	
Required permission			*		
permission					

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-1-10. Dynamic picture

1. Click "Mapping/Dynamic Picture" on the menu bar or click the 🔛 icon in the drawing bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Set multiple pictures. The pictures can be switched freely according to fixed time and order. The size can be adjusted by dragging the mouse.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "Dynamic Picture" or select "Dynamic Picture", right-click and select "Attribute".

Animation materials

		Rotate animation	×
AnimatioAnir	matic Security Positi	on	
Control ID	TAO		
Describe			
	Increase	Desalination	
	Delete	¢	
	Move up	Rotate	
	Move		
	insert		
	modify		

Control ID		It is used for system management control and cannot be operated by users				
Describe		Can be used to comment on the purpose of this component				
Function	Increase	Pictures in the material library or user-defined pictures can be added (the picture size				
		should be less than 1920 * 1080)				
	Delete	Delete the specified pictures added to the material				
	Move up	Move the specified picture up				
	Move	Move the specified picture down				
	down					
	Insert	Insert picture in this position				
	Modify	Modify the selected picture				
Fad	le-out	After checking, you can set whether the picture needs to be faded by sliding the slider (the				
		closer the slider is to the left, the higher the degree of fading)				
		✓ Desalination ✓ Desalination ✓ Desalination ✓ Rotate ■ Rotate ■ Rotate ■ Rotate				
Ro	otate	After checking, the picture can be rotated at will to achieve the target effect (when the				
		pointer is dragged to rotate clockwise/counterclockwise, the picture will also rotate				
		clockwise/counterclockwise)				
		Desalination Rotate Rotate				



Cycle tin	20	
cycle un	1000 Millise Use addre PSW0	
Switch m	ode One way V	
	g order: _{er} v	
Start	signal	
Equip	本地设备 v Set	
Addre	PSB v 0 0	
	ct designation	
Trigger	mc上升沿 Y	
End s	ignal	
Equip	本地设备 v Set	
Addre	PSB	
	ct designation	

Cycle time		Set the time of a cycle (that is, all pictures are switched). You can set a constant or specify it				
		through a register				
Switch	One way	Pictures are displayed from the first to the last, and then from the first to the last				
mode	Return	Pictures are displayed in the mode of first to last, then last to first, and then first to last				
Swite	hing order	Set the switching order of the picture, which is specified by the picture number (1-10, 10-1,				
		or randomly set by the user)				
(Drder	Pictures are displayed in order				
Reve	erse order	Pictures are displayed in reverse order				
Ra	andom	Pictures are displayed randomly without fixed order, and they are displayed in the order set				
		by the user, separated by English commas ","				
Sta	rt signal	If checked, the animation starts when the specified coil is ON or OFF; If not checked, the				
		animation will always act				
Equ	uipment	Select the current device port for communication				
	Set	Click "Set" to enter the address setting interface, where you can set and use system registers				
		and user-defined tags. You can click the address tag library below or the project tree - library				
		- address tag library to set the used tags (see chapter 5-2 Address Tag Library for the use of				
		address tag library and user-defined tags)				

	Address		
	Equipme 本地设备 v Statio 0 n		
	Address psg View User defined label		
	Address 0 System register		
	Address [Extent: 0 - 9999] format		
	Address tag		
	Determine Cancel Application		
Address	Set the object address of the control start signal and whether it is offset (that is, specified		
	indirectly)		
Indirect assignment	Set the current address offset. The current register address changes with the indirectly		
	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example, the		
	current coil address is PSB0, if the indirectly assigned address is PSW100. When the value of		
	PSW100 register is 0, the coil controlling this element is still PSB0; When the value of		
	PSW100 register is 1, the coil controlling this element is PSB1 (and so on)		
Start signal trigger			
mode	The trigger of rising/falling edge can be customized		
End signal	If checked, the animation ends when the specified coil is ON or OFF		
End signal trigger mode	The trigger of rising/falling edge can be customized		

Security setting

Display contro	l		
Enable			
When	隐藏 🖌 🖌		
Equip	本地设备	✓ Set	
Addre	PSB 🗸 0	0	
Enable	sta ON 🗸 ct c	designation	
User rights			
✓ Hide the	component when the user	has no permission range	

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-1-11. Translating animation

The use of translation animation components can help users achieve animation functions, but a single translation animation component cannot achieve animation functions. It must be combined with the components that achieve animation functions.

1. Click "Mapping/Translating Animation" on the menu bar or click the icon in the drawing bar of the control window, move the cursor to the screen, press the left mouse button at the starting point, drag the cursor to move, and determine the positions of the following endpoints in turn. Double click the left mouse button (click the right mouse button or click ESC to cancel the placement) to finish the drawing of the translating animation, and the property box will pop up at the same time.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "Translation Animation" or select "Translation Animation" and then right-click to select "Attributes".

		Translating animation
Coordinate Control		
Control ID Describe	TRO	
x y	97	協志坐标:X=97;Y=207 经历时间4.1秒 端点坐标:X=304;Y=203 经历时间2.2秒 端点坐标:X=214;Y=297 经历时间2.29秒 端点坐标:X=99;Y=208 经历时间2.9秒 端点坐标:X=190;Y=233

	Control I	D	It is used for system management control and cannot be operated by users
	Describ	e	Can be used to comment on the purpose of this component
	Endpoint	Х	Display the horizontal coordinate position of the current end point. After selecting the line
	coordinates		"End point coordinate" on the right, you can modify it at the left "X"
		Y	Display the longitudinal coordinate position of the current end point. Select the line "End
			point coordinate" on the right and modify it at the left "Y"
Ī	Experience	time	Display the time of moving from the current endpoint coordinate to the next endpoint
			coordinate, in seconds. After selecting the "experience time" line on the right, you can
			modify it at the "Time" position on the left

Coordinate

Control

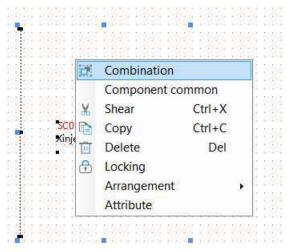
oordinati	Control			
5	n mode One way	~		
SWILLI	i mode one way	<u> </u>		
🗸 Sta	art signal			
Equip	本地设备	~	Set	
Addre	PSB 🗸	0 0		
		ct designation		
2076	er m ON v	ct designation		
✓ Re	set signal		Sat	
2076	set signal 本地设备	ct designation	Set	
Re Equip	set signal 本地设备	~	Set	

Keeping moving	Select w	hether the animation repeats	the ac	action according to the specified track; After
	checking	, the animation will repeat	the mc	otion according to the set track. If it is not
	checked,	the action will be performed	once	
Switch mode	One way	mode: act from the starting p	oint to	the ending point according to the drawn path
	Return m	node: move back and forth fi	om the	e starting point to the end point and from the
	end point	t to the starting point accordin	g to the	ne drawn path
Start signal	Select w	hether the action trigger is	contro	olled by the bit signal. When selected, the
-	animation	n starts when the rising edge	of the	bit signal comes and remains in the ON sta
				s and remains in the OFF state)
Equipment		e current device port for comr		
Set	Click "S	et" to enter the address set	ing in	nterface, where you can set and use system
			-	ck the address tag library below or the proje
	•	•		used tags (see chapter 5-2 Address Tag Librar
		se of address tag library and u		
			ser-uer	fined tags)
		Address		×
	Equipme nt	本地设备	~	v Statio 0
	Address type	PSB v		User defined label
	Address	0	~	 System register
	Address	[Extent : 0 - 9999]		
	format			
				Address tag
		Determine	Ca	Cancel Application
Address		•	tart sig	gnal and whether it is offset (that is, specifie
	indirectly	/)		

Indirect assignment	Set the current address offset. The current register address changes with the indirectly
	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example,
	the current coil address is PSB0, if the indirectly assigned address is PSW100; When the
	value of PSW100 register is 0, the coil controlling this element is still PSB0; When the
	value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)
Start signal trigger	Customizable ON/OFF trigger
mode	
Reset signal	Select whether the end of the action is controlled by a bit signal. After selecting, when the
	rising/falling edge of the bit signal comes, the animation will start from the beginning
Reset signal trigger	The trigger of rising/falling edge can be customized
mode	

Example:

To realize the text string "Xinje Electric welcomes you!" Scroll the display from top to bottom on the screen. You can draw a vertical translation animation track on the screen, place a static text string, select a static text string and a translation animation component, click the right mouse button, and select "Combination" to facilitate the movement of the text string according to the translation animation track. The movement time and control can be set by selecting "attribute":



4-1-12. Function canvas

Through C function DCMapDrawLine, DCMapDrawRect, DCMapDraw irce, DCMapDrawEllipse, DCMapDrawCircleArc, DCMapDrawEiilpseArc, the function of drawing lines, rectangles, circles, ellipses, arcs and elliptical arcs on the function canvas is realized. Clear the function canvas through DCMapClear. The function canvas background color filling function is realized through DCMapSetBackColor. Refer to 6-2-5 API Functions for the use of function canvas related functions.

- Operate process
- 1. New project, screen content making

(1) Click the "Mapping/Function Canvas" on the menu bar or the *sicence* icon on the control window's drawing bar, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the border through the border points. The establishment is shown in the following figure:

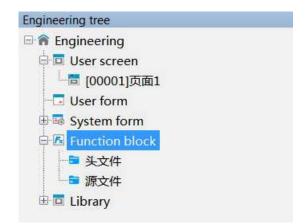
15				Touch Win Pro - 工程 - [00001]页面1		- 8 ×
File Edit P	arts Mapping	Tool View	Help			
Newly build Ope	Preservation Clo			py Shear Paste Delete Lookup Download Online simulation Offline Simulator Compile System settings Data sampling Alarmentry	Recipe editing	ь а а
Engineering tree			• × /[0	2001]页面1*	× Outline	ů ×
Bengineering User screer Total User form User form System form	UM1			● 単合 ● ① (1) F I = I = I = I = I = I = I = I = I = I	▲**(10001)页面1 ◎ 图曲篇句}-**C0	ත් ම ශ් ම
Function bl			v E		-	
Control window			ŧ x E			
Remer Anitator Bapping Crasher Rea Grand Conta C	Bar Morbe Electrone Water norms Cleadar Poly roote Poly roote Poly roote	References	×			
Alarm disolau	Alarm har	Trand diset	-		÷	
Hacino transmission		W transf chart	Outp		*	
Data table	Dis chart			pile window25900 ber of compiled resource files:39		
Special parts		140	Com	pilation succeeded.		
1.21		AN	ULTIN	x . Owarrang . ONews	Address Preview	Outline
-	 (195) 	Touch screen	model: TS5-7	10-E: NetD:信提 XD/XL/XG系列(Modbus TCP)(COM2:信提 XD/XL/XG系列(Modbus RTU)(COM1:信提 XD/XL/XG系列(Modbus RTU) X:303 V:528		Outline

(2) When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the Function Canvas or select the Function Canvas, right-click, and select attribute.

		Fu	inction canvas	×
	Basic prope Posit	tion		
	Control ID Describe	MC0		
	Number 0 Backgrou			
Control ID	It is used for sy	ystem manageme	ent control and cannot	be operated by user
Describe	Can be used to	comment on the	purpose of this comp	oonent
Number	Set MacroDCN	Map function nun	nber	
Background	Set Backgroun	d color properties	s	

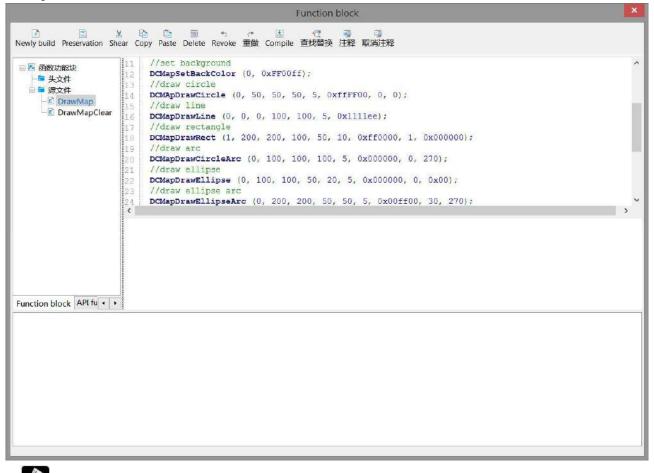
2. Add Function Block

(1) To create a function block, right-click the project tree - Function Block. In the pop-up dialog box, select "Add Function" to add 2 functions. Set the function name (i.e. the function block name, which can be 32 characters at most) to DrawMap and DrawMapClear:



(2) Edit the function DrawMap, DrawMapClear. Open the function editing interface. The functions are as follows:

DrawMap:



The TS series HMI uses RGB mode. One color occupies one byte, namely, 0xFF0000 is B (BLUE), 0x00FF00 is G (Green), and 0x0000FF is R (RED).

DrawMapClear:

	Function block	×
Newly build Preservation She	※ EA E 国 + + + E C	
 ● 透 函数功能块 ● 头文件 合 ● 须文件 ② DrawMap ② DrawMapClear 	11 //clear the image 12 DCMapClear (1); 13 14 15	^
	<	×
Function block API fu • •		

3. Call DrawMap, DrawMapClear

Place a function key on the screen, select "Function Call" from the "Optional Features" on the right, click "Add to" button to add this function, select the "Call Function" on the left, and select the name of the function to be called to add the function.

	Fur	nction key		
unction Appearance Secu	ity set Po	sition		
Control ID FB0				
Describe				
Action 按下状态	v			
] 启动声音				
Selected			Optional Featu	ires
调用函数		step 2	设置	线圈
step 3		Add to	设置	数据
	函数调用	₿	x	算
Basic properties Security	setting	(65)		输
功能函数 DrawMap	~	Edit	Function	换
DrawMap		Lunt		
DrawMapClear	r	1 1		
step 4				SV
D	etermine	Cancel	Application	SV 方
	cicitinite	Concer		
		stop 1		. _■ 方
		step 1	B2B4	调用

Click "Appearance" to set function key text, and finally click "OK" to finish setting.

		Functio	on key			
unction	Appearance Security se	t Positio	n			
			✓ Use pictu	res		
1			Status	0		~
	DrawMap		Name	button_0!	ō_a	
-			Catego	Ŋsvg		
			Dimens	ic 80 × 42		
1	Change appearance				More pi	ctures
🗹 Fill					in a second second	
State 0	-	Dicolau	taut Ar	only fonts to	each	
State 0	• O Multilina	✓ Display	text Ap	oply fonts to	each	
State	-	Display Draw		pply fonts to	each	
• Tevt	e	Draw	Map	-1	each	
 Течт Туреfac Ту (д) 		Draw		v	each	
 Теут Туреfac Ту а Со 	e	Draw	Map	-1	each	

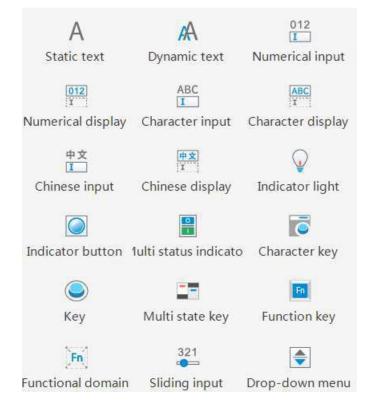
DrawMapClear function key is operated as above.

- 4. Download the program to the human-computer interface for operation.
- Position

Same as chapter 4-1-1. Straight line position part.

4-2. Parts

The basic components include: static text, dynamic text, value input, value display, character input, character display, Chinese input, Chinese display, indicator light, indicator button, multi status indicator light, character key, key, multi status key, function key, function domain, sliding input and drop-down menu.



4-2-1. Static text

Set the text to be displayed.

1. Click the "Part/Text/Static Text" icon in the menu bar or the A icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click Static Text or select Static Text and right-click to select Attribute.

Basic property

			Static text properties	×
E	lasic propeSecu	rity se [.] Position		
nji -	Control ID	ST0		
4	Describe			
1	Tevt	O Multilina		
	Typeface Ty Times N Co Ali Middle_C Frame Thi 无过 Co Io		text	
Control ID It	is used for s	system manag	gement control and cannot be operated by	users
Describe C	an be used to	o comment on	n the purpose of this component	
Text S	et the text to	be displayed.	. Click/double click the text to modify it	
Multilanguage S	et up multili	ngual display	y. After selecting, you can click the "Ad	d" text on the right side or
library th	ne project tre	e - library – l	label multilingual on the left side of the	project interface to manage
n	nultilingual (see chapter 4-	-7 for the library description for specific	use)
Typeface S	et the text fo	ont, size, color	r and alignment (the position displayed	in the box); You can check
	ne adaptive s hange accord		lrag the mouse to change the size of the	part, and the text size will



Frame

Multi language library setting: if the current project has not edited labels in multiple languages, the text in the upper right corner is displayed as "New" (as shown in the left figure below). If the label has been edited in multiple languages, the text will be displayed as "Edit" (as shown in the right figure below).

Set the thickness, style and color of the border

Static text properties	*	Static text properties	
Basic propeSecurity ser Position		Basic propeSecurity sel Position	
Control ID ST0		Control ID ST0	
Describe	1	Describe	
O Tavt Multilion	新培	O Text ④ Multilino 编辑	
Enable		☑ Enable	
		Form [ID: 000] v Num 1 v	
text		Text1	

Security setting

	Static text properties	
Basic prope Secu	rity set Position	
 Display contr ✓ Enable When 		
WHEN	隐藏 ~	
Equip Addre	本地设备 v 0 0 V Set	
	e sta ON v ct designation	
– User rights		
✓ Hide the	component when the user has no permission rang	e
Require permiss	d user 权限1 ~ v ion range	

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-2-2. Dynamic text

Different characters can be displayed according to different register values.

1. Click "Part/Text/Dynamic Text" in the menu bar or icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "Dynamic Text" or select "Dynamic Text" and right-click to select "Attribute".

Basic property

		Dynamic text configuration					
	Basic prope Dis Control ID Describe Read addres		Position				
	Equip 本地 Addre PSV Data Wor type	11 June	0 0 ct designation	Set			
Control ID	It is used for	system manag	gement contro	l and cannot be operated by users			
Describe	Can be used	to comment or	n the purpose	of this component			

Read address	Set dynamic text object address					
Equipment	Set the device port for communication					
Address	Set target register number					
Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD, Hex, Signed, Unigned,					
	Floating number					
Set	Click "Set" to enter the address setting interface, where you can set and use system registers and user-defined tags. You can click the address tag library below or the project tree library address tag library to set the tags used (see chapter 5-2 Address Tag Library for the use of address tag library and user-defined tags)					
Indirect	Sat the surrant address official. The surrant register address changes with the indirectly					
assignment	Set the current address offset. The current register address changes with the indirectly specified register value, that is, $Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3)$. For example: the					
ussignment	current register address is PSW0, if the indirectly specified address is PSW100; When the					
	value of PSW100 register is 0, the register controlling this element is still PSW0; When the					
	value of PSW100 register is 1, the register controlling this element is PSW1 (and so on)					
Inquiry	Dynamic text configuration					
	Basic proper Display Security se Position					
	Control ID DT0					
	Describe					
	Read address Equip 本地设备 v Set Addre psw v 0 0 Data type PSB SPSB PSW SPFW SPFW					
	Searchable address (the address bar of registers involved in the software will have input query, which will not be repeated later)					
	which will not be repeated fater)					

Display

The display content of the register is determined by the value of the object register, and different characters can be displayed according to the value of the object register.

		Dynamic text configuration						
		Basic prop Display Security se Position						
		Content						
		Serial Numerical value Text description string Add to						
		0 0 test1 1 1 test2 Delete						
		Delete						
		Move up						
		Move						
		State 1 · Apply fonts to each state						
		Typeface						
		「Y 微软推黑 · 常观 · Co Size 12 · · · · · · · · · · · · · · · · · ·						
		Ali Middle_Center V Adaptive size						
		Frame						
		Thi 无边框 v Style v Co						
		io						
		可变字符串1						
		Determine Cancel						
Co	ontent	Set the text to be displayed in each state, click the contents under "Serial Number", "Nun						
		Value" and "Text Description String" to modify it (you can select the contents u						
		'Click/Double click" text description string from the text library, and click the	""					
		Text description string						
		Text1						
		. You can enter the multilingual settings, or	r the					
		project tree - Library - Label Multilanguage - on the left side of the project bar	r for					
		nanagement (see chapter 5-1 Label Multilanguage for specific use)						
Item	Add	ncrease the number of dynamic text items						
	delete	Delete the contents of the target option						
	Move up	Move the target option up one physical location						
	Move	Move the target option down one physical location						
	down							
S	tate	You can check the drop-down list to set the font and border corresponding to	the					
		corresponding register value (or click the "apply fonts to each state" button behind to se						
		Font and border in all states)	-					
Tvr	oeface	Set the text font, size, color and alignment (the position displayed in the box). You can c	heck					
191	51400	he adaptive size, that is, drag the mouse to change the size of the part, and the text size						
			** 111					
change accordingly								
E	rame	Set the thickness, style and color of the border						

.....

Example: The setting is as shown in the figure above. When the value of PSW0 is 0, the dynamic string displays the variable string 0.

When the value of PSW0 is 1, the dynamic string displays variable string 1 and so on.





Maximum number of dynamic text strings:

When the data type is Word Usigned, the value range is 0~65535. Because the values of dynamic text strings cannot be repeated, the maximum number of dynamic text strings of this data type is 65536. The same applies to other data types.

Security setting

		Dynamic tex	kt configurat	tion	>
Basic prop D		Security se Position	0		
 Display cor Enable 					
When		隐藏 🗸			
Equ		地设备	~	Set	
Add	dre ps	B	0		
Ena	ble sta	ON ♀ Ct	designation		
Requi			has no permit	ssion range	
E (TASSE	90900000000000000000000000000000000000	2200 - 73)			

Same to chapter 4-1-1. Straight line security setting.

Position

Same as chapter 4-1-1. Straight line position part.

4-2-3. Numeric input

1. Click the "Part/Input/Numerical Input" in the menu bar or the icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click Numeric Input or select Numeric Input and right-click to set attributes.

Basic property

			N	lumerio	: input a	ttribute 🔛
Basic proDa	ata inp	Scale	co Notic	e Appe	ara Securi	ty Position
Contr	olID	D10				
Descr	ibe					
Rea	d / wri	te usir	ng differer	t addre	5505	
		10.030	ig unierer	it dourc	5565	
Read ac	Idress					
Equip	本地设	备		~		Set
Addre	PSW		¥	0	0	
Data	Word	~ U	nsignec 🗸		1.0	
type		and the		ct desig	gnation	
Write a	ddress					
Equip	本地设	魯			~	Set
Addre	PSW		~	0	0	
Data	Word	~ U	nsignec 🗸	i Secolarita		
type				ct desid	Ination	

Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Read/write using different addresses	If not checked, the same address is used for reading and writing
Read address	Set the displayed address. You can also set whether there is an offset (that is, indirect assignment)
Write address	Set the write address. You can also set whether there is an offset (that is, indirect assignment)
Equipment	Current equipment port for communication
Address	Set target register number
Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD, Hex, Signed, Unigned, Floating number
Set	Click "Set" to enter the address setting interface, where you can set and use system registers and user-defined tags. You can click the address tag library below or the project tree – library - address tag library to set the tags (see chapter 5-2 Address Tag Library for the use of address tag library and user-defined tags)
Indirect assignment	Set the current address offset. The current register address changes with the indirectly specified register value, that is, $Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3)$. For example: the current register address is PSW0, if the indirectly specified address is PSW100; When the value of PSW100 register is 0, the register controlling this element is still PSW0; When the value of PSW100 register is 1, the register controlling this element is PSW1 (and so on)

Example:

(1) Read/input using the same address (that is, do not check read/write using different addresses)

🗌 Rea	d / write u	sing differer	nt addr	esses	
Read / v	write addre	ss			
Equip	本地设备			~	Set
Addre	PSW	~	0	0	
Data	Word 🗸	Unsignec 🗸		tana atala	
type	R		ct des	signation	

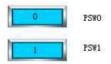
Input 1 to PSW0, and PSW0 displays 1; The number entered is the number displayed.



(2) Read/input using different addresses (that is, check read/write using different addresses)

ad ac	ldress			117	6
Equip 本地设备		~		Set	
Addre	PSW	~	0	0	
Data	Word 🗸	Unsignec 🗸		tana ata a	
type			ctues	ignation	
Write a	ddress				
Equip	本地设备			~	Set
Addre	PSW	~	1	0	
Data	Word 🗸	Unsignec 🗸	ct das	ignation	
type			ci des	ignation	

At this time, the input box can set the value of PSW0, but the box displays the value of PSW1. For example: input 1 to PSW0, PSW0 still displays 0, and PSW1 displays 1.



Data input

ic pre Data inpuScale co Notice	neric input attribute Appeara
Display Leading 0)
Number of digits	
Integer digit	Decimal 0
Limit	
Enable input upper limit	Enable input lower limit
Upper 9999	Lower 0
limit Reg	limit Reg
L neg	incy.
Enable alert color	
Upper	v twinkle
limit Lower	
limit	
	control
Input order	
Enable input order	d, it
Enable input order After the input is completed	
Enable input order	d, it ♥ Group 1 ♥
 Enable input order After the input is completed Input order (eyboard setting up 	
Enable input order After the input is completed Input order	
 Enable input order After the input is completed Input order (eyboard setting up 	
 Enable input order After the input is completed Input order Seyboard setting up Enable pop-up keyboard Display upper and lower 	Group 1
 Enable input order After the input is completed Input order Input order Enable pop-up keyboard Display upper and lower Keyboard number [25010]Key 	♥ Group 1 ♥
 ☐ After the input is completed Input order 1 Keyboard setting up ✓ Enable pop-up keyboard ☐ Display upper and lower 	♥ Group 1 ♥
 Enable input order After the input is completed Input order Input order Enable pop-up keyboard Display upper and lower Keyboard number [25010]Key 	♥ Group 1 ♥
 Enable input order After the input is completed Input order Input order Enable pop-up keyboard Display upper and lower Keyboard number [25010]Key 	♥ Group 1 ♥

D	isplay	After checking, the user will not see the entered value, and the value will be displayed as "* * *"
Lea	ading 0	If the number of data digits does not meet the requirements, it shall be supplemented with 0 in
		front (For example, if the integer digits and decimal digits are set as 5 and 0 respectively for data
		input, and the leading 0 is selected, the input data will be 23 and 00023 will be displayed in the
		input box)
Nui	nber of	Set the integer and decimal digits displayed in the register
d	ligits	
Limit	Enable	Set the upper limit of data input, which can also be specified by register
	input	If the upper limit is set to 10, 10 can be entered normally according to the input sequence, and 11
	upper	is not allowed to be entered.
	limit	
	Enable	Set the lower limit of data input, which can also be specified by register.
	input	If the lower limit is set to 10, you can normally enter a value of 10 or more. If you enter a value
	lower	below 10, the value in the current register will be displayed
	limit	
	Enable	Set the warning color of upper and lower limits and whether it flickers
	alert	If the same register is used in other locations and exceeds the upper and lower limits set by this
	color	register, a warning prompt will be triggered

Pattern	There are touch control and bit control. Touch control means to start the input program by touching						
	the control. For bit control, start the input program when the specified coil is ON. In bit control state, when the coil is ON, trigger the keyboard to pop up, click ENT to input data, and click ESC						
	to cancel the keyboard pop up						
Input order	If it is enabled, the keyboard will jump to	the corresponding input	t control in order to set different				
1	groups.						
	Example 1 (touch control): The data inp	ut controls PSW0, PSW	1. PSW2 and PSW3 are set as				
	follows.	-)	-				
	Input order	Input order					
	✓ Enable input order	Enable input order	PSW1				
	After the input is completed, it	After the input is comple	eted, it				
	Input order 1 😨 Group 1 🕏	Input order 2	Group 1				
	- Input order	- Input order					
	PSW2	Enable input order	PSW3				
	After the input is completed, it	After the input is completed	ted, it				
	Input order 1 🕼 🗹 Group 2	Input order 2	Group 2				
	PSW0 and PSW1 are in same group, and	the order is 1 and 2 respe	ectively: PSW2 and PSW3 are in				
	same group, and the order is 1 and 2 respe	-					
	When you click PSW0, the keyboard w		ring the value, click ENT, the				
	keyboard will automatically jump to PSV		u				
	value input of PSW0 and PSW1 (if yo	•	· •				
	keyboard will not jump to the next compo	-					
	selected component. If you want to input						
	Similarly, enter PSW2 and PSW3.	, you need to enex the h	ext component again for input),				
	Example 2 (bit control): The data input	a controla DSWO DSW1	1 DSW2 and DSW2 are get as				
	follows.		i, 15 w 2 and 15 w 5 are set as				
	Pattern	Pattern					
	Pattern		Bit control PSB0				

Pattern	Pattern
Touch If the second s	◯ Touch
Input order PSW0	Input order PSW1
Enable input order	✓ Enable input order
Input order	Input order 🛛
Pattern	Pattern
○ Touch	Touch If the second s
Input order	Input order
PSW2	✓ Enable input order
Input order	Input order 2

PSW0 and PSW1 are in same group, which are controlled by coil PSB0, and the sequence is 1 and 2 respectively; PSW2 and PSW3 are in same group, which are controlled by coil PSB1 in order of 1 and 2 respectively;

When PSB0 and PSB1 are set to OFF, clicking PSW0, 1, 2 and 3 will not pop up the keyboard.

When PSB1 is set to OFF and PSB0 is set to ON, the keyboard will jump out for PSW0. After entering the value, click ENT, the keyboard will automatically jump to PSW1. After entering the value, click ENT to complete the value input of PSW0 and PSW1; Similarly, when PSB0 is set to OFF, PSW2 and PSW3 are input when PSB1 is set to ON.

When PSB0 and PSB1 are both set to ON, the input program will be triggered in the order of PSW0, PSW2, PSW1 and PSW3. To cancel the input point ESC.

	 1. The keyboard pops up when the control coil is set to ON. After input, the control coil (PSB0, PSB1) will not reset automatically. If you want to re-enter data, please manually reset to ON to trigger. 2. It is recommended that the control coil be set to reverse state. If it is set to instantaneous ON, take PSW0 and PSW1 above as an example. If PSB0 is set to instantaneous ON, a keyboard will pop up for PSW0 at the same time of triggering. Click ENT after input, and the keyboard will disappear. Only PSW0 can be input. Even if it is triggered again, the keyboard will only be displayed below PSW0, and the setting of PSW1 cannot be completed.
	○ Set on ○ Set off ● Reverse ○ Instantaneous on
Varibaand	Set whether to non-ye the book and book and style selection, book and non-ye position, whether
Keyboard setting	 Set whether to pop up the keyboard, keyboard style selection, keyboard pop-up position, whether to display upper and lower limit values, etc I. The keyboard suffix UL is the keyboard with upper and lower limits, such as [25009] KeyBoard_Num_01UL 2. Users can also customize the keyboard. (1) Select the project tree - user form, right-click Add to create a new user form. (2) "Used as keyboard display" should be selected for name and size of user-defined system form . Page information Page information Page information (2) "Used as keyboard display" should be selected for name and size of user-defined system form . (2) "Used as keyboard display" should be selected for name and size of user-defined system form . (3) "Used as keyboard display" should be selected for name and size of user-defined system form . (4) "Used as keyboard display" should be selected for name and size of user-defined system form . (4) "Used as keyboard display" should be selected for name and size of user-defined system form . (5) "Used as keyboard display" should be selected for name and size of user-defined system form . (5) "Used as keyboard display" of the intermetion of the screen of the metided of the screen of the screen
	Ok Cancel
	3 Place the required character keys on the user form. Refer to 4-2-12 for the use of character
	keys. In the following example, 0-9, ESC and ENT keys are placed.

K80 1 2 3 K83 4 5 855 K85 7 8 9 K85 0 ESC ENT
(4) Open the numeric input control, and a newly created "User defined keyboard" will appear at
the keyboard number. After selecting, click OK
Keyboard setting up
✓ Enable pop-up keyboard
Display upper and lower
Keyboard number [25010]KeyBoard_Num_01 Keyboard po [05001]User Defined keyboard [25009]KeyBoard_Num_01UL [25010]KeyBoard_Num_01 [25011]KeyBoard_Hex_01 [25011]KeyBoard_Hex_01
(5) At this time, click the numeric input control, and the displayed keyboard is the keyboard defined by yourself
66 1 2 3 4 5 6 7 8 9 0 ESC ENT

■ Scale conversion

It is divided into input scale conversion and display scale conversion. After checking, the input or read value can be converted according to the set scale; The conversion effect can be simulated in the software, as shown below:

100	Numenc	: input attribut		
Basic pro	Data inp Scale cor Notice Appea	ara Security Pos	ition	1
✓ In Dat	nput scale conversion	Conversi		
	irce	on value		
Upp		Upper	9999	
limi	Reg	limit	🗌 Reg	
Lov		Lower	0	
limi	It Reg	limit	Reg	
Previe				
设备	Lower limit 值 ^{of} HMI	Data source	Upper limit Lower limit	
0	= 0 +(0	- 0	9999 - 0	
1			9999 - 0	
			Data Data source source	
- 🗸 D	isplay scale conversion			
Dat sou	ta Irce	Conversi on value		
Upp		Upper	9999	
limi	Reg	limit	Reg	
Lov	wer 0	Lower	0	
limi	it 🗌 Reg	limit	Reg	
Previe	ew			
HM	Lower limit /I of 设备值	Data source	Upper limit Lower limit	
0	= 0 +(0	- 0) x	
			9999 - 0 Data Data	
			source source	
			Determine Cancel	
e The	input data is obtained fro	om the origin	nal data in the operating of	bject register after
on conv	version. To select this funct	tion, you nee	d to set the upper and lowe	er limits of the data
sour	ce and conversion value. The	he upper and	lower limits can be constant	t or specified by the
_		-	the HMI, and the conversi	
	ten into the lower communic	cation device	after proportional conversion	n
ale The	display data is obtained fr	rom the origin	nal data in the monitoring	object register after
on conv	version. Selecting this func	tion requires	setting the upper and lowe	r limits of the data
sour	ce and conversion value. The	he upper and	lower limits can be constant	t or specified by the

Display scale	The display data is obtained from the original data in the monitoring object register after
conversion	conversion. Selecting this function requires setting the upper and lower limits of the data
	source and conversion value. The upper and lower limits can be constant or specified by the
	register. The data source is the data in the lower communication equipment, and the
	conversion value is the data displayed on the HMI after proportional conversion
Upper lower limit	Limit the upper and lower limits of the input (can be specified through the register)



If the "enable input upper/lower limit" (as shown in the left figure below) and "input/display scale

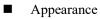
conversion" (as shown in the right figure below) are checked at the same time, the upper and lower limits of data display are the upper and lower limits of scale conversion.

Numeric input attribute	Numeric input attribute
Basic pre Data inplScale co Notice Appeara Security Position	Basic proData inp Scale cor Notice Appeara Security Position
Display Leading 0 Number of digits Integer digit 4 Decimal 0	Input scale conversion Data Source Upper 9999 limit Reg
Limit ✓ Enable input upper limit Upper 9999 Lower 0 limit limit	Lower 0 Lower 0 limit Reg
Reg Reg Enable alert color Upper Imit twinkle Lower twinkle	Lower limit 分子に置いた。 ひ = 0 + f 0 - 0 1x - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
Pattern © Touch O Bit control Input order Enable input order	Display scale conversion Conversion Data Conversion source on value Upper 9999 limit Reg Lower 0 limit Reg
Keyboard setting up Image: Enable pop-up keyboard Display upper and lower Keyboard number [25010]KeyBoard_Num_01 Keyboard pop-up position Middle_Center	Preview Lower limit Data source Upper limit Lower limit HMI of 设密信 source 9999 0 0 = +f 0 - 0 1x 92990 - 0 Data source Data source Data source
Determine Cancel	Determine Cancel

Notice

Num	neric input attrib	bute
np Scale co Notice A	ppeara Security F	Position
fter writii		
ation bit		
on	🔾 Write	off
本地设备	~	Set
PSB 🗸	0 0	
	ct designation	
word		
本地设备	~	Set
PSW Y	0 0	
Word 🗸 Unsignec 🗸	ct designation	
0		
	np Scale co Notice A ter writi tion bit on 本地设备 PSB	ter writii tion bit on

Notice	If selected "notification bit" or "notice word", the coil can be set ON/OFF, the register can be set
	value (notice word) before or after writing.



				✓ Use pictu	res	
_				Status	0	*
	00	000		Name	data_01	
				Catego	n svg	
				Dimens	ic 80 × 30	
	Change	e appearance			M	ore pictures
Frai	me	e appearance olid color	~	Border		ore pictures
orde	me r style S		~	Border		
	me r style S		~	Border 常规		
orde oefa	me r style S ce		~			

Use picture	Set whether to use pictures
Change	You can click "Change Appearance" to change the appearance, or click "More Pictures" to select a
appearance	custom picture
Fill	Fill style (solid/gradient) and fill color can be set
Frame	Border style and color can be set
Typeface	You can set the font, size, color and display position of the font in the control (you can also check
	the adaptive size, that is, drag the mouse to change the size of the part, and the number size will
	change accordingly)

Security setting

	Numeric input attribute
ic pro Data inp	Scale co Notice Appeara Security Position
Operation con	firmation delay
Confirmat	tion before
Display contro	1
✓ Enable	
When	隐藏 ~
Equip	本地设备 v Set
Addre	PSB 🗸 0. 0.
Enable	sta ON v ct designation
Enable control	
✓ Enable	
Equip	本地设备 v Set
Addre	PSB ¥ 1 0
Enable	sta ON v ct designation
User rights	
The perm	ission will be cancelled after the operation is completed
When the	user has no permission range, a prompt window will pop up
Hide the	component when the user has no permission range
Required	user 无 Y

Operation	The waiting time (s) can be set. If this option is checked, a pop-up window "Are you sure to
confirmation	execute this operation" will pop up when operating components. If you do not click "OK" or
delay	"Cancel" within the set waiting time, the pop-up window will disappear by itself and this
	operation will fail. If you click "OK" within the waiting time, the operation is successful.
	Clicking "Cancel" is invalid
Display control	Use bits to control whether to display the part. When the condition is not met, the component
	will be hidden
Enable	After selected, it will perform the display control
When validation	When validation fails, the component is hidden by default and cannot be changed
fails	
Address	Set the target coil of bit control
Enable status	Set ON status to be valid or OFF status to be valid.
	For example: if the equipment is checked as shown in the above figure, the bit control is PSB0,
	and it is hidden when validation fails, and the enable status is ON, then when the status of
	PSB0 is ON, the component is normally displayed, and when the status of PSB0 is OFF, the
	component is hidden and not displayed.
Enable control	The bit limit can be set (the enable state of the enable control can be customized). When the
	enabling conditions are met, the component can be used normally (as shown in the figure
	above: when the PSB1 is in the ON state and the trigger conditions are met at the same time,
	the component can be used; if the PSB1 is in the OFF state, the component is still unavailable
	even if the trigger conditions are met)
Indirect	Set the current address offset. The current coil address changes with the indirectly specified
assignment	register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example, the current

	coil address is PSB0, if the indirectly assigned address is PSW100; When the value of
	PSW100 register is 0, the coil controlling this element is still PSB0; When the value of
	PSW100 register is 1, the coil controlling this element is PSB1 (and so on)
User rights	Set the controlled authority level.
	After setting the permission range of the required user, the following three functions can be
	checked as required:
	(1) Cancel the permission after the operation: if this option is not checked, the corresponding
	level password must be entered for each operation of this part. After checking, you only need
	to enter it successfully once.
	(2) When the user has no permission range, a prompt window will pop up.
	(3) When the user has no permission range, hide the component.

There are a second	1		(Far. 41. a		
I nere are severa	l combinations wher	i ingging in•	TRAPTER HSEAT HSE	er rionts see eng	nter 1-1-1 Rue
	i compinations when	1 10221112 111.	I UI UIC USC UI USC	LI IIZIILISA SUU UIIA	

- System Settings – user rights)

Ì

When a user logs in and does not migrate out, his/her permissions will remain. If you migrate out, the user will have no corresponding permission.

(1) When the user has no permission range, a prompt window will pop up

ill be cancelled af	ter the operation is c	completed
s no permission ra	nge, a prompt wind	ow will pop up
ent when the use	has no permission r	ange
权限1	~	
	s no permission ra ient when the user	ill be cancelled after the operation is o s no permission range, a prompt wind ent when the user has no permission r

When this option is checked, if the user rights is not logged in, clicking the control will pop up a prompt window:

汉限提示	×
🚫 操作级别高	,您没有此权限
用户登录	确定

Click User Login, and it can be used normally after successful login. If the user has logged in and has this permission, he can directly operate the component without a prompt window.

(2) Hide the component when the user has no permission range

Jser rights			
The permission w	ill be cancelled aft	er the operation is compl	eted
When the user ha	s no permission ra	nge, a prompt window wi	ll pop up
✓ Hide the compor	ient when the user	has no permission range	
Required user	权限1	0.00	

When this option is checked, the component will be hidden if there is no login user permission; If the user has logged in, the component will display normally.

(3) The permission will be cancelled after the operation is completed & When the user has no permission

range, a prompt window will pop up.

User rights			
The permission w	ill be cancelled aft	er the operation is completed	1
✓ When the user has	s no permission ra	nge, a prompt window will po	p <mark>up</mark>
Hide the component	ent when the use	has no permission range	

When this option is checked, if the user rights is not logged in, click the component and a prompt window will pop up:

又限提示	7		×
6	● 操作级别高,	您没有此权限	
	用户登录	确定	

Click the user log in. After logging in successfully, operate the component once. After the first operation, the system automatically cancels the permission limit of the component. Even after logging out, the component can be clicked normally. If the user has logged in, the component will display normally, and clicking the component will not pop up a prompt window.

(4) The permission will be cancelled after the operation is completed & Hide the component when the user has no permission range.

ill be cancelled aft	er the operation	is completed
s no permission ra	nge, a prompt wi	ndow will pop up
ent when the user	has no permissio	n range
权限1		
	s no permission ra lent when the user	ill be cancelled after the operation s no permission range, a prompt wi tent when the user has no permissio

When this option is checked, if user rights is not logged in, the component will be hidden. After successful login, the component will be operated once. After the first operation, the system will automatically cancel the permission limit of the component. Even after logging out, the component will not be hidden. If the user has logged in, the component will display normally.

Position

Same to chapter 4-1-1 straight line position part.

4-2-4. Numerical display

1. Click the "Part/Display/Numerical Display" in the menu bar or the icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click numerical display or select numerical display, right-click, and select Attribute.

Basic property

	Numeric display properties
	Basic propData displ Scale con Appearan Security s Position
	Control ID DD0
	Describe
	Read address
	Equip 本地设备 v Set
	Addre PSW V 0 0 Data Word V Unsigner V
	type ct designation
Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Read address	Set the displayed address. At the same time, set whether there is offset (i.e., indirect assignment)
Equipment	Current equipment port for communication
Address	Set target register number
Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed, Unigned,
	Floating number
Set	Click "Set" to enter the address setting interface, where you can set and use system registers
	and user-defined tags. You can click the address tag library below or the project tree - library -
	address tag library to set the tags (see chapter 5-2 Address Tag Library for the use of address
	tag library and user-defined tags)
	Address
	Equipme nt 本地设备 v Statio 0 n
	Address type Vulner defined label
	Address 0 System register
	数据类型 Word V Unsigned V Address [Extent: 0 - 9999]
	format
	Address tag
	Determine Cancel Application
Indirect	Set the current address offset. The current register address changes with the indirectly
assignment	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example: the
	current register address is PSW0, if the indirectly specified address is PSW100; When the
	value of PSW100 register is 0, the register controlling this element is still PSW0; When the
	value of PSW100 register is 1, the register controlling this element is PSW1 (and so on)

Data display

Displa	y 🔽 Leading 0		
Number	of digits		
Inte	ger digit 4	Decimal	0
.imit			
🖌 Enabl	e alarm upper limit	🗌 Enable	e alarm lower limit
Upper	9999	Lower	0
limit	Reg	limit	Reg

	Display	After checking, the user will not see the entered value, and the value will be displayed as "* * *"
Leading 0		If the number of data digits does not meet the requirements, it shall be supplemented with 0
		in front (For example: the integer digits and decimal digits are set as 5 and 0 respectively
		for data display. When leading 0 is selected, enter 23 and 00023 will be displayed in the
		input box)
N	umber of digits	Set the integer and decimal digits displayed in the register
Limit	Enable alarm	Set the upper limit of alarm input, which can be specified by register
	upper limit	
	Enable alarm	Set the lower limit of alarm input, which can be specified by register
	lower limit	
	Enable alert color	Set the warning color of the upper and lower limits and whether it flickers

■ Scale conversion

ADDED VAL		ispl Scale co		spearange		unity :	11031				
✓ Scale Data source	con	version					nversi value				
Upper	99	999			Upper		99	9999			
limit		Reg				li	mit		Reg		
Lower	0					ower	0				
limit		Reg				h	mit	🗌 Reg			
Preview											
		Lower limit of		1211-11		Data			Upper limit		Lower limit
HMI	2) 11 - 11		i	设备值	1	sour			9999	•	0
0	=	0	+(0	Ø		0) x	9999		0
									Data source		Data source

Scale conversion Set whether to perform scale conversion. After checking, the read value can be converted according to the set scale, and the conversion effect can be previewed in the software

		The display data is obtained from the original data in the monitoring object register after				
conversion. Selecting this function requires setting the upper and lower limits of t						
	source and conversion value. The upper and lower limits can be constant or specified b					
	register. The data source is the data in the lower communication equipment, as					
		conversion value is the data displayed on the HMI after proportional conversion				
	Upper/lower limit	Limit the upper and lower limits of data (can be specified by register)				

■ Appearance

			✓ Use pict	ires	
			Status	0	Ŷ
	****		Name	data_01	
			Catego	on svg	
			Dimen	sic 80 × 30	
_	nange appearance		Dimen		re picture:
✓ Frame		~	Dimen	Mo	re picture:
Cl Frame Border style ypeface		~		Mo	

Same to chapter 4-2-3 numerical input appearance part.

■ Security setting

Display contro	1		
When	隐藏 🖌		
Equip	本地设备	∽ Set	
Addre	PSB 🗸 0	0	
Enable	sta ON ∨ ct d	lesignation	
User rights			
✓ Hide the	component when the user	has no permission range	
Required	user 权限1	¥	

Same to chapter 4-2-3 numerical input security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-5. Character input

Click the "Part/Input/Character Input" icon in the menu bar or the icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the border through the border points.
 When setting attributes, you can set them in the attribute box that pops up when placing components, or you

can double-click character input or select character input and right-click to select Attribute.

Basic property

	Character display properties
Ba	asic properAppearance Security set Position
	Control ID CD0
	Describe
	Coding rules ASCII ✓ 空字符显示为空格
	✓ Pass ✓ High and low
1	Read address
	Equip 本地设备 V Set Addre pSW V 0 0 Numb 1 I I
	er of stom data type
Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Coding rules	ASCII (select "blank characters are displayed as spaces"), UTF-8 and UTF-16 encoding rules
C	can be selected
Password	After checking, the user will not see the entered value, and the value will be displayed as "* * *"
High and low	After checking, the display order is changed to "low byte+high byte"
	Character Input Display
	not selected high and low bod A bod C
	select high and low bade B bade D
	ABCD is set to DWORD type of the same address.
	Input abcd to A normally, then A and C display abcd, and B/D displays badc because high/low
	byte conversion is checked.
	Input abcd to B normally. At this time, B and D display abcd, and A/C displays badc because
	high/low byte conversion is not checked.

	Note: 1. Taking Xinje PLC as an example, the display of characters in the monitor is consistent
	with that of characters without checking high/low byte conversion.
	2. High low byte conversion refers to the conversion of both input and display of character.
	Check the character input of high-low byte conversion. When using the keyboard to input ab,
	perform high-low byte conversion, write ba into the register, read ba from the register when
	reading, and then perform high-low byte conversion to display ab
Read address	Set the read/write address (refer to chapter 4-2-3 Numerical Input for the description of the
	read/write address)
	Read address
	Equip 信捷 XD/XL/XG系列 (Modbus TCP 🖌 Set
	Addre D v 5000 1
	Numb 1 DWord V
	er of stom data type
Equipment	Current equipment port for communication
Address	Set target register number
Register number	Set the character input length. One register can display two characters
Custom data type	The default is Word. If it is checked, it can be customized as DWord and DDWord (note that
	the data type selected here should be exactly corresponding to the data type used by the PLC
	during monitoring, otherwise the characters will be displayed opposite to the high and low
	bytes of monitoring)
Set	Click "Set" to enter the address setting interface, which can also be used to set system
	registers. Character input/character display temporarily does not support the use of address tag
	library.
	Address
	Equipme
	nt direct n
	type
	Address 5000 System register
	寄存器数 1 DWord ~
	Address [Extent: 0 - 16777215] format
	Address tag
	Determine Cancel Application

■ Character input

Cha	racter input _l	properties	×
Basic pro Character No	tice Appeara	Security Position	
Pattern	it control		
Input order	8		
After the input	is completed, i	it	
Input order	1	🗘 🗌 Group	
Keyboard setting up		ka-, gol,	
Enable pop-up	keyboard		_
Keyboard number		ard_Asc_01U	
Keyboard po	p-up position	Middle_Center	
located in the direct	t / indirect wind ith the current	d, or the keyboard is dow, or the keyboard is in component, do not check	

Pattern	There are touch control and bit control. Touch means to start the input program by touching the								
	component, and bit control means to start the inp	out program when the specified coil is ON. In the							
	bit control state, when the coil reaches ON, trigger the keyboard to pop up, click								
	data, and click ESC to cancel the keyboard pop up.								
Input order	If it is enabled, the keyboard will jump to the corresponding input component, it can set different								
	groups.								
	Example 1 (touch control): The character input	component PSW0, PSW1, PSW2 and PSW3 are							
	set as follows:								
	Input order PSW0	Input order PSW1							
	After the input is completed, it	After the input is completed, it							
	Input order 1 🗘 🗸 Group 1	Input order 2 Group 1							
	Input order PSW2	Input order PSW3							
	After the input is completed, it	✓ After the input is completed, it							
	Input order 1 Sroup 2 1	Input order 2 Group 2 V							
	PSW0 and PSW1 are in same group, and the orde	er is 1 and 2 respectively; PSW2 and PSW3 are in							
	same group, and the order is 1 and 2 respectively.								
	When you click PSW0, the keyboard will pop up. After entering characters, click ENT, the								
	keyboard will automatically jump to the bottom of PSW1. After entering characters, click ENT to								
	complete the character input of PSW0 and PSW3	l (if you check "No more input in sequence after							
	input", the keyboard will not jump to the next co	omponent in the same group after completing the							
	input at the selected component, and if you wan	t to input, you need to click the next component							
	again for input); Similarly, enter PSW2 and PSW	3.							
	Example 2 (bit control): The character input con	nponent PSW0, PSW1, PSW2 and PSW3 are set							
	as follows.								

Pattern O Touch Bit control PSB0 PSW0	Pattern PSW1 O Touch O Bit control PSB0
Input order	Input order
Input order	Input order 2
Pattern O Touch Bit control PSB1 PSW2	Pattern O Touch Bit control PSB1 PSW3

PSW0 and PSW1 are in same group, which are controlled by coil PSB0, and the sequence is 1 and 2 respectively; PSW2 and PSW3 are in same group, which are controlled by coil PSB1 in order of 1 and 2 respectively;

When PSB0 and PSB1 are set to OFF, clicking PSW0, 1, 2 and 3 will not pop out the keyboard. When PSB1 is set to OFF and PSB0 is set to ON, the keyboard will jump out under PSW0. After input, press ENT, the keyboard will automatically jump to the bottom of PSW1. After input, press ENT to complete the input of PSW0 and PSW1; Similarly, when PSB0 is set to OFF, PSW2 and PSW3 are input when PSB1 is set to ON.

When PSB0 and PSB1 are both set to ON, the input program will be triggered in the order of PSW0, PSW2, PSW1 and PSW3. Click ESC to cancel the input.

1. The keyboard pops up when the control coil is set to ON. After input, the control coil (PSB0, PSB1) will not reset automatically. If you want to re-enter data, please manually reset and trigger again.

2. It is recommended that the control coil be set to reverse state. If it is set to instantaneous ON, take PSW0 and PSW1 above as an example. If PSB0 is set to instantaneous ON, a keyboard will pop up below PSW0 at the same time of triggering. Click ENT after input, and the keyboard will disappear. Only PSW0 can be input. Even if it is triggered again, the keyboard will only be displayed below PSW0, and the setting of PSW1 cannot be completed.

	Action O Set on	○ Set off	• Reverse	O Instantaneous on
Keyboard	Set whether to pop up the	keyboard, keyboa	ard style selection,	and keyboard pop-up position
setting up				

Notice

Before writA			
Write		⊖ Write	e off
Equip	本地设备	~	Set
Addre	PSB 🗸	0 0	
		ct designation	
✓ Notice			x (2 (1 (1 (1 (1 (1 (1 (1 (1 (1
 Equip	本地设备	~	Set
 Addre	PSW 🗸	0 0	
Data type	Word 🗸 Unsignec 🗸	ct designation	

Appearance

				✓ Use pictu	ires
				Status	0
		ΔΔ		Name	data_0
		1000		Catego	nsvg
				Dimen	sic80 × 3
	Cha	inge appeara	ance	More pict	ures.
-	Frame				
Во	rder style	Solid color	· · · · ·	Border color	~
Тур	eface				
Ту	微软雅黑		~	常规	~
Co		~	Size	12	~

Same to chapter 4-2-3 numerical input appearance part.

Security setting

Operation cor	firmation de	lay			
🗹 Confirma	tion before	Waitin second		1	
Display contro	d				
✓ Enable					
When	除藏	~			
Equip	本地设备			Ŷ	Set
Addre	PSB	×	0	0	
Enable	sta ON	*	ct design	nation	
- Enable contro	-				
🗹 Enable					
Equip	本地设备			~	Set
Addre	PSB	Ý	0	0	
Enable	sta ON	*	ct desigr	nation	
User rights					
The perm	ission will be	e cancellee	after the	e operati	on is
When the	user has no	permissio	n range, a	a promp	t
		when the	iser has n	o nermi	ssion
	component	when the	1961 1103 11	o permit	

Same to chapter 4-2-3 numerical input security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-6. Character display

Click the "Part/Display/Character Display" in the menu bar or the icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the border through the border points.
 When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click Character Display or select Character Display, right-click, and select Attribute.

Basic

Pasis propo	Character display properties
Basic proper	Appearance Security set Position
Contro	ID CD0
Descrit	De la
Coding rules	ASCII V 公子付显示为全倍
Equip	本地设备 v Set
Addre	PSW 🗸 0 0

Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Coding rules	ASCII, UTF-8 and UTF-16 encoding rules can be selected
Password	After checking, the user will not see the entered value, and the value will be displayed as "* * *"
High and low	After checking, the display order is changed to "low byte+high byte"
	Character Input Display
	not selected high and low abcd A abcd C
	select high and low bade B bade D
	ABCD is set to DWORD type of the same address.
	Input abcd to A normally, then A and C display abcd, and B/D displays badc because high/low
	byte conversion is checked.
	Input abcd to B normally. At this time, B and D display abcd, and A/C displays badc because
	high/low byte conversion is not checked.
	Note: 1. Taking Xinje PLC as an example, the display of characters in the monitor is consistent
	with that of characters without checking high/low byte conversion.
	2. High low byte conversion refers to the conversion of both input and display of character.
	Check the character input of high-low byte conversion. When using the keyboard to input ab,
	perform high-low byte conversion, write ba into the register, read ba from the register when
	reading, and then perform high-low byte conversion to display ab
Read address	Set the read address
Equipment	Current equipment port for communication
Address	Set target register number
Register number	Set the character input length. One register can display two characters
Custom data type	The default is Word. If it is checked, it can be customized as DWord and DDWord (note that
	the data type selected here should be exactly corresponding to the data type used by the PLC
	during monitoring, otherwise the characters will be displayed opposite to the high and low
Set	bytes of monitoring) Click "Set" to enter the address setting interface, which can also be used to set system
501	registers. Character input/character display temporarily does not support the use of address tag
	library
	Address X
	Equipme 本地设备 V Statio 0
	Address PSW V User defined label
	Address 0 System register
	斎存韶数 1 Word V
	Address [Extent: 0 - 9999] format
	Address tag
	Determine Cancel Application



asic prope Appea	arance Security set	Position			
		•	Use pictu	res	
		1	Status	0	~
	AA		Name	data_01	
	a men		Catego	ŋsvg	
4			Dimens	ic 80 × 30	
Chai	nge appearance			Mo	<u>re pictures</u>
Border style	Solid color	v	Border	color	~
- Typ <mark>e</mark> face		~ 岸	规	~	
		S. 19		~	
Typeface	v s	ize 12		~	

Same to chapter 4-2-3 numerical input appearance part.

Security setting

c prope Appe	arance Security sett Po	osition	
Display contro	l		
Enable			
When	隐藏 >		
Equip	本地设备	*	Set
Addre	PSB v	0 0	
Enable	sta on 🗸 🗸	ct designation	
Jser rights			
Hide the	component when the u	ser has no permis	ssion range
Required	user 权限1	×	
	on range		

Same to chapter 4-1-1 straight line security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-7. Chinese input

1. Click the "Part/Input/Chinese Input" icon in the menu bar or the $\stackrel{\texttt{PX}}{\square}$ icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Modify the length and width of the border through the border points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Chinese Input" or select "Chinese Input" and right-click to select Attributes.

Basic property



Control ID	It is used for sys	stem management control	and cannot be operated by users		
Describe	Can be used to a	comment on the purpose	of this component		
Coding rules	It defaults to GI	B2312 and cannot be mod	ified		
Read/write	Set the read/w	rite address (refer to c	hapter 4-2-3. description of read/wi	rite address of	
address	numerical input)			
Equipment	Current equipm	ent port for communication	on		
Address	Set target registe	er number			
Register number	Setting characte	er input length, different	encoding rules, and different Chinese	characters that	
	can be displayed	d in one register;			
	UTF-8: 3 registe	ers can display 2 Chinese	characters;		
	GB2312, Unico	de: 1 register can display	ay 1 Chinese character.		
Custom data type	The default is W	lt is Word. If checked, it can be customized as DWord or DDWord			
Set	Click "Set" to e	nter the address setting i	; interface, where you can set and use system register		
	Address tag libr	ary is not supported for C	Chinese input/Chinese display		
		Address	×		
	Equipme本地设	쑵	Statio 0		
	Address PSW	~v	User defined label		
	type				
	Address 0		System register		
	寄存器数 1	Word Y			
	Address [Exten format	it:0-9999]			
			Address tag		
		Determi	ne Cancel Application		

Input

	Chinese input
asic prop Inpu	It Notice Appearan Security st Position
When passy	word * is checked, the contents of the register are displayed as ***** "
Pattern To	uch 🔘 Bit control
Input order	
🗹 Enable ir	put order
After the	input is completed, it
Input	order 1 🕃 🗆 Group
Keyboard set	ing up op-up keyboard
Contractor and Contractor	mber [25007]KeyBoard_Asc_01U ~ ard pop-up position Middle_Center ~
Keyboard pre	view
1 1 2	KB2 KB3 KB4 KB6 KB6 KB7 KB3 KB9 KB40 Backspace
Q W	In the second
Caps KB2	
Esc Z	RB3 KB3 KB3 KB3 KB3 KB3 KB3 KB45 KB3 KB45 KB45
Shift	KB32 KB39 KB47 + + + + + + + + + + + + + + + + + + +

ts "* * *"	ext, and the text will be displayed as "* *	After checking, the user will not see the entered t	Password		
y touching the	There are touch control and bit control. Touch means to start the input program by touching the				
l is ON. In the	component, and bit control means to start the input program when the specified coil is ON. In t				
ENT to enter	bit control state, when the coil reaches ON, trigger the keyboard to pop up, click ENT to en				
	p.	data, and click ESC to cancel the keyboard pop u			
an set differen	prresponding input component, it can set c	If it is enabled, the keyboard will jump to the co	Input order		
		groups.			
l PSW3 are se	mponent PSW0, PSW1, PSW2 and PSW3	Example 1 (touch control): The Chinese input co			
		as follows:			
	Input order PSW1	Input order PSW0			
	After the input is completed, it	After the input is completed, it			
Group 1	Input order 2 🕄 🗹 Group	Input order 1 🗘 🗹 Group 1 束			
	Input order PSW3	Input order PSW2			
	After the input is completed, it	After the input is completed, it			
Group 2 🌻	Input order 2 🔹 Group	Input order 1 Group 2			
ıd	Input order 2 💽 🗹 c er is 1 and 2 respectively; PSW2 and				

keyboard will automatically jump to the bottom of PSW1. After entering characters, click ENT to complete the character input of PSW0 and PSW1 (if you check "No more input in sequence after input", the keyboard will not jump to the next component in the same group after completing the input at the selected component, and if you want to input, you need to click the next component again for input); Similarly, enter PSW2 and PSW3.

Example 2 (bit control): The Chinese input component PSW0, PSW1, PSW2 and PSW3 are set as follows.

Pattern O Touch Bit control PSB0 PSW0	Pattern O Touch Bit control PSB0 PSW1
Input order	Input order
Input order	Input order
Pattern O Touch Bit control PSB1 PSW2	Pattern O Touch Bit control PSB1 PSW3
Input order	- Input order
Input order	Input order 2

PSW0 and PSW1 are in same group, which are controlled by coil PSB0, and the sequence is 1 and 2 respectively; PSW2 and PSW3 are in same group, which are controlled by coil PSB1 in order of 1 and 2 respectively;

When PSB0 and PSB1 are set to OFF, clicking PSW0, 1, 2 and 3 will not pop out the keyboard.

When PSB1 is set to OFF and PSB0 is set to ON, the keyboard will jump out under PSW0. After input, press ENT, the keyboard will automatically jump to the bottom of PSW1. After input, press ENT to complete the input of PSW0 and PSW1; Similarly, when PSB0 is set to OFF, PSW2 and PSW3 are input when PSB1 is set to ON.

When PSB0 and PSB1 are both set to ON, the input program will be triggered in the order of PSW0, PSW2, PSW1 and PSW3. Click ESC to cancel the input.

1. The keyboard pops up when the control coil is set to ON. After input, the control coil (PSB0, PSB1) will not reset automatically. If you want to re-enter data, please manually reset and trigger again.

2. It is recommended that the control coil be set to reverse state. If it is set to instantaneous ON, take PSW0 and PSW1 above as an example. If PSB0 is set to instantaneous ON, a keyboard will pop up below PSW0 at the same time of triggering. Click ENT after input, and the keyboard will disappear. Only PSW0 can be input. Even if it is triggered again, the keyboard will only be displayed below PSW0, and the setting of PSW1 cannot be completed.

Action

O Set on

Reverse

O Instantaneous on

Keyboard Set whether to pop up the keyboard, keyboard style selection, and keyboard pop-up position setting

○ Set off

Notice

		pearand Security se	
Before wri <mark>Af</mark>			
✓ Notifica			
Write	o n	🔘 Write	e off
Equip	本地设备	~	Set
Addre	PSB v	0 0	
		ct designation	
✓ Notice	word		
Equip	本地设备	~	Set
Addre	PSW 😽	0 0	
Data	Word 🗸 Unsignet 🗸	ct designation	
type		et designation	
Write	0		
value			

If Enabled, you can choose to write the target coil ON, OFF or the target register to a constant Notice (notification word) before or after writing.

■ Appearance

Ch	iinese input	
asic prop Input Notice Appeara	IncSecurity se Posi	tion
	✓ Use picture	res
	Status	0 ~
ф	Name	data_01
	Catego	Ŋsvg
	Dimens	c80 × 30
	Uniterio	
Change appearance		More pictures
Change appearance		
]	More pictures
✓ Frame]	More pictures
✓ Frame Border style Solid color ✓]	More pictures
 ✓ Frame Border style Solid color ✓ Typeface Ty 微软雅黑 ✓ 	Border	More pictures

Same to chapter 4-2-3 numeric input appearance part.



The font for Chinese input can only be Microsoft Yahei by default, and no other font can be

set.

Security setting

			Chinese i	input	
Basic prop	Input	Notice	Appearant Secu	rity se Pos	sition
Operatio	on confir	mation de	lay		
✓ Cor	nfirmatio	n before	Waiting time seconds	1	
Display	control				
🗹 Ena	ble				
When		隐藏	~		
E	quip 🛃	地设备		~	Set
A	ddre p	SB	~ 0	0	
E	nable st	ON	v ct desig	gnation	
Enable c	ontrol				
🗹 Ena	ble				
	1000	地设备		~	Set
Λ	ddre p	SB	✓ 0	0	
E	nable sta	ON	✓ ct desig	gnation	
User rig	nts				
🗌 The	permiss	i <mark>on</mark> will be	cancelled after th	e operatio	on is completed
Vh	en the u	ser has no	permission range,	a prompt	window will pop up
🗌 Hid	e the co	mponent	when the user has	no permis	ssion range
		Interest Ch	版1	an - e e waara	energy and the Heller
Ke	quired u	ser 🔛	HX1	~	

Same to chapter 4-2-3 numeric input security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-8. Chinese display

Click "Parts/Display/Chinese Display" in the menu bar or icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Modify the length and width of the border through the border points.
 When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Chinese Display" or select "Chinese Display" and right-click to select Attributes.

Basic property

Chinese display					
Basic properAppearance Security set Position					
Control ID TD0					
Describe					
Coding GB2312 rules Read address Equip 本地设备 v Addre pSW v Numb 1 stom data type					
It is used for system management control and cannot be operated by users					
Can be used to comment on the purpose of this component					
You can choose from three encoding rules: GB2312, UTF-8, and Unicode.					
Set the read address					
Current equipment port for communication					
Set target register number					
Set the character input length. One register can display two characters					
The default is Word. If checked, it can be customized as DWord or DDWord					
Click "Set" to enter the address setting interface, which can also be used to set system					
registers. Address tag library is not supported for Chinese input/Chinese display					
Address					
Equipme 本地设备 v Statio 0					
Address PSW V User defined label					
Address 0 System register					
寄存器数 1 Word v					
Address [Extent: 0 - 9999]					
format					
Address tag Determine Cancel Application					

■ Appearance

C	hinese display	
sic prope Appearance Security set	Position	
	✓ Use picture	res
	Status	0 ~
	Name	data_01
MA.	Categoi)svg
	Dimensi	c80 × 30
Change appearance		More pictures
Fill		
Fill pattern Solid color	✓ Fill colo	r v
Manual (2017)	Y Fill colo	×
Fill pattern Solid color	 Fill colo Border of 	
Fill pattern Solid color	_	
Fill pattern Solid color Frame Border style Solid color	_	
Fill pattern Solid color Frame Border style Solid color Typeface Ty 微软雏果	♥ Border (

Same to chapter 4-2-3 numeric input appearance part.

The font displayed in Chinese can only be Microsoft Yahei by default, and no other font can be set.

Security setting

歳 ~			
备	~	Set	
~	0 0		
~ c	t designation		
nent when the us	er has no permi	ission range	
权限1	~		
	资格 v v v v v v v v v v v v v v v v v v v	a v 0 0 0 ct designation onent when the user has no permited as the second sec	Set Set Control S

Same to chapter 4-1-1 straight line security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-9. Indicator light

Displays the status of the specified coil.

1. Click the "Parts/Key/Indicator light" in the menu bar or the icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the control through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when you place components, or you can double-click the Indicator light or select the Indicator light and right-click to set attributes.

Basic property

	Indicator light
Basic prope	Appearance Security set Position
Contr Descr	ol ID LIO
Read ac	dress
Equip	本地设备 v Set
Addre	PSB 🗸 0 0
	ct designation
logic	
۲	Positive logic O Negative logic
✓ twin	nkle
۲	On status flashes 🔘 Off status flashes
	Flicker frequency 0.1 10 V

Control ID	It is used for system management control and cannot be operated by users			
Describe	Can be used to comment on the purpose of this component			
Read address	Set the read address			
Equipment	Current equipment port for communication			
Set	Click "Set" to enter the address setting interface, where you can set and use system registers			
	and user-defined tags. You can click the address tag library below or the project tree - library -			
	address tag library to set the tags used (see chapter 5-2 Address Tag Library for the use of			
	address tag library and user-defined tags)			
	Address			
	Equipme nt nt Address 本地设备 v Statio 0 n Address PSB v User defined label Address 0 v System register Address format			
	Address tag Determine Cancel Application			
Address	Set the target coil number			
Indirect	Set the current address offset. The current coil address changes with the indirectly specified			
assignment	register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example, the current			

	coil address is PSB0, if the indirectly assigned address is PSW100; When the value of
	PSW100 register is 0, the coil controlling this element is still PSB0; When the value of
	PSW100 register is 1, the coil controlling this element is PSB1 (and so on)
Logic	Select positive logic or negative logic (positive logic: coil is on in ON state, coil is off in OFF
	state; negative logic: coil is off in ON state, coil is on in OFF state)
Twinkle	Select whether to flash, including ON status flashing, OFF status flashing and flashing
	frequency setting

Appearance

maic	ator light
sic prope Appearance Security set Position	on
	✓ Use pictures
	Status 0 🗸
OFF	Name lamp_05_b
	Categorysvg
	Dimensic 60 × 60
Change appearance	More pictures
	More pictures
State 0 · V Disp	play text Apply fonts to each
Text O Multiling	
	OFF
Typeface	
Typeface Ty 微软雅黑 🗸	常规 ~

Appearance	You can check whether to use pictures. If you check, you can set the appearance of the	
	indicator in the $(0, 1)$ two states. After selecting the state in the upper right corner, click	
	"Change Appearance" or click "More Pictures" to select a custom picture to change	
	appearance	
Fill	Fill style and color can be set	
State	You need to check "Display Text" to set the text prompt content of the indicator in the $(0, 1)$	
	two states, and you can set whether to use multiple languages (see chapter 4-7 for the specific	
	use of multiple language libraries). Check the drop-down list to set the font corresponding to	
	the corresponding status of the indicator light, or click the "apply fonts to each status" button	
	to set the fonts in all statuses	
Typeface	You can set the font, size, font style, color and the display position of the font in the	
	component (you can also check the adaptive size, that is, drag the mouse to change the size of	
	the component, and the text size will change accordingly)	

Security setting

	Indicator	light	×
Basic prope Appea	France Security set Position		
─ Display contro ☑ Enable			
When	隐藏 イ		
Equip Addre	本地设备 PSB v 0	✓ Set	
Enable	135 100	0 Ination	
User rights			
🗹 Hide the d	component when the user has i	no permission range	
Required permissio		*	

Same to chapter 4-1-1 straight line security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-10. Indicator button

Control the status of the specified coil and display the status of the specified coil.

1. Click "Parts/Key/Indicator Button" in the menu bar or in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Modify the length and width of the control through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the "Indicator Button" or select the "Indicator Button" and then right-click to select Attribute.

Basic property

		intuic	ator button	
sic prop	eAppearan	ce Function bi Securi	ity set Position	
Contr	OID LBO			
Descr	ibe			
Rea	ad <mark>/</mark> write u	sing different addre	sses	
Read / \	write addre	ss		
Equip	本地设备		∽ Set	
Addre	PSB	~ O	0	
		ct desig	gnation	
Operati	on			
۲	Set on	◯ Set off	O Reverse	O Instantaneous on
logic				
۲	Positive lo	gic	O Negative lo	gic
🗌 twi	nkle			
۲	On status	flashes	Off status fl	ashes
		Flicker frequer	ncy 0.1 秒	y .

Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Read/write using	If not checked, the same address is used for reading and writing (refer to chapter 4-2-3
different addresses	description of reading/writing address for numerical input)
Read address	Set the displayed address; You can also set whether there is an offset (that is, indirect
	assignment)
Write address	Set the write in address; You can also set whether there is an offset (that is, indirect
	assignment)
Equipment	Current equipment port for communication
Address	Set the target coil number
Set	Click "Set" to enter the address setting interface, where you can set and use system
	registers and user-defined tags. You can click the address tag library below or the
	project tree – library - address tag library to set the tags (see chapter 5-2 Address Tag
	Library for the use of address tag library and user-defined tags)

		Address					
		Equipme nt nt Address 本地设备 「 n 0 n 1 Address PSB 「 User defined label Address 0 「 System register Address [Extent : 0 - 9999] Address tag Determine Cancel Application					
Indirect	assignment	Set the current address offset. The current coil address changes with the indirectly specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For					
		example, the current coil address is PSB0, if the indirectly assigned address is PSW100;					
		When the value of PSW100 register is 0, the coil controlling this element is still PSB0;					
		When the value of PSW100 register is 1, the coil controlling this element is PSB1 (and					
		so on)					
Operation	Set ON	Set the control coil to logic 1 state					
	Set OFF	Set the control coil to logic 0 state					
	Reverse	Set the control coil to the opposite state					
	Instantaneous	When the key is pressed, the coil is in logic 1 state, and when the key is released, the					
	ON	coil is in logic 0 state					
Ι	ogic	Select positive logic or negative logic (positive logic: coil is on in ON state, coil is off					
		in OFF state; negative logic: coil is off in ON state, coil is on in OFF state)					
Tv	vinkle	Select whether to flash, including ON status flashing, OFF status flashing and flashing					
		frequency setting					
Enat	ole audio	When the trigger conditions are met, the customized audio can be played. At present,					
		this function is only available in the TS5L series. For specific usage, see chapter 5-4					
		Use of Audio Resource Library					

■ Appearance

	Indi	cator button		
ic prope Appearance Fun	ction bi Secu	rity set Position		
		✓ Use pictu	res	
		Status	0	~
OFF		Name	lampbutton_06	b
		Catego	ŋsvg	
		Dimens	ic60 × 60	
channe		1		
Change appe	arance		MOLE	pictures
/ Fill				
ate 0	• 🔽 D	isplay text A	oply fonts to each	
ate 0 Tevt O Multil	1	isplay text A	oply fonts to each	
	1	isplay text A	oply fonts to each	
	1	isplay text A	oply fonts to each	
	1		oply fonts to each	
	1	isplay text Αξ	oply fonts to each	
	1		pply fonts to each	
	1		pply fonts to each	
Tevt O Multil	1		pply fonts to each	
Tavt O Multil	1		7	
Tavt O Multil	ina	OFF	2	

Appearance	You can check whether to use pictures. If you check, you can set the appearance of the			
	indicator in the (0, 1) two states. After selecting the state in the upper right corner, clie			
	"Change Appearance" or click "More Pictures" to select a custom picture to change the			
	appearance			
Fill	Fill style (solid/gradient) and fill color can be set			
State	You need to check "Display Text" to set the text prompt content of the indicator in the $(0, 1)$			
	two states, and you can set whether to use multiple languages (see chapter 4-7 for the specific			
	use of multiple language libraries); Check the drop-down list to set the font corresponding to			
	the corresponding status of the indicator light, or click the "apply fonts to each status" button			
	to set the fonts in all statuses			
Typeface	You can set the font, size, font style, color and the display position of the font in the			
	component			

Function binding

		irSecurity set Position	
Кеу	When pressed v		
		Add to	
		Delete	
		Move	
		Move	

Calling the C function can complete more and more complex operations and communications. Function use is equivalent to chapter 4-2-15 item (10) function key - function call.

Key operation		Set the operation mode, including pressing and releasing
Function item Add to		Add function
Delete		Delete the function
Move		Move the target function up one physical location
up		
Move		Move the target function down one physical location
	down	

	函数调	旧	
功能函数	,	✓ Edit	Function
• 串	行执行 〇并行	可执行	

Function	Select the function to be called from the drop-down menu
Edit/Function Click to enter the function editing page	
Serial execution The task calling this function can only continue the subsequent processing after the	
	function is executed. Therefore, this function must have appropriate exit conditions
Parallel execution	Call the task of this function, create a new task to execute the function, and the caller will
	continue the subsequent processing

Security setting

	Indicator button
	Basic prope Appearance Function bi Security set Position
	Operation confirmation delay
	Confirmation before Waiting time
	☐ Key delay
	Display control
	✓ Enable When Pestate
	Rojes V
	Equip 本地设备 V Set Addre PSB 0 0 0
	Enable sta ON v ct designation
	Enable control
	✓ Enable
	Equip 本地设备 v Set
	Addre psp v 1 0 Enable sta ON v ct designation
	User rights The permission will be cancelled after the operation is completed
	✓ When the user has no permission range, a prompt window will pop up
	Hide the component when the user has no permission range
	Required user 权限1 ~
	Determine Cancel Application
Operation	The waiting time (s) can be set. If this option is checked, a pop-up window "Are you sure to
confirmation	execute this operation" will pop up when operating components. If you do not click "Confirm"
delay	or "Cancel" within the set waiting time, the pop-up window will disappear by itself and this
delay	operation will fail. If you click "OK" within the waiting time, the operation is successful. If
	you click "Cancel", the operation is invalid.
Key delay	The operation will not take effect until the set delay time is long pressed
Display control	Use bits to control whether to display the component. When the condition is not met, the
Display control	component will be hidden
Enable	When checked, display control will be enabled
When validation	Set the display of the component when validation fails
fails	Set the display of the component when vandation fails
Address	Set the target coil for bit control
Enable status	Set ON status to be valid or OFF status to be valid.
Linuoie status	For example, if the equipment is checked as shown in the figure above, the bit control is PSB0,
	and it is hidden when the verification fails, and the enabling status is ON, then the component
	will be displayed normally when the status of PSB0 is ON, and it will not be displayed when
	the status of PSB0 is OFF

Enable control	The bit limit can be set (the enabling state of the enable control can be customized). When the			
	enabling conditions are met, the component can be used normally (as shown in the figure			
	above: when the PSB1 is in the ON state and the trigger conditions are met at the same time			
	the component can be used; if the PSB1 is in the OFF state, the component is still unavailable			
	even if the trigger conditions are met)			
User rights	Set the controlled authority level.			
	After setting the permission range of the required user, the following three functions can be			
	checked as required:			
	(1) Cancel the permission after the operation: if this option is not checked, the corresponding			
	level password must be entered for each operation of this component. After checking, you only			
	need to enter it successfully once			
	(2) When the user has no permission range, a prompt window will pop up			
	(3) When the user has no permission range, hide the component.			



the user rights function please refer to chapter 4-2-3 numerical input.

Position

Same to chapter 4-1-1 straight line position part.

4-2-11. Multi-state indicator

Different states are displayed according to different values of registers.

1. Click "Part/Key/Multi state Indicator" in the menu bar or icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the control through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the "Multi state Indicator" or select the "Multi state Indicator", right-click and select Attribute.

Basic properties

	Multi status indi	icator		×
Basic prop	Position Security set			
Cont	trol ID ML0			^
Register				
Read a	ddress			
Equip	本地设备	Set		
Addre	PSW ~ 0 0			
Data	Word V Unsigner V			
Numb of Sta	tes 3			
State	Condition	twinkle	Frequency	
0	PSW0 == 0		1	
1	PSW0 = = 0		1	
2	PSW0 == 0		1	
3	其他(错误)		1	
Attribu	ute			
) Ext	tent 🔘 Bit			
Rea	d == ~ A None ~	A 0	Use re	
Illegal	● Display error status 显示空白	Error notific	cation	
				*
<			>	
		Determi	ne Cancel	
		Determin	the cancer	8

Control ID	It is used for system management control and cannot be operated by users				
Describe	Can be used to comment on the purpose of this component				
Register	The word register or multi bit can be selected, and the status of the status number will be				
	displayed if the condition of the status number is met				
	Word register: display different states according to different values of the set register.				
	Multi bit: different states are displayed according to different values of registers formed				
	by coils				
Read address	Set the read address				
Equipment	Current equipment port for communication				
Address	Set target register number or coil number				
Data type	Byte-8Bit; Word-16Bit; DWord- 32Bit; DDWord -64Bit; BCD format; Hex; Signed value;				
	Unigned value; Floating number				
Set	Click "Set" to enter the address setting interface, where you can set and use system				
	registers and user-defined tags. You can click the address tag library below or the project				
	tree - library - address tag library to set the tags (refer to chapter 5-2 Address Tag Library				
	for the use of address tag library and user-defined tags)				
	Address				
	Equipme 本地设备 v Statio 0 n				
	Address type User defined label				
	Address 0 System register				
	数据类型 Word V Unsigned V Address [Extent:0-9999]				
	format				
	Address tag				
	Determine Cancel Application				

Indirect equipment	Sat the automat address offsat	The automate and	1 address shares	with the indiractly		
Indirect assignment	Set the current address offset. The current coil address changes with the indirectly					
	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example,					
	the current coil address is PSB0, if the indirectly assigned address is PSW100; When the					
	value of PSW100 register is 0, the coil controlling this element is still PSB0; When the					
	value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)					
Number of state	Set the number of statuses. The lo	ower status disp	lay table will synch	ronously increase or		
	decrease the number of statuses					
State display table	After setting in the lower attribute	e column, you c	an directly observe	the set status in the		
1 2	status display table (you cannot m		•			
	attribute)	5 5	,	5 8		
Attribute – word	状态数 5					
register						
10515101	状态条件	闪烁	频率			
	0 D0 == 1		0.1秒/次			
	1 D0 < 2		0.1秒/次			
	2 D0 <= 3		1			
	3 D0 < 2 And D0 > 1		1			
	4 D0 < 2 Or D0 > 1		1			
	5 其他(错误)		1			
	属性					
	● 范围 ○ 位					
	读取值 < V A None V	A 2	使用寄存器			
	☑ 闪烁 频率 0.1 秒 ∨					

(1) Range: Numerical comparison method: "<", ">", "<=", ">=", "==", "!="; None: only one numerical value. Such as status 0, 1, 2.

And: Both numerical judgment conditions must be met. Such as state 3.

Or: Any numerical value can be judged to meet the conditions. Such as state 4.

Blinking: When flashing is checked, the flashing frequency can be set, and the setting will be displayed in the status display table above synchronously.

(2) Bit: take PSW100 as an example.



When PSW100.0 is ON, PSW100 flashes at a frequency of 0.1 seconds per time and the font display status is 0.

When PSW100.1 is ON, PSW100 font display status 1.

	When PSW100.2 is ON, PSW100 flashes at the frequency of 1 second/time and the font		
	display status is 2.		
	When PSW100.3 is OFF, PSW100 font displays status 3.		
	When PSW100.4 is OFF, PSW100 flashes at the frequency of 2 seconds/time and the font		
	display status is 4.		
	If the status of PSW100.0-PSW100.4 is inconsistent with the set conditions, PSW100 font		
	will display error status.		
Attribute – Multi bit	The comparison method of word register is to directly read the internal value of the		
Attribute – White off			
	register to determine whether the conditions are met. However, the value of the register		
	cannot be directly read by the combination of multi bit. The value of the register is		
	represented by the combination of multiple coils. The following describes how the multi		
	bit combination represents the value of the register		
	多状态指示灯 ? ×		
	基本属性 外观 安全设置 位置		
	按件ID ML0		
	寄存器機式 ○ 字寄存器 ● 多位组合		
	读取地址 设备信捷 XD/XL/XG系列 (Modbus RTU) ~ 设置		
	地址 M ~ 0 1		
	位数4 🗧 间接指定		
	状态数 5		
	状态 条件 闪烁 频率		
	0 多位组合 == 1 2 0.1秒/次		
	1 多位组合 < 2		
	2 多位组合 <= 3 / 3 多位组合 < 2 And 多位组合 > 1 /		
	4 多位组合 < 2 Or 多位组合 > 1 /		
	5 其他(错误) /		
	雇性 ● 若闻		
	读取值 < v A And v > v B A 2 使用寄存器		
	□ 闪烁 频率 0.1 秒 ✓ B 1 □ 使用寄存器		
	非法输入 🖲 显示错误状态 🔿 显示当前状态 🔲 错误通知		
	As shown in the figure above, the number of digits set is 4. The coil states of M0 M1 M2		
	As shown in the figure above, the number of digits set is 4. The coil states of M0, M1 and M3 represent different values. The minimum number is 0 and the maximum nu		
	and M3 represent different values. The minimum number is 0 and the maximum number		
	(1) When M0 is on and others are off, it represents the value 1		
	(2) When M1 is on and others are off, it represents the value 2		
	(3) When M2 is on and others are off, it represents the value 4		
	(4) When M3 is on and others are off, it represents the value 8		
	(5) When all are off, it represents the value 0		
	(6) When it is fully lit, it represents the value 15		
	And so on		
Illegal input	When the value of the register does not meet any of the set states, the checked state (error		
	state or current state) will be displayed, and the error notification can be selected (the set		
	coil light will be on when illegal input occurs)		
	6 6 6 6 6 6 6 6 6 6 6 6		



If the conditions meet multiple settings at the same time, the top status will prevail.

Appearance

	Multi s	tatus indicator		×
Basic prope Appearance S	ecurity set Po	sition		
		✓ Use pictu	res	Â
		Status	0	~
状态0		Name	multilamp_01_a	
- Stride		Catego	ŋsvg	
		Dimens	ic 60 × 60	
	- Ober of and a lo		A Reservation	
Change app	earance		More pict	<u>tures</u>
I¶ FIII				-
State 0	• 🗹 Di	splay text App	ly fonts to each sta	te
Tovt O Mult	ilina			
	4	犬态0		
- Typeface				
Ty 微软雅黑	*	常规	¥	
Co	Size	40	~	
	0.00000	12	•	~

Appearance	You can check whether to use pictures. If you check, you can set the appearance of the
	multi state indicator in multiple states. After selecting the state in the upper right corner,
	click "change appearance" or click "more pictures" to select a custom picture to change the
	appearance
Fill	Fill style (solid/gradient) and fill color can be set
Status	You need to check "Display Text" to set the text prompt content of the multi status indicator
	in different states, and you can set whether to use multiple languages (refer to chapter 5-1
	Label Multiple Languages for the specific use of multiple language libraries). Tick the
	drop-down list to set the font corresponding to the corresponding status of the multi status
	indicator, or click the "apply fonts to each status" button to set the font of all statuses
Typeface	The font, size, color and alignment can be set (the display position of the font in the
	component)



The appearance states have pictures for 3 states and 1 error state by default. When there are more than 4 states, you need to manually add the appearance in different states in the gallery.

Security setting

Display contro	earance Security sett Position	
✓ Enable		
When	隐藏 ~	
Equip	本地设备 v Set	
Addre	PSB 🗸 0 0	
Enable	sta ON 🗸 ct designation	
User rights		
✓ Hide the	component when the user has no permission range	
Required	l user 权限1 🗸	

Same to chapter 4-1-1 straight line security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-12. Key

Controls the status of the specified coil.

1. Click the "Part/Key/Key" in the menu bar or the 🥯 icon in the basic part bar of the control window, move

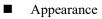
the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Modify the length and width of the component through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click the "key" or select the "key" and right-click to select attribute.

Basic property

asic prop	Appearance Function bi Security sel Position
Contr	rol ID BTO
Desci	ibe
Write a	deress
Equip	本地设备 v Set
Addre	
	ct designation
Action	

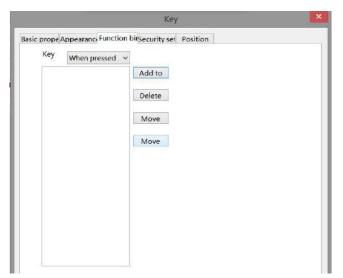
C	ontrol ID	It is used for system management control and cannot be operated by users		
		It is used for system management control and cannot be operated by users		
	Describe Can be used to comment on the purpose of this control rite address Set the write in address			
	luipment	Current equipment port for communication Set the target coil number		
A	Address Set the target coil number Set Click "Set" to onter the address setting interface where you can set and you give			
Set		Click "Set" to enter the address setting interface, where you can set and use system		
		registers and user-defined tags. You can click the address tag library below or the project		
		tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for		
		the use of address tag library and user-defined tags)		
		Address		
		Equipme 本地设备 v Statio 0		
		Address type User defined label		
		Address 0 System register		
		Address [Extent:0-9999] format		
		Tomat		
		Address tag		
		Determine Cancel Application		
Indirec	et assignment	Set the current address offset. The current coil address changes with the indirectly		
		specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example,		
		the current coil address is PSB0, if the indirectly assigned address is PSW100; When the		
		value of PSW100 register is 0, the coil controlling this element is still PSB0; When the		
		value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)		
Action	Set ON	Set the control coil to logic 1 state		
	Set OFF	Set the control coil to logic 0 state		
	Reverse	Set the control coil to the opposite state		
	Instantaneous	When the key is pressed, the coil is in logic 1 state, and when the key is released, the coil		
	ON	is in logic 0 state		
Ena	able audio	When the trigger conditions are met, the customized audio can be played. At present, this		
		function is only available in the TS5L series. For specific usage, see chapter 5-4 Use of		
		Audio Resource Library		
		· · · · · · · · · · · · · · · · · · ·		



		inter and a second		
<i>.</i>		Use pictu	h a	-
		Status	0	v.
	OFF	Name	button_05_a	
		Catego	nsvg	
-		Dimens	ic80 × 42	
1	Change appearance		More picture	es
~				
			1	
ate	0 🗸 🗸 🗸	splay text Ap	ply fonts to each	
ate		splay text Ap	ply fonts to each	
		OFF	ply fonts to each	
Te			ply fonts to each	
Te	wt O Multilino	OFF	ply fonts to each	

Appearance	You can check whether to use pictures. If you check, you can set the appearance of the key in
rippediation	the $(0, 1)$ two states. After selecting the state in the upper right corner, click "Change
	Appearance" or click "More Pictures" to select a custom picture to change the appearance
Fill	Fill style (solid/gradient) and fill color can be set
State	You need to check "Display Text" to set the text prompt content when the key is in the (0, 1)
	two states, and you can set whether to use multiple languages (see chapter 5-1 Label Multiple
	Languages for the specific use of multiple language libraries). Tick the drop-down list to set
	the font corresponding to the corresponding state of the button, or click the "apply fonts to
	each state" button to set the font in all states
Typeface	You can set the font, size, color and display position of the font in the component

Function binding



Same to chapter 4-2-10 indicator button.

■ Security setting

	Кеу	
c prope Appea	arance Function bi Security set	Position
Operation con Confirmat Key delay		1
Display contro	1	
Enable		
When	降点 イ	
Equip	本地设备	✓ Set
Addre	PSB ¥ 0	0
Enable	sta ON 🗸 ct desig	nation
Enable control		
Enable		
Equip Addre	本地设备	✓ Set
Addie		0
Enable	sta ON v ct desig	Ination
Jser rights		
all all a second and a second as	ission will be cancelled after th	e operation is completed
When the	user has no permission range,	a prompt window will pop up
	component when the user has	
		no permasion runge
Required	user 权限1	~

Same to chapter 4-2-10 indicator button security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-13. Multi state key

Pressing this component can control the status of different coils or set different values for registers.

1. Click "Part/Key/Multi state Key" in the menu bar or in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the control through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the "Multi state key" or select the "Multi state key" and right-click to select Attribute.

Basic property

		Multi state key 🛛 📉
Basic prope	ert Appearance	unction bin Security sett Position
Contr Descr Register Read ac	ibe	ister Multi bit
Equip	本地设备	✓ Set
Addre		~ 0 0
Number of States Curren	3	Set value 1 V
state State	Set value	Action
O	Jet Value	PSB0置ON; PSB1置OFF; PSB2置OFF;
		1 United and a president state of the state
1	2	PSB0置OFF; PSB1置ON; PSB2置OFF;

Control ID	It is used for system management control and cannot be operated by users	
Describe	Can be used to comment on the purpose of this component	
Register	Multi bit or word register can be selected	
Multi bit	The status of the coil in different states can be set (as shown in the figure above, when the	
	number of bits is set to 3, the number of states is at most 2 ³ =8. You can pull down the	
	current state to set the value in each state, and the value represented by the lighting of	
	PSB0, PSB1, and PSB2 coils will be automatically generated under the action bar)	
Equipment	Current equipment port for communication	
Address	Set the target coil address	
Indirect assignment	Set the current address offset. The current coil address changes with the indirectly	
	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example,	
	the current coil address is PSB0, if the indirectly assigned address is PSW100; When the	
	value of PSW100 register is 0, the coil controlling this element is still PSB0; When the	
	value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)	
Set	Click "Set" to enter the address setting interface, where you can set and use system	
	registers and user-defined tags. You can click the address tag library below or the project	
	tree - library - address tag library to set the tags used (see chapter 5-2 Address Tag Library	
	for the use of address tag library and user-defined tags)	

	Address
	Equipme 小批设备 、 Statio 0 n Address type Address 0 Address format [Extent: 0 - 9999]
	Address tag Determine Cancel Application
Word register	The register value in different states can be set (as shown in the figure below, the current state can be pulled down to set the value in each state. When the state is 0, the value of PSW0 is 1; when the state is 1, the value of PSW0 is 2; when the state is 2, the value of PSW0 is 4)
	Multi state key × Basic propert Appearance Function bin/Security sett Position Control ID MB0 Describe
	1 2 PSW0置2 2 4 PSW0置4

■ Appearance

		1110	ilti state key		
c pr	oper Appearance F	unction bin S	Security sett Posi	tion	
	\frown		Use pictur	es	
			Status	0	
	((状态0		Name	lampbut	ton_24_a
			Catego) svg	
			Dimensi	c 80 × 80	
2	a		1		N.C.
_	Change appe	arance	1		More pictur
1	Fill				
	0	• 🗸 D	isplay text Ap	ply fonts t	o each
tate			hisplay text Ap	ply fonts t	o each
tate			isplay text Ap	ply fonts t	o each
tate			hisplay text Ap	ply fonts t	o each
ate				ply fonts t	o each
ate			risplay text Ap 状态0	ply fonts t	o each
ate				ply fonts t	o each
ate				ply fonts t	o each
ate Ο τ	ayt 🔘 Multi			ply fonts t	o each
) T2			状态0	ply fonts t	o each
ate) τ₂	avt O Multil	ina	状态0		o each

Appearance	You can check whether to use pictures. If you check, you can set the appearance of the
	multi state key in different states. After selecting the state in the upper right corner, click
	"Change appearance" or click "More pictures" to select a custom picture to change the
	appearance
Fill	Fill style (solid/gradient) and fill color can be set
State	You need to check "Display Text" to set the text prompt content of the multi status key in
	different states, and you can set whether to use multiple languages
Typeface	You can set the font, font style, size, font style, color and the display position of the font
	in the component

Function binding

asic prope	r Appearance Functio	h bindSecurity sett Position
Key	When pressed v	
		Add to
		Delete
		Move
		Move

Same to chapter 4-2-10 indicator button.

Security setting

	Multi state	e key	
asic proper App	earance Function bin Security	setti Positio	on
 Operation con Confirmat Key delay 		1	X.
Display contro	í		
✓ Enable			
When	院道、		
Equip	本地设备	v 5	iet
Addre	PSB V 0	0	
Enable	sta on v ct desig	nation	
Enable control			
🗹 Enable			
Equip	本地设备	¥ 5	iet
Addre	PSB v 0	0	
Enable	sta ON 🗸 ct desig	nation	
User rights			
The perm	ission will be cancelled after the	e operation i	is completed
When the	user has no permission range,	a prompt wi	ndow will pop up
	component when the user has r	@ @	43 (3) (3)
Required		~	ang dan 🥂 sa k

Same to chapter 4-2-10 indicator button security setting part.

Position

Same to chapter 4-1-1 straight line position part.

4-2-14. Character key

1. Click the "Part/Key/Character Key" in the menu bar or the *ico* icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the control through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the "character key" or select the "character key" and then right-click to select attribute.

■ Basic property

ic prope App	earance Security set	Position	
Control ID	КВО		
Describe			
eyboard entr	у		
nput ASCII ()x 31		

Control ID	It is used for system management control and cannot be operated by users		
Describe	Can be used to comment on the purpose of this component		
Keyboard entry	Enter the ASCII code corresponding to the key. The ASCII code value corresponding to		
	the commonly used keys is shown below:		
	1-0X31 $2-0X32$ $3-0X33$ $4-0X34$ $5-0X35$ $6-0X36$ $7-0X37$		
	8-0X38 9-0X39 0-0X30 ESC-0X1B ENT-0XD		
Enable audio	When the trigger conditions are met, the customized audio can be played. At present, this		
	function is only available in the TS5L series. For specific usage, see chapter 5-4 Use of		
	Audio Resource Library		

Appearance

	Character key
	Basic prope AppearanceSecurity set Position
	✓ Use pictures Status 0 Name keyboard_01_a Categorysvg Dimensic60 × 42
	Change appearance More pictures
	State 0 - Isplay text Apply fonts to each
	1 Typeface Ty Arial v Mal v Co v Size 24 v Ali Middle_Center v
Appearance	You can check whether to use pictures. If you check, you can set the appearance of the key in
	the (0, 1) two states. After selecting the state in the upper right corner, click "Change Appearance" or click "More Pictures" to select a custom picture to change the appearance
Fill	Fill style (solid/gradient) and fill color can be set
State	You need to check "Display Text" to set the text prompt content when the key is in the (0, 1)
	two states, and you can set whether to use multiple languages (see chapter 5-1 Label Multiple
	Languages for the specific use of multiple language libraries). Tick the drop-down list to set
	the font corresponding to the corresponding state of the button, or click the "apply fonts to

	each state" button to set the font in all states
Typeface	You can set the font, size, color and display position of the font in the component

Security setting

	Cha	racter key		
c prope Appea	arance Security set Positi	on		
Operation con	firmation delay			
🕑 Key delay	Delay tim	e: 01s 1	¢	
Display contro	I			
✓ Enable				
When	隐藏 マ			
Equip	本地设备	~	Set	
Addre	PSB v 0	0	i lesse vil	
Enable	sta ON v ct	t designation		
- nable control				
Enable				
Equip	本地设备	v	Set	
Addre	The second se			
Enable	sta ON 🗸 C	t designation		
Jser rights				
The perm	ission will be cancelled a	fter the operati	on is completed	
When the	user has no permission i	ange, a prompt	t window will pop up	
Hide the	component when the use	er has no permis	ssion range	
Required		v		

Key delay	The operation will not take effect until the set delay time is long pressed
Display control	Use bits to control whether the part is displayed. When the conditions are not met, the
	component is hidden. It is hidden by default and cannot be modified
Enable	When checked, display control will be enabled
When validation	Set the display of the component when validation fails
fails	
Address	Target coil with positioning control
Enable state	Set ON status to be valid or OFF status to be valid.
	For example, if the equipment is checked as shown in the figure above, the bit control is PSB0,
	and it is hidden when the verification fails, and the enable state is ON, then the component will
	be displayed normally when the status of PSB0 is ON, and it will not be displayed when the
	status of PSB0 is OFF.
Enable control	The bit limit can be set (the enable state of the enable control can be customized). When the
	enabling conditions are met, the component can be used normally (as shown in the figure
	above: when the PSB1 is in the ON state and the trigger conditions are met at the same time,
	the component can be used; if the PSB1 is in the OFF state, the component is still unavailable
	even if the trigger conditions are met)
User rights	Set the controlled authority level.
	After setting the permission range of the required user, the following three functions can be
	checked as required:
	(1) Cancel the permission after the operation: if this option is not checked, you need to enter
	the corresponding level password for each operation of this part. After checking, you only need

to enter it once
(2) When the user has no permission range, a prompt window will pop up
(3) When the user has no permission range, hide the component.



Refer to chapter 4-2-3 for the use of user rights function.

Position

Same to chapter 4-1-1 straight line position part.

4-2-15. Function key

Pressing this component can realize multiple functions at the same time.

1. Click the "Part/Key/Function Key" icon in the menu bar or the icon in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel it. Modify the length and width of the control through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click Function Key or select Function Key and right-click to select Attribute.

■ Function

unction Appearance Security set F	osition	
Control ID FB0		
Servers Servers Indexes		
Describe		
Action 按下状态		
□ 启动声音		
Selected		Optional Features
设置线圈PSB0		设置线圈
设置数据 PSW0	Add to	设置数据
0.0110		四则运算
	Delete	数据传输
	Delete	画面切换
		调用窗口
	Move up	关闭窗口
		导入CSV
	Newspaperson	导出CSV
	Move down	上传配方
		下载配方
		函数调用

Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Action	Set the operation mode, including press state and release state
Enable audio	When the trigger conditions are met, the customized audio can be played. At present, this
	function is only available in the TS5L series. For specific usage, see chapter 5-4 Use of

		Audio Resource Library
Operations	Add to	Add functions
Delete		Delete functions
	Move	Move the target option function up for one physical location
	up	
	Move	Move the target option function down for one physical location
	down	
Optional fo	eatures	Select the corresponding function, click the "Add to" button to add the function item to
		the left list - Selected Functions. Double click the selected function to enter the setting
		window

(1) Set coil

– Operati	es Security settin	9-1				
 Set 		🔿 Set off		0	Negate	
- Write ad	Idress					
Devic	本地设备		4	Settin		
Addre	PSB	✓ 0				
		🗌 Indir	ect			
			01.000			

Operation	Set ON	Set the control coil to logic 1 state
	Set OFF	Set the control coil to logic 0
	Reverse	Set the control coil to the opposite state
Write ad	dress	Set the write in address
Equipm	nent	Current equipment port for communication
Addre	ess	Set target coil address
Indirect ass	ignment	Set the current address offset. The current coil address changes with the indirectly
		specified register value, that is, Dx[Dy]=D[x+Dy value] (x, y=0, 1, 2, 3). For example,
		the current coil address is PSB0, if the indirectly assigned address is PSW100; When the
		value of PSW100 register is 0, the coil controlling this element is still PSB0; When the
		value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)
Set		Click "Set" to enter the address setting interface, where you can set and use system
		registers and user-defined tags. You can click the address tag library below or the project
		tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for
		the use of address tag library and user-defined tags)

	Address	×		
Equipm nt Address type Address	本地版画 PSB v	 Statio n User defined label System register 		
Address format	Extent: 0 - 9999]			
	Determ	Address tag ine Cancel Application		
Security setting Set the permis	sion	e and whether to pop	up a prompt v	window when there is no
Basir (thibutes Security settings			
Use I Us	er permission When the user has no authority, a ser Required rmissions	prompt window will pop up		
		Determine Cancel	Application	

```
(2) Set data
```

Basic Attribut	es Security settings					
– Operati	on					
۲	Set Constant		O Plus		0	Minus
Write ad Devic	本地设备		×	Settin		
Addre	PSW	~ 0				
Data type	Word V Unsigner	Inc	lirect			

Operation	Constant	The specified value setting of the specified object is equivalent to the data setting (it can be		
		set as a constant or specified through a register)		
	Plus	You can set the value added each time (it can be set as a constant or specified through the		
		register), and set the increment value and upper limit value and whether to cycle		
	Minus	You can set the value of each decrement (which can be set as a constant or specified		
		through the register), the decrement value, the lower limit value and whether to cycle		
Write address Set the write in address		Set the write in address		
Equipment		Current equipment port for communication		
Address S		Set the target coil address		
Data type Byte		Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,		
		Unigned value, Floating number		
S	let	Click "Set" to enter the address setting interface, where you can set and use system		
		registers and user-defined tags. You can click the address tag library below or the project		

	tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for			
	the use of address tag library and user-defined tags)			
	Address			
	Equipme 本地设备 v Statio 0 n			
	Address type Vulser defined label			
	Address 0 System register			
	数据关型 Word V Unsigned V			
	Address [Extent:0-9999] format			
	Address tag			
	Determine Cancel Application			
Indirect assignment	Set the current address offset. The current coil address changes with the indirectly specified			
	register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example, the			
	urrent coil address is PSB0, if the indirectly assigned address is PSW100; When the value			
	f PSW100 register is 0, the coil controlling this element is still PSB0; When the value of			
	PSW100 register is 1, the coil controlling this element is PSB1 (and so on)			
Security setting	Set the user's permission range and whether to pop up a prompt window when there is no			
	permission			
	Set data			
	Basic Attributes Security settings			
	User permission			
	When the user has no authority, a prompt window will pop up			
	User Required None Y			
	Determine Cancel Application			

(3) Arithmetic

		Arith	hmetic		×
Basic Attri	butes Security	settings			
Operati		0 -	○ ×	O÷	
Left op		lse reç	Right operar 0	nd	
– 🗌 Enal	ble upper limit		— 🗌 Enable Ic	ower limit	
Write a	ddress				
Devic	本地设备		✓ Settin		
Addre	PSW	~ 0			
Data type	Word 🗸 Unsig	^{gnec} 🗸 🗌 Indire	ect		
Preview	(
		PSWO	= 0 + 0		
			Determine	Cancel Applicati	on

Operation	From left to right, add (+), subtract (-), multiply (×), Divide (÷)			
Left operand	Sets the value of the left operand, which can be a constant or specified by a register			
Right operand	Sets the value of the right operand, which can be a constant or specified by a register			
Enable upper limit	Function key - for upper limit of the arithmetic object register, you can enter a constant or			
	specify it by the register			
Enable lower limit	Function key – for lower limit of the arithmetic object register, you can enter a constant or			
	specify it by the register			
Write address	Set the write in address			
Equipment	Current equipment port for communication			
Set	Click "Set" to enter the address setting interface, where you can set and use system			
	registers and user-defined tags. You can click the address tag library below or the project			
	tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for			
	the use of address tag library and user-defined tags)			
	Address			
	Equipme 本地设备 v Statio 0 n			
	Address type PSW ~ User defined label			
	Address 0 System register			
	数据类型 Word VInsigned V			
	Address [Extent: 0 - 9999]			
	format			
	Address tag			
	Determine Cancel Application			
Address	Set the target register address			
Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,			
	Unigned value, Floating number			
Indirect assignment	Set the current address offset. The current coil address changes with the indirectly			
	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example,			
	the current coil address is PSB0, if the indirectly assigned address is PSW100; When the			
	value of PSW100 register is 0, the coil controlling this element is still PSB0; When the			
	value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)			
Security setting	Set the user's permission range and whether to pop up a prompt window when there is no			
	permission			
	Arithmetic			
	Basic Attributes Security settings			
	User permission			
	When the user has no authority, a prompt window will pop up			
	User Required None			
	Permissions			

(4) Data transmission

Transfer the specified source register/coil data to the target register/coil, for batch data transmission.

		Data transmission 🥂 😽	
Basic Attribut	es Security settings		
Transmis sion type	(a) Mord	O Bit register	
Register	1		
Source ad	dress		
Devic	本地设备	✓ Settin	
Addre	PSW	✓ 0	
Data Word Y Unsignec Y Indirect			
Destinatio	n address		
Devic	本地设备	✓ Settin	
Addre	PSW	✓ 0	
Data type	Word Y Unsigne	ec 🛩 🗌 Indirect	
1		Determine Cancel Application	

Transmission type	You can choose whether to transfer word register (register value) or bit register (coil			
	status)			
Number	The number of data block transfer can be set			
Source address	Read the first address information of the register			
Target address	Write the first address information of the register			
Equipment	Current equipment port for communication			
Address	Set the target register address			
Set	Click "Set" to enter the address setting interface, where you can set and use system			
	registers and user-defined tags. You can click the address tag library below or the project			
	tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for			
	the use of address tag library and user-defined tags)			
	Address			
	Equipme 本地设备 V Statio 0 n			
	Address PSW v User defined label			
	Address 0 System register 数据类型 Word v Unsigned v			
	Address [Extent: 0 - 9999]			
	format			
	Address tag			
	Determine Cancel Application			
Indirect assignment	Set the current address offset. The current coil address changes with the indirectly			
	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example,			
	the current coil address is PSB0, if the indirectly assigned address is PSW100; When the			
	value of PSW100 register is 0, the coil controlling this element is still PSB0; When the			
	value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)			
Security setting	Set the user's permission range and whether to pop up a prompt window when there is no			
	permission			

		Data transmission	×
Basic Attributes	Security settings		
	n the user has no a	uthority, a prompt window will pop	p up
User Requ Permissio		~	

(5) Screen switch

Jump to the specified screen.

	Switch so	reen	×
Basic Attributes	Security settings		
Start			
O Screen			
Pop up th	e pass <mark>word</mark> window	automatica <mark>l</mark> ly.	(If the target
	Determine	Cancel	Application

Start screen	System startup display screen			
The last screen	Jump to the original screen			
Screen ID	Select the screen ID to jump to			
The password window	If checked, and the screen to be switched has higher authority, the user login window will			
will pop up	pop up automatically			
automatically				
Security setting	Set the user's permission range and whether to pop up a prompt window when there is no			
	permission			
	Switch screen			
	Basic Attributes Security settings			
	User permission			
	When the user has no authority, a prompt window			
	User Required Permissions			
	Determine Cancel Application			

(6) Call window

Switch or pop-up the specified window.

	Call wir	ndow	×
Basic Attributes	Security settings		
Switch	[25001]User login	~	
🔘 Pop up			
Pop up th	e password window	a <mark>utomaticall</mark> y.	(If the target
	Determine	Cancel	Application

Switch windov	The window number to be switched can be set; Switching can only pop up one window at			
	the same time			
Pop up	You can set the number of the window to pop up; Pop up can pop up multiple windows at			
	the same time			
The password win	low If checked, and the screen to be switched has higher authority, the user login window will			
will pop up	pop up automatically			
automatically				
Security setting	Set the user's permission range and whether to pop up a prompt window when there is no			
	permission			
	Call window			
	Basic Attributes Security settings			
	User permission			
	When the user has no authority, a prompt window			
	User Required None V			
	Determine Consel			
	Determine Cancel Application			

(7) Close window

You can choose to close the specified window or all windows.

Basic Attributes	Security settings	
Close all w	indows	
Close the	[25001]User login v	
	Determine Cancel	Application

Close all the window	All windows of the current screen can be closed
Close window	The window number to be closed can be set
Security setting	Set the user's permission range and whether to pop up a prompt window when there is no
	permission

	Close th	e window	
Basic Attributes	Security settings		
User permi	ired None	uthority, a pro	ompt window
	Determine	Cancel	Application

(8) Import csv data

The previously stored data can be called in for reference or updated in the HMI.

	tes Security setting					
源文件						
File	USB drive					
文件名利	K CE.csv					
	◉ 固定文件名	○ Date spe	ecifies the	Register		
数据块首	tietit					
	本地设备		✓ Set			
Addre	PSW	~ 0 0				
Numb	1	typ	e			
Data capaci	ty 100					
Data con		20305 92			1.5012	10
Serial	Title	Data type	Data format		Integer	Decimal
			Deterormat	个数		1.000
 ✓ 执行状 ✓ 执行袋 	1500	Delete	Move up	Move dow	m	
	态 PSB0 課 PSW0	Delete			m	

Source	File	You can only import from the USB flash disk.
file	location	When simulating, the storage location for imported files is in the software directory:
		Temp/Run/storage/udisk.
	File name	It can be set as a fixed file name (the file name is defined by itself), a file name specified by
		the date, or a file name specified by the contents of the register (the file name only supports
		characters, not Chinese, and cannot contain special characters)
Data b	lock start	Set the object type and first address of the import destination address, which is generally set
ad	dress	as the internal register PSW or PFW of the HMI
Equ	ipment	Current equipment port for communication
Ad	ldress	Set target register number
Custom	Data Type	If it is not checked, the default type is Word, and you can also select Dword or DDword;
		Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,
		Unigned value, Floating number

Data capacity to be imported each time (maximum data capacity 65535)
Select the same title, data type, data format, number of words, integer digits, and decimal
digits as the table to be imported
Add/delete imported row information
Change the order of added lines
The bit indicates whether it is in the import status. When it is ON, it indicates that it is in the
import status. After the import is successful, the OFF status will be restored
The running result of the import operation is represented by the value in the register;
0: Import succeeded; 1: Wrong file name; 2: Error file index; 3: The file path does not exist;
4: File creation failed; 5: The import data format does not match; 6: Export data failed; 7:
Error in reading and writing PLC; 8: The USB drive has been ejected
The implementation progress of the import is indicated by numerical display (the progress is
indicated by a numerical value between 0 and 100, and 100 indicates completion)
Set the user's permission range and whether to pop up a prompt window when there is no
permission
导入CSV数据
Basic Attributes Security settings
User permission
When the user has no authority, a prompt window will pop up
User Required None V

(9) Export csv data

This function can transfer the data in the HMI to the USB flash disk in the form of CSV files.

 数据源首地 Equip 本 			∨ Set			
Addre p		~ 0 0	v Set			
Numb 1	544	V U U				
, taling (r		typ	e			
目标文件						
File location	USB drive					
文件名称	CE.csv					
	• 固定文件名	🔘 Date spe	cifies the 🔿	Register		
Data						
capacity	100					
Data conte						
Serial	Title	Data type	Data format	个数	Integer D	Decim
	Add to	Delete	Move up	Move dow	n	
	1000000000000				<u>01-11</u>	
□ 执行状态	1					
山 执行状态						
 ・ ・						
	L II					

 Data source start
 Set the data type and first address of the export data, which is generally set as the internal register PSW or PFW of the HMI

Equip	oment	Current equipment port for communication
Add	lress	Set the target register address
Custom I	Data Type	If it is not checked, the default type is Word, and you can also select Dword or DDword;
		Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,
		Unigned value, Floating number
Target file	File	Only the USB flash disk position can be selected for export.
	location	
		When simulating, the storage location for imported files is in the software
		directory: Temp/Run/storage/udisk.
	File name	It can be set as a fixed file name (the file name is defined by itself), a file name specified
		by the date, or a file name specified by the contents of the register (the file name only
		supports characters, not Chinese, and cannot contain special characters)
Data c	apacity	Data capacity to be exported each time (maximum data capacity 65535)
Data c	ontent	Select the same title, data type, data format, number of words, integer digits, and decimal
		digits as the table to be imported
Add to	/delete	Add/delete imported row information
Move u	ıp/down	Change the order of added lines
Execution	on status	The bit indicates whether it is in the export status. When it is ON, it indicates that it is in
		the export status. After the export is successful, the OFF status will be restored
Execution	on result	The running result of the export operation is represented by the value in the register;
		0: Export succeeded; 1: Wrong file name; 2: Error file index; 3: The file path does not
		exist; 4: File creation failed; 5: The import data format does not match; 6: Export data
		failed; 7: Error in reading and writing PLC; 8: The USB drive has been ejected
Executio	n process	The exported execution progress is represented by numerical display (the progress is
		represented by a numerical value between 0 and 100, and 100 indicates completion)
Security	y setting	Set the user's permission range and whether to pop up a prompt window when there is no
		permission
		导出CSV数据
		Basic Attributes Security settings
		User permission
		User Required
		Permissions None

(10) Upload recipe

Upload the recipe data in the corresponding equipment data area to the HMI.

配 方源 🛛 🗸 🗸 Recipe 🗌 Registe	
	ſ
Word number per line Recipe upload address	
Devic 本地设备 v Settin	
Addre pSW v 0	
Data Word V Unsignec V Indirect	
type	
Kecipe transfer completion flag	

Desin					
Recipe source		Data upload object register address (click recipe configuration to set relevant information			
		about the recipe, and refer to chapter 4-6 recipe			
Reg	gister	When this option is checked, the value in the register can be used to control which recipe			
		group is exported (if the value in the register is 0, it means that the upload and download			
		of recipe group 0 is performed at this time; if the value in the register is 1, it means that			
		the upload and download of recipe group 1 is performed at this time)			
Words per line		The number of words in each line is calculated according to the selected recipe source			
		and cannot be modified			
Recipe	Equipment	Current equipment port for communication			
upload	Set	Click "Set" to enter the address setting interface, where you can set and use system			
address		registers and user-defined tags. You can click the address tag library below or the project			
		tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for			
		the use of address tag library and user-defined tags)			
		Address			
		Equipme 本地设备 Statio 0			
		Address PSW Y			
		Address 0 System register			
		数据类型 Word ~ Unsigned ~			
		Address [Extent:0-9999] format			
		Address tag			
		Determine Cancel Application			
	Address	Set the target register address			
	Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,			
		Unigned value, Floating number			
	Indirect	Set the current address offset. The current register address changes with the indirectly			
	assignment	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example:			
		the current register address is PSW0, if the indirectly specified address is PSW100; When			
		the value of PSW100 register is 0, the register controlling this element is still PSW0;			
		When the value of PSW100 register is 1, the register controlling this element is PSW1			
		(and so on)			
Recipe	transfer	The indicator lights up when the recipe transfer is completed			
comple	tion flag				

Security setting	Set the user's permission range and whether to pop up a prompt window when there is no permission
	Upload recipe
	Basic Attributes Security settings
	User permission User None Vser Required Permission None Vser Required

(11) Recipe download

Download the recipe data of the HMI to the corresponding equipment data area.

D '				
Recipe source		data Download object register address (click Recipe Configuration to set relevant		
		information about recipe)		
Register a	assignment	When this option is checked, the value in the register can be used to control which recipe		
		group is exported (if the value in the register is 0, it means that the upload and download		
		of recipe group 0 is performed at this time; if the value in the register is 1, it means that		
		the upload and download of recipe group 1 is performed at this time)		
Words per line		The number of words in each line is calculated according to the selected recipe source		
		and cannot be modified		
Recipe	Equipment	Current equipment port for communication		
download	Set	Click "Set" to enter the address setting interface, where you can set and use system		
address		registers and user-defined tags. You can click the address tag library below or the project		
		tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for		
		the use of address tag library and user-defined tags)		
		Address		
		Equipme Attestors		
		Address PSW V User defined label		
		Address 0 System register		
		数据类型 Word Vunsigned V		
		Address [Extent:0-9999] format		
		Address tag		
		Determine Cancel Application		
	Address	Set target register address		
	Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,		
		Unigned value, Floating number		
	Indirect	Set the current address offset. The current register address changes with the indirectly		
	assignment	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example:		
	U	the current register address is PSW0, if the indirectly specified address is PSW100; When		
		the value of PSW100 register is 0, the register controlling this element is still PSW0;		
		When the value of PSW100 register is 1, the register controlling this element is PSW1		
		(and so on)		
Recipe	transfer	The indicator lights up when the recipe transfer is completed		
-	tion flag			
`	y setting	Set the user's permission range and whether to pop up a prompt window when there is no		
	-			

	Download recipe	×
Basic Attributes Security settings		
User permission When the user has no User Required Permissions	authority, a prompt window will pop up	

(12) Call function

Calling the C language function can complete more complex operations and communications.

	function cal	L.	
Basic Attributes	Security settings		
Function al	~	Edit	Function
			and the second sec
	erial execution Parallel	execution	
۹ ک	erial execution Parallel	execution	

Function	Select the function to be called from the drop-down menu
Edit/function	Click to enter the function editing page
Serial execution	The next task can be done after the current task is completed. Therefore, this function
	must have appropriate exit conditions
Parallel execution	Call the task of this function, create a new task to execute the function, and the caller will
	continue the subsequent processing
Security setting	Set the user's permission range and whether to pop up a prompt window when there is no
	permission
	function call
	Basic Attributes Security settings
	User permission
	When the user has no authority, a prompt window will
	User Required Permissions
	Determine Cancel Application

Appearance

Function Appearance Secur	ity set Position	
	Use pictures	
	Status 0	*
OFF	Name button_0	j_a
	Category svg	
-	Dimensic 80 × 42	
Change appeara	nce	More pictures
Fill		
State 0	 ✓ Display text Apply fonts to 	each
Text O Multiling		
	OFF	
Typeface	OFF	
Typeface Ty 微软雅熙	OFF ~ ^{完规} ~	
Ty 微软雅黑	~ 常规 ~	
Ty 微软雅黑 Co	~ 常规 ~	
Ty 微软雅黑 Co	~ 常规 ~	
Ty 微软雅黑 Co	~ 常规 ~	
Ty 微软雅黑 Co	~ 常规 ~	
Ty 微软雅黑 Co	~ 常规 ~	
Ty 微软雅黑 Co	~ 常规 ~	

Change	You can check whether to use pictures. If you check, you can set the appearance of the function
appearanc	keys in different states. After selecting the state in the upper right corner, click "Change
	Appearance" or click "More Pictures" to select a custom picture to change the appearance
Fill	Fill style (solid/gradient) and fill color can be set
State	You need to check "Display Text" to set the text prompt content of the function key in the (0, 1)
	two states. You can set whether to use multiple languages (see chapter 5-1 Label Multiple
	Languages for the specific use of multiple language libraries); Tick the drop-down list to set the
	font corresponding to the corresponding state of the function key, or click the "apply fonts to
	each state" button to set the font in all states
Typeface	You can set the font, size, font style, color and the display position of the font in the component

Security setting

		Function key	
Function	Appearance Security sett	Position	
Cor	on confirmation delay Ifirmation before Waitii delay	ng time	
A	ble 隐藏 V quip 本地设备	v 0 0 ct designation	Set
A	ble quip 本地设备 ddre p _{SB} 、	~ / 1 0	Set
E	nable sta ⁻ ON 🗸 🗸	ct designation	

Operation	The waiting time (s) can be set. If this option is checked, a pop-up window "Are you sure to
confirmation	execute this operation" will pop up when operating components. If you do not click "Confirm"
delay	or "Cancel" within the set waiting time, the pop-up window will disappear by itself and this
	operation will fail; If you click "OK" within the waiting time, the operation is successful.
	Clicking "Cancel" is invalid
Key delay	The operation will not take effect until the set delay time is long pressed
Display control	Use bits to control whether to display the part. When the condition is not met, the component
	will be hidden. It is hidden by default and cannot be modified
Equipment	Current equipment port for communication
Address	Set the coil address for bit control
Indirect	Set the current address offset. The current coil address changes with the indirectly specified
assignment	register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example, the current
	coil address is PSB0, if the indirectly assigned address is PSW100; When the value of
	PSW100 register is 0, the coil controlling this element is still PSB0; When the value of
	PSW100 register is 1, the coil controlling this element is PSB1 (and so on)
Set	Click "Set" to enter the address setting interface, where you can set and use system registers
	and user-defined tags. You can click the address tag library below or the project tree - library -
	address tag library to set the tags (see chapter 5-2 Address Tag Library for the use of address
	tag library and user-defined tags)
	Address
	Equipme 本地设备 v Statio 0
	nt n Address PSB V User defined label
	Address 0 System register
	Address [Extent : 0 - 9999]
	format
	Address tag
	Determine Cancel Application

Enable	When checked, display control will be enabled
When validation	Set the display of the component when validation fails
fails	
Enable state	Set ON status to be valid or OFF status to be valid.
	For example: if the equipment is checked as shown in the above figure, the bit control is PSB0,
	and hide is selected when validation fails, and the enabling status is ON, then when the status
	of PSB0 is ON, the component is normally displayed, and when the status of PSB0 is OFF, the
	component is hidden and not displayed.
Enable control	The bit limit can be set (the enabling state of the enable control can be customized). When the
	enabling conditions are met, the component can be used normally (as shown in the figure
	above: when the PSB1 is in the ON state and the trigger conditions are met at the same time,
	the component can be used; if the PSB1 is in the OFF state, the component is still unavailable
	even if the trigger conditions are met)

Position

Same to chapter 4-1-1 straight line position part.

(13)Screen printing

Print current information through printer.

	Screer	n printing							×
	Basic	Attributes	Security se	ettings					
		ture source Display curi		() Reais	ter assignm	ent O	Specify	Window	
Picture source		Current d	ienlav win	dow reg	Determin		Cancel	Applica	atio
Picture source	e	Current di	isplay win	dow, reg	ister specifi	ied, spe	ecified w	indow	

The connection and configuration of the printer are detailed in chapter 3-10-7 Printer.

4-2-16. Function domain

The function is the same as the function key. This part is a hidden component in the screen, and the specified action will be executed when the required conditions are met. Different from the function keys that need to be manually triggered, the function domain is automatically triggered after the set conditions are met, not only by the key triggering. For the hidden effect in the screen, the function field is generally set as a common component in use, to achieve the purpose that it can be executed in all screens.

1. Click the menu bar "Part/Key/Function domain" or the control window basic part bar icon, move the cursor to the screen, click the left mouse button to place, click the right mouse button or click ESC to cancel the placement. Modify the control length and height through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the "Function domain" or select the "Function domain" and right-click to select "Attribute" to set attributes.

Functional domain	×
Pattern Function Position	
Control ID FF0	_
Describe Action mode	
Screen	
O Screen	
⊖ Coil	
○ Timing	
 Continuo First scan after 	
It is used for system management control and cann	not be operated by users

Pattern

Control ID	It is used for system management control and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Action mode	Set the operation mode. You can only select one trigger action
Screen start	The first scan after the start of the screen where the function domain is located, and the
	relevant functions are executed once
Screen close	The first scan after the screen where the function domain is located is closed, and the
	relevant functions are executed once
Coil	The rising edge means that when the specified coil jumps from OFF to ON, the relevant
	functions are executed once
	The falling edge means that when the specified coil jumps from ON to OFF, the relevant
	functions are executed once
Timing	When the screen is called, after all functions are executed, there are 2 options below for the
	next execution time:
	1. "Timing/continuous mode coil limit" controls whether the current mode is executed
	according to the ON/OFF of the coil
	2. "Display timing interval time" user-defined display register to display timing interval in
	real time (unit: ms), which can only be displayed but not set

Continue	When the screen is called, each scan will execute relevant functions
	When the "Timing (seconds)" or "Continuous" option is selected, the "Timing/Continuous
	Mode Coil Limit" can be selected to set the control coil, that is, when only this coil is set to
	ON/OFF, this function executes
First scan after	For the first scan after downloading the screen, relevant functions are executed once, and
downloading	the simulation is invalid
First scan after	The first scan after the system is powered on and started, and the relevant functions are
startup	executed once, and the simulation is invalid
Logic	Only when the value of the specified register is $<, >, \leq, \geq, ==$ the constant value, the
	relevant function is executed once
	Note: When the specified register is a floating point number, a setting for the number of
	decimal places will be added. During the setting, pay attention to the consistency between
	the number of decimal places set for the constant value and the number of decimal places
	set.
	○ 周面开始 寄存器设置 ? ×
	· 设 备 本地设备 ✓ · 设置 · · · · · · · · · · · · · · · · · ·
	数据类型 DWord V Float V 回接指定
	确定取消应用
	●数值逻辑条件 PSW0 小数位数 0 ↓

■ Function

Pattern	Function	Position		
Selected	d function		Op	tional Features
			Add to	设置线圈
				设置数据
				四则运算
			Delete	数据传输
				画面切换
				调用窗口
			Move up	关闭窗口
				导入CSV
			Move down	导出CSV
				上传配方
				下载配方
				函数调用

Item	Add to	Add the function
	Delete	Delete the function
	Move up	Move the target function up one physical location

	Move down	Move the target function down one physical location
Optional features		Select the corresponding function, click the "Add" button to add the function item to the
		left list. Double click the selected function to enter the setting window

(1) Set coil

Doerati Set		◯ Set off	🔘 Negate	
Write ad	ddress			
Devic	本地设备		✓ Settin	
Addre	PSB	✓ 0		
		Indirect		

Operation	Set ON	Set the control coil to logic 1 state				
	Set OFF	Set the control coil to logic 0				
	Reverse	Set the control coil to the opposite state				
Write address		Set the write in address				
Equipn	nent	Current equipment port for communication				
Addre	ess	Set target coil address				
Indirect ass	ignment	Set the current address offset. The current coil address changes with the indirectly				
		specified register value, that is, Dx[Dy]=D[x+Dy value] (x, y=0, 1, 2, 3). For example,				
		the current coil address is PSB0, if the indirectly assigned address is PSW100; When the				
		value of PSW100 register is 0, the coil controlling this element is still PSB0; When the				
		value of PSW100 register is 1, the coil controlling this element is PSB1 (and so on)				
Set		Click "Set" to enter the address setting interface, where you can set and use system				
		registers and user-defined tags. You can click the address tag library below or the project				
		tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for				
		the use of address tag library and user-defined tags)				
		Address				
		Equipme 本地设备 v Statio 0				
		Address type Viser defined label				
		Address 0 System register				
		Address [Extent : 0 - 9999] format				
		Address too				
		Address tag				
		Determine Cancel Application				

(2) Set data

Operati	on				
	Set Consta	nt	O Plus		🔘 Minus
Write ad	-			1.6	
Devic	本地设备			✓ Settin	
Addre	PSW	~	0		
Data	Word 🗸	Unsignec 🗸			
type	-	0	Indirect		

Operation Const	The specified value setting of the specified object is equivalent to the data setting (it can be
	set as a constant or specified through a register)
Plus	You can set the value added each time (it can be set as a constant or specified through the
	register), and set the increment value and upper limit value and whether to cycle
Minu	You can set the value of each decrement (which can be set as a constant or specified
	through the register), the decrement value, the lower limit value and whether to cycle
Write addres	Set the write in address
Equipment	Current equipment port for communication
Address	Set the target coil address
Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,
	Unigned value, Floating number
Set	Click "Set" to enter the address setting interface, where you can set and use system
	registers and user-defined tags. You can click the address tag library below or the project
	tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for
	the use of address tag library and user-defined tags)
	Address
	Equipme 本地设备 v Statio 0 n
	Address psw v User defined label
	Address 0 System register
	数据类型 Word V Unsigned V Address [Extent:0-9999]
	format
	Address tag
	Determine Cancel Application
	Celefinine Cancer Approaction
Indirect assignn	ent Set the current address offset. The current coil address changes with the indirectly specified
	register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example, the
	current coil address is PSB0, if the indirectly assigned address is PSW100; When the value
	of PSW100 register is 0, the coil controlling this element is still PSB0; When the value of
	PSW100 register is 1, the coil controlling this element is PSB1 (and so on)

(3) Arithmetic

		Arithmetic
Operati	1997 - 19	0 × 0 ÷
Left ope	erand	- Right operand
0	Use reç	0 Use reç
🗌 Enal	ble upper limit	Enable lower limit
Write ac Devic		× Settin
Addre	本地设备	✓ Settin
	PSW V 0	
Data type	Word V Unsignec V	ndirect
Preview		W0 = 0 + 0
		Determine Cancel Application

Operation	From left to right, add (+), subtract (-), multiply (×), Divide (÷)
Left operand	Sets the value of the left operand, which can be a constant or specified by a register
Right operand	Sets the value of the right operand, which can be a constant or specified by a register
Enable upper limit	Function key - for upper limit of the arithmetic object register, you can enter a constant or
	specify it by the register
Enable lower limit	Function key – for lower limit of the arithmetic object register, you can enter a constant or
	specify it by the register
Write address	Set the write in address
Equipment	Current equipment port for communication
Set	Click "Set" to enter the address setting interface, where you can set and use system
	registers and user-defined tags. You can click the address tag library below or the project
	tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for
	the use of address tag library and user-defined tags)

	Address						
	Equipme nt	本地设备 🗸		Statio 0			
	Address type	PSW		*		User defined label	
	Address	0				System register	
	数据类型	Word	V Unsigned	~			
	Address format	[Extent : 0 -	9999]				
				Determi	ne Car	Address tag	
Address	Set the ta	rget regis	ter address	;			
Data type	Byte-8Bi	t, Word-1	6Bit, DWc	ord- 32Bi	t, DDWo	rd -64Bit, BCD for	rmat, Hex, Signed value,
	Unigned value, Floating number						
Indirect assignment	Set the current address offset. The current coil address changes with the indirectly						
	specified	register v	value, that	is, Dx [D	y]=D [x+	-Dy value] (x, y=0,	, 1, 2, 3). For example,
	the current	nt coil ad	dress is PS	SB0, if th	e indirect	tly assigned addres	ss is PSW100; When the
	value of	PSW100	register is	0, the co	oil contro	olling this element	is still PSB0; When the
	value of l	PSW100	register is	l, the coi	l controll	ing this element is	PSB1 (and so on)

(4) Data transmission

Transfer the specified source register/coil data to the target register/coil, for batch data transmission.

Transmis	^s • Word O Bit register	
Register	1	
Source ad	Idress	
Devic	本地设备 v Settin	
Addre	PSW V 0	
Data type	Word V Unsignec V Indirect	
Destinatio	n address	
Devic	本地设备 v Settin	
Addre	PSW V 0	
Data type	Word Vunsignec Indirect	

Transmission type	You can choose whether to transfer word register (register value) or bit register (coil
	status)
Number	The number of data block transfer can be set
Source address	Read the first address information of the register
Target address	Write the first address information of the register
Equipment	Current equipment port for communication
Address	Set the target register address
Set	Click "Set" to enter the address setting interface, where you can set and use system

	registers and user-defined ta	gs. You can click the address tag library below or the project				
	tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for					
	the use of address tag library and user-defined tags)					
	Addr	255				
	Equipme nt 本地设备	→ Statio 0				
	Address type PSW ~	User defined label				
	Address 0	System register				
	数据类型 Word v Unsigned v					
	Address [Extent:0-9999] format					
		Address tag				
	De	termine Cancel Application				
Indirect assignment	Set the current address of	set. The current coil address changes with the indirectly				
	specified register value, that	is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example,				
	the current coil address is PS	SB0, if the indirectly assigned address is PSW100; When the				
	value of PSW100 register is	0, the coil controlling this element is still PSB0; When the				
	value of PSW100 register is	1, the coil controlling this element is PSB1 (and so on)				

(5) Screen switch

Jump to the specified screen.

	Switch	n screen		×
 Start 				
○ 前幅画面	i			
O Screen				
Pop up 1	the password win	dow automati	ically. (If the	
	Determine	Cancel	Application	n
				-2

Start screen	System startup display screen
The last screen	Jump to the original screen
Screen ID	Select the screen ID to jump to
The password window	If checked, and the screen to be switched has higher authority, the user login window will
will pop up	pop up automatically
automatically	

(6) Call window

Switch or pop-up the specified window.

	Call v	vindow	2
• Switch	[25001]User l	ogin 🔹	/
O Pop up			
🗌 Pop up tl	ne password wind	dow automa	tically. (If the

Switch window	The window number to be switched can be set; Switching can only pop up one window at
	the same time
Pop up	You can set the number of the window to pop up; Pop up can pop up multiple windows at
	the same time
The password window	If checked, and the screen to be switched has higher authority, the user login window will
will pop up	pop up automatically
automatically	

(7) Close window

You can choose to close the specified window or all windows.

		Close th	e <mark>w</mark> indow		×
	O Close all w	indows			
	• Close the	[25001]User	ogin	~	
		Determine	Cancel	Applicatio	ñ
Close all the window	All windows of	f the current scr	een can be clo	sed	
Close window	The window nu	umber to be clos	sed can be set		

(8) Import csv data

The previously stored data can be called in for reference or updated in the HMI.

File location	• • U disk					
File	CE.csv					
name	• Fixed file	🔘 Date spe	ecify the file	Register		
	c first address		1 Francisco I			
	地设备	1 Percent	✓ Settin			
Addre p	SW	V 0 Word	d_Strin <mark>g ∨</mark>			
Regist 1	1					
	Add	Delete	Move up	Move dow	vn	
Executio	Add	Delete	Move up	Move dow	vn	
	on status	Delete	Move up	Move dow	vn	
		Delete	Move up	Move dov	vn	
Executio	on status	Delete	Move up	Move dov	vn	

Source	File	You can only import from the USB flash disk.
file	location	
		When simulating, the storage location for imported files is in the software directory:
		Temp/Run/storage/udisk.
	File name	It can be set as a fixed file name (the file name is defined by itself), a file name specified by
		the date, or a file name specified by the contents of the register (the file name only supports
		characters, not Chinese, and cannot contain special characters)
Data b	lock start	Set the object type and first address of the import destination address, which is generally set
ad	dress	as the internal register PSW or PFW of the HMI
Equ	ipment	Current equipment port for communication
Ad	ldress	Set target register number
Custom	Data Type	If it is not checked, the default type is Word, and you can also select Dword or DDword;
		Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,
		Unigned value, Floating number
Data	capacity	Data capacity to be imported each time (maximum data capacity 65535)
Data	content	Select the same title, data type, data format, number of words, integer digits, and decimal
		digits as the table to be imported
Add	to/delete	Add/delete imported row information
Move	up/down	Change the order of added lines
Execut	tion status	The bit indicates whether it is in the import status. When it is ON, it indicates that it is in the
		import status. After the import is successful, the OFF status will be restored
Execut	tion result	The running result of the import operation is represented by the value in the register;

	0: Import succeeded; 1: Wrong file name; 2: Error file index; 3: The file path does not exist;
	4: File creation failed
Execution process	The implementation progress of the import is indicated by numerical display (the progress is
	indicated by a numerical value between 0 and 100, and 100 indicates completion)

(9) Export csv data

Targe

This function can transfer the data in the HMI to the USB flash disk in the form of CSV files.

		导出CSV数据 State Stat					
	De Ac	a source fist address vic 本地设备 v Settin dre pSW v 0 Word_String v gist 1 t t					
	Fil Io Fil	cation O disk					
	c	ata apacity a content b. Title Data type Data format number Integer Decimal					
		Add Delete Move up Move down Execution status Execution results Execution process					
		Determine Cancel Application					
Data sou	arce start	Set the data type and first address of the export data, which is generally set as the internal					
add		register PSW or PFW of the HMI					
Equip		Current equipment port for communication					
Add		Set the target register address					
Custom I	Data Type	If it is not checked, the default type is Word, and you can also select Dword or DDword; Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value, Unigned value, Floating number					
arget file	File	Only the USB flash disk position can be selected for export.					
	location	When simulating, the storage location for imported files is in the software directory: Temp/Run/storage/udisk.					

File name It can be set as a fixed file name (the file name is defined by itself), a file name specified by the date, or a file name specified by the contents of the register (the file name only supports characters, not Chinese, and cannot contain special characters)

Data capacity	Data capacity to be exported each time (maximum data capacity 65535)
Data content	Select the same title, data type, data format, number of words, integer digits, and decimal
	digits as the table to be imported
Add to/delete	Add/delete imported row information
Move up/down	Change the order of added lines
Execution status	The bit indicates whether it is in the export status. When it is ON, it indicates that it is in
	the export status. After the export is successful, the OFF status will be restored
Execution result	The running result of the export operation is represented by the value in the register;
	0: Export succeeded; 1: Wrong file name; 2: Error file index; 3: The file path does not
	exist; 4: File creation failed
Execution process	The exported execution progress is represented by numerical display (the progress is
	represented by a numerical value between 0 and 100, and 100 indicates completion)

(10) Upload recipe

Upload the recipe data in the corresponding equipment data area to the HMI.

#1 +- X	E C		~	Recipe	Desister		
配方法	尿		~	Recipe	Register		
Word numbe per line	-						
Recipe	upload add	dress					
Devic	本地设备						
Addre	PSW	~	0				
Data	Word 🗸	Unsignec 🗸					
type		1	ind	irect			
	ipe transie	r compieuo	ii iiay				
	.				(A)		
				Determine	Cancel	Application	

Recipe	e source	Data upload object register address (click recipe configuration to set relevant information				
	about the recipe, and refer to chapter 4-6 recipe)					
Register		When this option is checked, the value in the register can be used to control which recipe				
		group is exported (if the value in the register is 0, it means that the upload and download				
		of recipe group 0 is performed at this time; if the value in the register is 1, it means that				
		the upload and download of recipe group 1 is performed at this time)				
Words per line		The number of words in each line is calculated according to the selected recipe source				
		and cannot be modified				
Recipe	Equipment	Current equipment port for communication				
upload	Set	Click "Set" to enter the address setting interface, where you can set and use system				
address		registers and user-defined tags. You can click the address tag library below or the project				
		tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for				
		the use of address tag library and user-defined tags)				

		Address	
		Equipme 本地设备 v Statio 0	
		Address type Vsw Vser defined label	
		Address 0 System register	
		数据类型 Word Vunsigned V	
		Address [Extent: 0 - 9999] format	
		Address tag	
		Determine Cancel Application	
	Address	Set the target register address	
	Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed val	ue,
		Unigned value, Floating number	
	Indirect	Set the current address offset. The current register address changes with the indirect	ctly
a	assignment	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For examp	ple:
		the current register address is PSW0, if the indirectly specified address is PSW100; Wh	nen
		the value of PSW100 register is 0, the register controlling this element is still PSV	V0;
		When the value of PSW100 register is 1, the register controlling this element is PSV	W1
		(and so on)	
Recipe tr	ransfer	The indicator lights up when the recipe transfer is completed	
completio	on flag		

(11) Recipe download

Download the recipe data of the HMI to the corresponding equipment data area.

配方	源		~	Recipe	Specifie	ed	
Word numbe per lin							
Recipe	download a	address					
Devic	本地设备 🗸 🗸				Settin		
Addre	PSW	~	0				
Data	Word 🗸	Unsignec 🗸		lirect			
type	1	termine Sciences		lirect			
	ipe transie	сотрено	ппау				
LINCL							

Recipe source		data Download object register address (click Recipe Configuration to set relevant				
1		information about recipe)				
Register assignment		When this option is checked, the value in the register can be used to control which recipe				
		group is exported (if the value in the register is 0, it means that the upload and download				
		of recipe group 0 is performed at this time; if the value in the register is 1, it means that				
		the upload and download of recipe group 1 is performed at this time)				
Words per line		The number of words in each line is calculated according to the selected recipe source				
		and cannot be modified				
Recipe	Equipment	Current equipment port for communication				
download	Set	Click "Set" to enter the address setting interface, where you can set and use system				
address		registers and user-defined tags. You can click the address tag library below or the project				
		tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for				

		the use of address too library and user defined toos)
		the use of address tag library and user-defined tags)
		Equipme nt 本地设备 Statio 0 Address PSW User defined label Address 0 System register 数据类型 Word Unsigned V Address [Extent: 0 - 9999] V
		format Address tag Determine Cancel Application
	Address	Set target register address
	Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed value,
		Unigned value, Floating number
	Indirect	Set the current address offset. The current register address changes with the indirectly
	assignment	specified register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). For example:
		the current register address is PSW0, if the indirectly specified address is PSW100; When
		the value of PSW100 register is 0, the register controlling this element is still PSW0;
		When the value of PSW100 register is 1, the register controlling this element is PSW1
		(and so on)
Recipe	transfer	The indicator lights up when the recipe transfer is completed
complet	tion flag	

(12) Call function

Calling the C language function can complete more complex operations and communications.

	function call
	Function al V Edit Function
I	● Serial execution Parallel execution
L	Determine Cancel Application
Function	Select the function to be called from the drop-down menu
Edit/function	Click to enter the function editing page
Serial execution	The next task can be done after the current task is completed. Therefore, this function
	must have appropriate exit conditions
Parallel execution	Call the task of this function, create a new task to execute the function, and the caller will
	continue the subsequent processing

(13)Screen printing

Print current information through printer.

Picture source Display current	O Register assignment	O Specify Window
	-	

Picture source Current display window, register specified, specified window

The connection and configuration of the printer are detailed in chapter 3-10-7 Printer.

Security setting

模式	功能	安全设置	位置		
使能控制 ☑ 启用验证					
					设置
设备	本地设备			~	设置
设 备 地 址	本地设备 PSB	~	0	0	设置

The bit limit can be set (the enabling state of the enable control can be customized). When the enabling condition is met, the component can be used normally (as shown in the figure above: when PSB0 is in the ON state and the trigger condition is met at the same time, the component can be used; if PSB0 is in the OFF state, the component is still unavailable even if the trigger condition is met).

Position

Same to chapter 4-1-1 straight line position part. (It is not allowed to modify the size and move horizontally and vertically).

4-2-17. Sliding input

The value can be displayed in the slider area, or the value in the set data address can be changed by dragging and sliding.

1. Click "Part/Input/Sliding Input" in the menu bar or in the basic part bar of the control window, move the cursor to the screen, click the left mouse button to place it, click the right mouse button or click ESC to cancel the placement. Modify the control length and height through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Sliding Input" or select "Sliding Input" and right-click, and then select "Attributes" to set attributes.

Basic property

	Sliding input	×
sic projAppearar Scale and Noti	ce Security Position	1
Control ID SI0		
Describe		
Read address		
Equip 本地设备	✓ Set	
Addre pSW v	0 0	
Data Word ♥ Unsignec ♥ type	ct designation	
Attribute		
Maxim um	Minimu m value	
Register		gister control
Directi on Show right	V Minimu m scale 1	
Increase or	Multiple Change the write val	ue in real time

Control ID	It is used for system management component and cannot be operated by users
Describe	Can be used to comment on the purpose of this component
Read address	Set the register address, and set whether the address is offset (that is, specified indirectly)
Equipment	Current equipment port for communication
Address	Set target register number
Data type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit, BCD format, Hex, Signed
	value, Unigned value, Floating number
Set	Click "Set" to enter the address setting interface, where you can set and use system registers and user-defined tags. You can click the address tag library below or the project tree - library - address tag library to set the tags (see chapter 5-2 Address Tag Library for the use of address tag library and user-defined tags)
	Address
	Equipme 本地设备 v Statio 0
	Address type
	Address 0 System register
	数据类型 Word V Unsigned V
	Address [Extent : 0 - 9999] format
	Address tag Determine Cancel Application
Indirect assignment	Set the current address offset. The current register address changes with the indirectly
	specified register value, that is, Dx [Dy]=D[x+Dy value] (x, y=0, 1, 2, 3). For
	example: the current register address is PSW0, if the indirectly specified address is
	PSW100; When the value of PSW100 register is 0, the register controlling this element
	is still PSW0; When the value of PSW100 register is 1, the register controlling this

		element is PSW1 (and so on)
Property	Maximum	The upper limit value of the sliding input display value can be set as a constant or set
		through the register
	Minimum	The lower limit value of the sliding input display value can be set as a constant or set
		through the register
	Direction	Set the sliding direction, including up, down, left and right
	Minimum	The smallest numeric unit to increment or decrement when dragging the slider
	scale	
	Increase or	You can set the change size of the value each time you move the slider
	decrease the	
	minimum	
	scale per click	
	Chang the	If checked, the value in the corresponding register will change in real time as the slider
	write value in	is dragged.
	real time	If not checked, the value in the corresponding register will not change in real time
	during sliding	during the slider dragging process

Appearance

Basic pro Appe	aranScale and No	otice Security Po	sition		
			Appearance of Height setting	slide rail 30	
			Width setting	260	
			S	tyle selection	
			Backgroun d color Border		v v
			Fill color		~
Slider appe Width setting	arance	Height setting	50		
Jetting		yle selection			
	1.52				

Appearance	Set the height, width, style and color of the slide rail (when modifying, you can observe the
of slide rail	modification results in the left preview in real time
Slider	Set the height, width, style and color of the slider (when modifying, you can observe the
appearance	modification results in the left preview in real time

■ Scale and mark

	Sliding input	×
asic Atti Appearar Scale and Notice	Security Location	1
✓ Display scale		
Scale position ④ 上方	〇 下方	
Major scale	Major scale	
equal fraction	length 10	8
WITTOT SCALE	MINUT SCALE	1
equal fraction	length 🔤	1
Line		
Scale mark colc	▼ Scale mark s ×	
Scale mark wid 1	*	
Show numeric marks		
Integer c3	Decimal 2	
Fo Times New Roman	✓ General ✓	
Col	Size 12 V	
Display percentage		

If checked, scale will be displayed; if unchecked, scale will not be displayed
Set the scale display position, which can be displayed above or below the slider
Set the number and length of major and minor scales
Set the color, style, and width of tick marks
Set the display format of the scale mark. Choose one of the two display methods
You can set the number of integer and decimal digits of the displayed number, and
whether the font, size, color, font style and horizontal and vertical directions are
aligned
You can set the font, size, color, font style, horizontal and vertical alignment of the
displayed percentage
Set whether the axis is displayed at the bottom of the scale

Notice

	earar Scale and Notice Security Position	
Notice		
Before writ	ing After vriting	
✓ Notifica	ation bit	
Write d	on O Write off	
Equip		
Addre		
	ct designation	
Notice	word	
✓ Notice Equip	word 本地设备 v Set	
The second second	本地设备 v Set	
Equip	本地设备 v Set Set PSW v 0 0	
Equip Addre	本地设备 v Set Set PSW v 0 0	

Notice If notification bit or notice word is enabled, you can select to write the target coil ON, OFF or the target register to a constant before or after writing. If not enable them, the notification function will not take effect

Security setting

	Sliding input	×
Basic Attı Appea	ararScale and Notice Security SLocation	^
– Display contr	0	
Enable		
When	隐藏	
Devic	本地设备 v Settin	
Addre	PSB V 0	
Enable	e Sta ON 🗸 🗌 Indirect	
Enable contro	ol	
✓ Enable		
Devic	本地设备 v Settin	
Addre	PSB v 1	
Enable	e Sta ON 🗸 Indirect	
– User permiss		
User permiss	ion permission after operation	
User permiss	ion	

display control	Use bit to control whether to display the part, and hide the part when the condition is not met
enable	When checked, display control will be enabled
When validation fails	Set the display of this part when validation fails
device	The equipment port for current communication

address	Set the target coil for bit control						
setting	Click "Setting" to enter the address setting interface, where you can set the use of system						
	registers and user-defined tags. You can click the address tag library or project						
	tree-library-address tag library below to set the used tags (see 5-2 Address tag library for the						
	use of address tag library and user-defined tags)						
	Address						
	Device 本地设备 v Statio 0 n No.						
	Address PSB V User defined label						
	Address 0 System register						
	Address [range : 0 - 9999]						
	format						
	Address Label						
	Determine Cancel Application						
enable state	Set the ON status to be valid or the OFF status to be valid.						
	For example, if the device is checked as shown in the figure above, the bit control is PSB0, the						
	selection is hidden when the verification fails, and the enable status is ON, then when the						
	PSB0 status is ON, the component is normally displayed, and when the PSB0 status is OFF,						
	the component is hidden and not displayed.						
enable control	The bit limit can be set (the enabling state of the enable control can be customized). Only when						
	the enabling conditions are met can the component be used normally (as shown in the figure						
	above: When the PSB1 is in the ON state and the trigger conditions are met, the component						
	can be used; if the PSB1 is in the OFF state, even if the trigger condition is met, the component						
	is still unavailable)						
user permission	Set a controlled permission level. After setting the permission range of the required user, the						
	following two functions can be checked as required:						
	(1) After the operation is completed, the user's permission will be cancelled: If this option is						
	not checked, the corresponding level password will need to be entered each time the						
	component is operated. After checking, only one successful entry is required.						
	(2) When the user has no permission range, a prompt window will pop up.						
	(3) Hide the component when the user has no permission range.						

Refer to chapter 4-2-3 for the use of permission functions.

Location

Same to location part of chapter 4-1-1 straight line.

4-2-18. Drop down menu

Call the pull-down window, click the selected key to set the register value, and close the pull-down window.

1. Click the menu "Parts/Key/Dropdown Menu" or the drop-down menu icon in control window's basic

parts bar ", move the cursor to the screen, click the left mouse button to place, click the right mouse button, or use the ESC key to cancel the placement. Modify the length and width of the component through boundary points.

- 2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click the "drop-down menu" or select the "drop-down menu" and right-click to select "basic attribute" for attribute settings.
- Basic attribute

			Drop-down r	menu			×	
E	Read address Devic 本地设备 Addre PSW	0 down m [,] ~ 0	and the second sec	Settin			^	
	● Edit Number ³ ✓	Pop u	pm∢Down ∽		nmand mode	t is multilingu	-	
	1 2	value 0 1 2 其他	label content 0 1 2			Move		
control ID	It is used for syst	em managen	nent control,	and canno	ot be operated b	by users		
description	Can be used to co	omment on th	ne purpose of	f this cont	rol object			
mode	drop down menu	Can be used to comment on the purpose of this control object two modes: drop down menu, list box style drop down menu: click to show all the options list box style: it can show all the options without clicking						

list box style

read address	Set the register address and set whether to offset the address (i.e. indirectly specify)
device	Device port currently communicating
address	Set target register number
data type	Byte-8Bit; Word-16Bit; DWord-32Bit; DDWord -64Bit; BCD; Hex; Signed; Unigned;
	Floating number
setting	Click "Settings" to enter the address setting interface. This interface allows you to set and use system registers and user-defined tags. You can click the address tag library or project tree library address tag library below to set the tags used (see 5-2 Address Tag Library for the use of address tag library and user-defined tags) Address Address Device 本地设备 Statio Address User defined label Address System register Word Unsigned Address [range: 0 - 9999]
	Address Label Determine Cancel Application
indirect	Set the current address offset. The current register address changes as the indirectly specified
designation	register value changes, that is, $Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3)$. Example: The current register address is PSW0, if the indirectly specified address is PSW100; When the value of the PSW100 register is 0, the register that controls this component remains PSW0; When the value of the PSW100 register is 1, the register that controls this component is PSW1 (and so on)
edit	That is, determine the setting value and text corresponding to each drop-down option through the register address Edit Command mode
	Number3 Pop up mcDown Label content is multilingual Index corresponding value label content 0 0 0 1 1 1 2 2 2 3(error) 其他
number	Set the number of drop-down options (1-255)
pop up mode	Set the pop-up method for drop-down options, which can be selected from up or down. This item cannot be set when the above mode is selected as "List Box"
index	The serial number of the drop-down option, which is not displayed in the control when actually used
corresponding	The register setting value corresponding to the current option which is not displayed in the
value	control during actual use
label content	The text description displayed above the option can be modified by double clicking
label content is multilingual	selected this item, click the label content, then click the set multi-language . Or manage it in the project tree - Library - Label Multilingual - on the left of the project interface (see 5-1 Label Multilingual for specific usage)

	Number 3 V			ip m¢Down →	Label content	t is multilingual
		Index	corresponding value	label content		Move up
	Þ	0	0	0		
		1	1	1	-	Move
		2	2	2		
		3(error)	其他			
move up	Move	the specifie	ed option up			<u> </u>
move down	Move	the specifie	ed option down			
command mode	After s	selecting th	e command mo	de the control w	ill display the user l	ist set in System Settings -
		-				
						nd cannot be set; Note that
	this ite	em is only f	or display purp	oses and does not	affect the use of ope	erating permissions
		- 10 P				
	- Read Devic	address 本地设备		 Settin 		
	- 100 E 100 E	e psw	~ 0	• Secur		
	Data	Word V U	nslaner V			
	type	inora i io	Indirec	t		
	1	○ Edit		 Comma 	and mode	
		Device ⁵ 地ì	投 备		*	
		Command	ser list)		~	

■ Appearance

	Drop-down menu	×
Basic Attri Appoaranc Notice Security se Loca	tion	
	Name category Size	menu_01_s svg 16 × 16
Status 0 Arrow Style Status 1 Arrow Style Arrow background		
Color	v	
Selected Item cons. Background cc	Border	v
Font settings		
Index tabe 0 v Co	oy this property to eac	h
	General V	
Fo 微软推理		

status 0 arrow style	Select the appropriate arrow style in the gallery
status 1 arrow style	Select the appropriate arrow style in the gallery
arrow back ground	Select the appropriate arrow background style in the gallery
color	You can set the color, background color, and border color of the selected item
font settings	"You can set the font, font style, size, font style, color, and display position of the font in the
	control through the number of the drop-down index label (you can click "Copy this property to
	each" to format the font in all states)"

■ Notice

			Drop-	down menu		
	Basic Attril App	earan Notice	Security se Location			
	Error messa	ige				
	✓ Notifi	cation bit				
	• Write	e on	C	Write off		
	Devic			✓ Settin		
	Addr	e psb	~ 0			
			Indire	-+		
				ct		
	✓ Notic	e word			2	
	Devic	本地设备		✓ Settin		
	Addr	e PSW	~ 0			
	Data	Word 🗸 U	Unsignec 🗸 🗌 Indire	ct		
	type	10 ² - 44742				
	Write	2-3.999114 05985				
error messa	-				s an unset corresponding	
					will write ON or OFF to	-
	or write	e a constant	to the target regis	ter; If Enable is not	checked, the notification	function will
	not tak	e effect				
	Nun	nber ⁵	Y Pop u	ip mcDown 🗸		1. 1. 1. 1. 1. 1.
	Null	ilbei -	ropu		Label content is	s multilingual
		Index	corresponding value	label content		Move up
		0	0	0		
		1	11	1		Move
		2	22	2		
		3	33	3		
		1000	1 M	1 104 102		
		4	4 其他	4		

Security setting

	Drop-down menu
Basic Attril Appearan	Notice Security se Location
Operation con	firmation delay
☑ Confirm b	before Waiting time second
Display contro	Į
When	隐藏
Devic	本地设备 v Settin
Addre	PSB v 0
Enable Enable control	
Devic	本地设备 v Settin
Addre	PSB V 0
Enable	Sta ON v Indirect
User permissio	nn
	rmission after operation
A prompt	window pops up when the user has no permission range
Hide this	component when the user has no permission scope
User per range	

Same to the security setting part of chapter 4-2-3. numerical input.

Location

Same to location part of chapter 4-1-1 straight line.

4-2-19. File browse

Used to display files in the USB drive.

1. Click on the file browsing icon 3 in the basic components bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button or use the ESC key to cancel the placement. Modify the length and width of the control through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "File Browser" or select "File Browser" and right-click to select "Properties" for attribute settings.

Basic property

文件浏览						×	
基本属性	外现	安全设置	位置				
控件ID	FBC0						
描述							
显示文件类组	Ð						
启器	名						
	818			8	添加		
					1		
					刪除		
						2	
			F		8		
				确定	取消	应用	

Control ID	Used for system management controls, user cannot operate.
Description	Can be used to annotate the purpose of this control.
Display file	You can click the "Add" button to add the file extension name that needs to be displayed, which
type	includes but is not limited to PDF, CSV, doc, etc.
	×
	请输入要添加后缀: 通礼 取消 The left list can display the added suffix names
	后缀名 で で で し で し で し の の し の の の の の の の の の の の の の
	Chek the Delete oution to delete sum rows that do not need to be displayed in the list

■ Appearance

	文件浏览 ×
	基本属性 外观 安全设置 位置
	颜色
	选中项目颜色 ————————————————————————————————————
	字体
	字体総数推測 ジャング 常規 シ
	颜色 大小 12 ~
	对齐 Middle_Center ~
	确定 取消 志用
	例 正 教 海 前进
Color T	he background color of the control and the color of the selected item can be set.

Color	The background color of the control and the color of the selected item can be set.
Font	The font, glyph, size, color, and alignment can be set by using the numbers on the dropdown
	index label (you can click "Copy this property to each state" to format the font for all states).

Security setting

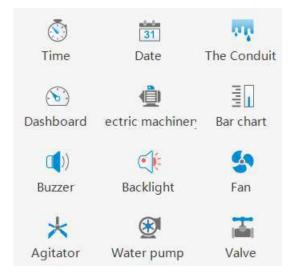
Same as chapter 4-2-3. Numerical input in the safety settings section.

Location

Same as chapter 4-1-1. Straight line location part.

4-3. Device

The device bar includes: time, date, pipe, dashboard, motor, bar chart, buzzer, backlight, fan, mixer, water pump, and valve.



4-3-1. Time

This control is used to display the current time of the HMI.

- 1. Click the "⁽⁾" time icon in the control window's device bar or menu bar "Parts/Industry/Time", move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.
- 2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Time" or select "Time" and then right-click and select "attributes" to set attributes.
- Basic attribute

	Time
Basic At	t Appeara Security Location
Contr	TEO TEO
Descr	iption
Time	format
012	2 hour system 24 hour system
	Format HH:MM:SS V
control ID It	is used for system management control, and cannot be operated by users
escription Ca	an be used to comment on the purpose of this control
ime format Se	t the time format, including "12 hour system" and "24 hour system", with 4 format

Appearance

				🗹 Use pictu	✓ Use pictures		
				Status	0	~	
				Name	data_01		
				catego	y svg		
0				Size	80 × 25		
	Cha	inge appea	rance		More pict	<u>tures</u>	
~	Cha Border	nge appea	rance		More pict	tures .	
		Pure colo		Border co		tures	
	Border			Border co			
В	Border			Border co General V			

appearance	To set the display appearance, click "Change Appearance" or "More Pictures" to make
	changes
use pictures	Set whether to use pictures
fill	Set the fill color and fill style for the appearance (solid/gradient)
border	Set the fill color and fill style of the border (solid/gradient)
font	Set scale font, color, size, and alignment

■ Security setting

Display contro	1			
Enable When	10-11-			
Devic	隐藏 ~	~	Settin	
Addre		Ť	secui	
Enable	Sta ON 🗸 🗌 Ind	irect		
Jser permissio	on			
Hide this	component when the user ha	s no permiss	ion scope	
	mission Permission1	~		

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-3-2. Date

This control is used to display the current date (year month day) of the touch screen.

1. Click the date icon in the menu bar "Parts/Industry/Date" or 🛅 in the control window, move the cursor to

the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Date" or select "Date" and right-click to select "attributes" to set attributes.

Basic attributes

	ra Security Location	
Control ID	DEO	
Description		
Date format		

		it is used for system management control, and cannot be operated by users
description		Can be used to comment on the purpose of this control
date	format set the date format	
format	display 4-digit	Set whether to display a 4-digit year
	year	
	show week	Set whether to display the week

Appearance

		✓ Use picture	res	
		Status	0	*
		Name	data_01	
		categor	ysvg	
		Size	80 × 25	
Cha	inge appearance		More	e pictures
Border				
Border style	Pure color	✓ Border control	olor	~
Jorder style				
t				
	~	General 🛩		

change appearance	To set the display appearance, click "Change Appearance" or "More Pictures" to make
	changes
use pictures	Set whether to use pictures
fill	Set the fill color and fill style for the appearance (solid/gradient)
boarder	Set the fill color and fill style of the border (solid/gradient)
font	Set scale font, color, size, and alignment

Security setting

Date	×
Security Location	
bl	
隐藏 ~	
本地设备 v Settin	
PSB v 0	
Sta ON 🗸 🗌 Indirect	
on	
component when the user has no permission scope	
mission Permission1 🗸	
	Security Location

Same to chapter 4-1-1 straight line security setting part.

Location

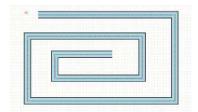
Same to chapter 4-1-1 straight line location part.

4-3-3. Pipe

This control is used to simulate pipe movements in the field control system.

1. Click the pipe icon in the menu bar "Parts/Industry/pipe" or in the control window's device bar, move the cursor to the screen, press the left mouse button at the starting point, drag the cursor to move, and determine the positions of the subsequent end points in turn. When it is the last vertex, double-click the left mouse button to complete the pipe layout, and click the right mouse button or press ESC to cancel placement.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Pipe" or select "Pipe" and right-click to select "attributes" for attribute settings.



Basic attributes

	The Conduit 📉
Basic Attri	Appearan Security se Location
	escription
24 La Delon R	on mode
Sector Sector	ction Forward 🔘 Reverse
	ed Constant speed 1 Register assign PSW0
control ID	It is used for system management control, and cannot be operated by users
description	Can be used to comment on the purpose of this control
action mode	Set the action mode of the fluid, including always flow and bit limited
lways flowing	the fluid will always flow Action mode Always flowing Bit limited Direction Forward Reverse Speed Constant speed 1 Register assignment
bit limited	When the flow conditions are met, the fluid will flow (as shown in the fig

nited	When the flow conditions are met, the fluid will flow (as shown in the figure below,
	when PSB0 is ON, the fluid will flow forward)

	Action mode Always flowing Bit limited Flow conditions ON OFF
	Read address Devic 本地设备
	Direction Forward Reverse Speed Constant speed Register assignment
device	Device port currently communicating
address	Set target coil number

setting		•		ting interface. This interfa	-
	and use sy	ystem registers a	and user-define	d tags. You can click the	address tag library or
	project tre	e - library - add	lress tag libra	ry below to set the tags u	used (see 5-2 Address
	Tag Library for the use of address tag library and user-defined tags)				
			Address		×
	Device	本地设备		✓ Statio n No.	
	Address type	PSB	~	User defined lab	bel
	Address	0		System register	8
	Address format	[range : 0 - 9999]			
			~~	Address Label	
	-		Determi	ne Cancel Application	n
Indirect designation	Set the c	urrent address (offset. The cur	rent coil address change	s with the indirectly
	specified	register value, tl	hat is, Dx [Dy]	=D [x+Dy value] (x, y=0	, 1, 2, 3). Example:
	The curre	nt coil address i	s PSB0, if the	indirectly specified addre	ss is PSW100; When
	the value	of the PSW100	register is 0, th	e coil that controls this ele	ement remains PSB0;
	When the	value of the PS	W100 register	is 1, the coil that controls	this element is PSB1
	(and so or	1)			
flow condition	Select the	action mode of	the fluid to be	ON or OFF (only available	e when bit limited)
read address	Set the co	ontrolled coil ad	ldress and set	whether there is an offse	t (this option is only
	available	when bit limited)		
direction	Set the flo	w direction of the	he fluid, includ	ing forward and reverse di	rections
speed	Set the flo	ow speed of the f	fluid. You can r	nanually set a constant spe	eed or set a register to
	control the	e speed.			
	(When the	e speed set in th	e register is "0	, flow at the lowest speed	of 1, when set to 25,
	flow at the	e highest speed o	of 25.)		

■ Appearance

Basic Attri(AppearantSecum	y si Location	The Condui Height Border Backgrou Border	t 20 20	4	
Slider Style Rectangle Width State OFF	✓ Heigh ✓ Backgr	3	Inter	1	A T

height	Set the height of the pipe	
border (%)	Set the border width ratio of the pipe	
background	Set the background color of the pipe	
border	Set the color of the pipe periphery	
style	Set the style of the slider, including rectangles and arrows	
width	Set the width of the slider	
height	Set the height of the slider	
space	Set the interval of the slider	
state	Set the slider in two states: ON or OFF	
background	Set the color of the slider in both ON/OFF states	
	border (%) background border style width height space state	

(height*border width%) / 2.

Security setting

	The Conduit	×
Basic Attril Appearar	n Security se Location	^
− Display contr ✓ Enable When	ol 隐藏 v	
Devic Addre		
User permissi		

Same to chapter 4-1-1 straight line security setting part.

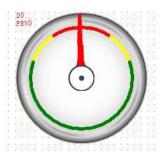
Location

Same to chapter 4-1-1 straight line location part.

4-3-4. Dashboard

This control is used to display the meter.

Click the dashboard icon in the menu bar "Parts/Industry/Dashboard" or Sin the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.
 When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "Dashboard" or select "Dashboard" and right-click to select "attributes" to set attributes.



			Dashbo	ard	×
isic Attrib	range App	pearan Securit	yse Location		^
Control	ID DO				
Descrip	tion				
	h-				
Read add	dress				
Read add	dress 本地设备		115 11-	✓ Settin	
	本地设备	~	0	v Settin	
Devic	本地设备	∨ Unsignec ∨	0	✓ Settin	

contr	ol ID	It is used t	for system n	nanagement c	ontrol, and canne	ot be operated by users
descr	iption	Can be us	ed to comm	ent on the pur	pose of this cont	rol
read	device	Select the	device port	currently con	nmunicating with	1
address	setting	Click "Set	ting" to ente	er the address	setting interface	. This interface allows you to set and
		use syster	n registers	and user-def	ined tags. You	can click the address tag library or
		project tre	e – library	- address tag	library below to	b set the tags used (see 5-2 Address
		Tag Libra	ry for the us	e of address t	ag library and us	er-defined tags)
			Address		×	
		Device	本地设备		~	Statio n No.
		Address type	PSW	~		User defined label
		Address	0			System register
		数据类型	Word v	Unsigned V		
		Address	[range : 0 - 99	99]		
		format				
						Address Label
					Determine Can	cel Application
	address	Set the m	onitoring ad	dress of the i	nstrument, and s	et whether to offset the address (i.e.
		indirectly	•			X
	data type	Byte-8Bit	; Word-16E	Bit; DWord-3	B2Bit; DDWord	-64Bit; BCD; Hex format; Signed;
		Unigned;	Floating 1	number		
	indirect	Set the cu	urrent addre	ess offset. Th	e current registe	er address changes as the indirectly
	specify	specified	register valu	ue changes, t	hat is, Dx [Dy]=	D [x+Dy value] (x, y=0, 1, 2, 3).
		Example:	The curren	t register add	lress is PSW0, i	f the indirectly specified address is

	PSW100; When the value of the PSW100 register is 0, the register that controls this
	component remains PSW0; When the value of the PSW100 register is 1, the register that
	controls this component is PSW1 (and so on)

Range

	D	ashboard		×
Basic Attri range Appear	ran Security se Locati	n		^
Range				
Maximum ra 1	00	Minimum ranç	0	
Vse I	PSW0	Use Use		
Display color:	¥	Fan ring widtt4		
Fon ring rodiv ⁵⁰	▲			
✓Alarm interval				
Upper limit of al	80	Lower limit of ale	20	
Use	PSW0	Use		
Upper limit color	¥			
Color beyond lo	¥			
- ✓ Danger zone				
Upper <mark>h</mark> azard va	90	The following ha	10	
Use	PSWO	Use		
Display color:	~			

range	max range	Set the maximum value of the instrument. You can set a constant or choose to use
		register control
	min range	Set the minimum value of the instrument. You can set a constant or choose to use
		register control
	display color	Set the display color of the meter
	fan ring width	Set the fan ring width for the meter display
	fan ring radius	Set the fan ring radius for the instrument display
alarm	upper limit of	Set the maximum alarm value of the instrument. You can set a constant or choose
interval	alarm	to use register control
	lower limit of	Set the minimum alarm value of the instrument. You can set a constant or choose to
	alarm	use register control
	upper limit	Set the color exceeding the upper limit, which will be displayed when the reading
	color	value of the instrument exceeds the upper limit value
	color beyond	Set the color exceeding the lower limit, which will be displayed when the reading
	lower limit	value of the instrument exceeds the lower limit value
danger	upper hazard	Set the maximum dangerous value of the instrument. You can set a constant or
zone	value	choose to use register control
	lower hazard	Set the minimum dangerous value of the instrument, which can be set as a constant

value	or controlled by registers
display color	Set the color of the danger range, and display the set color when the reading value
	of the instrument register is within the danger range

The range of the danger zone should be greater than or equal to the range of the alarm zone. If equal, the color displays the color of the danger zone.

Appearance

sic Attril range Appearan(Security se L	Dashboard	
sic Autril range Appearantsecurity si Li	ocaion	
	Dial style:	*
((💿))	Directio Clockwise	Anti-clockwise
	Starting ang 0	4
	End angle: 360	
0	Transparei	100
	Syncopation dial	
Needle style		
Needle style	V Interior color:	~
Avis Pivot style: V	Interior color:	V
Pivot style:		
Pivot style: V Scale Display scale Scale positi Outside	✓ Scale color	v
Pivot style: Scale ✓ Display scale Scale positi Outside Main engravii7		• •
Pivot style: V Scale Display scale Scale positi Outside	✓ Scale color	v
Pivot style: Scale ✓ Display scale Scale positi Outside Main engravii7	 ✓ Scale color Major scale lenç7 	• •
Pivot style: Scale ✓ Display scale Scale positi Outside Main engravii7 Secondary er ² Sign	 ✓ Scale color Major scale lenç7 	

dial style	You can select a dial style in the drop-down box
direction	Set the direction indicated by the needle, clockwise or counterclockwise
starting angle	Set the starting angle of the meter $(0^{\circ}-359^{\circ})$
end angle	Set the ending angle of the meter $(0^{\circ}-360^{\circ})$
transparency	Set the transparency of the dial. (Tick off the syncopation dial to set the
	transparency.) You can complete the setting by sliding the slider. The closer the
	slider is to the left, the smaller the value, and the more transparent the component
syncopation dial	It is possible to cut off the dial that is not in the starting and ending angles

needle	needle style	You can select a needle style in the drop-down box
style	interior color	Set the internal color of the needle
axis	pivot style	You can select a pivot style in the drop-down box
	interior color	Set the interior color of the pivot
	external color	Set the outer frame color of the pivot
scale	display scale	Check to set whether to display the scale (if you check not to display the scale, the
		mark set below will not be displayed either)
	scale position	Set the position of the scale, including inside, outside, and center
	scale color	Set the color of the scale
	main scale	Set the number of divisions for the main scale
	division	
	main scale	set the main scale length
	length	
	subscale	Set the number of divisions for the subscale
	division	
	subscale length	set the subscale length
sign	no display	When checked, no numbers or percentages will be displayed on the instrument
	display number	When checked, the number is displayed on the instrument
	display	When checked, the percentage is displayed on the instrument
	percentage	
	integer position	Set the integer digits of the display number (valid when marked as "Display
		Number" or "Display Percentage")
	decimal position	Set the decimal places for displaying numbers (valid when marked with "Display
		Numbers" or "Display Percentage")
	font	Set the font, color, and size of the displayed numbers (valid when marked as
		"Display Numbers" or "Display Percentage")

■ Security setting

	Dashboard	×
Basic Attril ran	ge Appearan Security se Location	^
Display co ✓ Enabl When Dev Ad Ena User perm	htrol e 障藏 wic 本地设备 dre PSB v 0 ble StaON v Indirect	Settin
User rangi	permission Permission1 v	

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-3-5. Electric machinery

This control can be used to simulate the operation process of the motor. When the controlled coil reaches the specified state, the motor can display the corresponding state.

1. Click the icon in the menu bar "Parts/Industry/Motors" or 🚇 in the control window's device bar, move the

cursor to the screen, click the left mouse button to place, click the right mouse button, or use the ESC key to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Motor" or select "Motor" and right-click to select "attributes" for attribute settings.



	10
New York Control of Co	
Description	
Read address	
Devic 本地设	备 v Settin
Addre _{PSB}	~ 0
	Indirect
logic	Indirect
logic • Positive log	

control ID	It is used for system management control, and cannot be operated by users	
description	Can be used to comment on the purpose of this control	
read address	Set the coil address of the control motor and set whether there is an offset (i.e. indirectly	
	specified)	
device	Select the device port currently communicating with	
setting	Click "Settings" to enter the address setting interface. This interface allows you to set and use	
	system registers and user-defined tags. You can click the address tag library or project tree -	
	library - address tag library below to set the tags used (see 5-2 Address Tag Library for the use	

	of address	tag library and u	ser-defined tags)			
			Address		×	
	Device	本地设备		~	Statio n No.	1
	Address type	PSB	~		User defined label	
	Address	0			System register	
	Address format	[range : 0 - 9999]				
					Address Label	
			Determine	Car	Application	
address	Set the me specified)		s of the motor an	d set v	whether the address	s is offset (i.e. indirectly
indirect specify				U	e	s the indirectly specified
	-	-				, 2, 3). Example: The
		•			-	s is PSW100; When the
	value of t	he PSW100 regis	ster is 0, the regi	ster th	at controls this cor	nponent remains PSW0;
	When the	value of the PSW	V100 register is 1	, the re	gister that controls	this component is PSW1
	(and so on	ι)				
logic	Select pos	itive or negative	logic when displa	ying m	otor status	
flash	Select wh	ether to blink and	d whether to blin	k in a	certain state, such a	as ON state flashing and
	OFF state	flashing				
flicker frequency	Set the fre	equency of blinkir	ng			

■ Appearance

sic Att Appeara Security Location	🗹 Use pictu	res	
	Status	0	~
	Name	motor_03_a	
	catego	rysvg	
	Size	100 × 100	
Change appearance	Border		

change appearance	Set display appearance
use pictures	Set whether to use pictures.
	You can set the appearance of clicking in two states: (0, 1). After selecting the state in
	the upper right corner, click "Change Appearance" or click "More Pictures" to select
	custom images to change the appearance
border	Set border style and color

Security setting

	Electric machinery	×
Basic Att Appeara	Security Location	
─ Display contro ✓ Enable When		
Devic Addre Enable		
User permissio	on component when the user has no permission scope	
User per range		

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-3-6. Bar chart

This control is used to achieve the target object data value, represented by a bar graph, and is more direct. It is usually applied to analog quantities such as pressure changes, liquid level changes, and temperature changes, and can directly reflect the relationship between the current value and the full scale value:

Click the bar graph icon in the menu bar "Parts/Industry/Bar chart" or in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.
 When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click on "Bar Chart" or select "Bar Chart" and right-click to select "Attributes" for attribute settings.

	Appeara	an ra	ange Sc	ale and S	ecurity se	Location			
Control	ID	BCO							
Descrip	tion								
0.242.01	- con								
Read ad Devic	ldress	分名				~	Settin		
Read ad	ldress 本地试	avan n		∀ 0		v	Settin		~

contro	ol ID	It is used f	or system m	anagement	control, and ca	annot be op	erated by user	s
descri	ption	Can be use	ed to comme	ent on the pu	rpose of this o	control		
read	device	Select the	device port	currently co	mmunicating	with		
address	setting	Click "Set	tings" to ent	er the addre	ess setting inte	rface. This	interface allow	vs you to set and
		use system	n registers ar	nd user-defi	ned tags. You	can click th	e address tag	library or project
		tree - libra	ry - address	tag library	below to set the	he tags used	l (see 5-2 Add	ress Tag Library
		for the use	of address t	tag library a	nd user-define	ed tags)		
				į.	Address		×	
		80000	本地设备			✓ Station No.	0	
		Address type	PSW		~	Use	er defined label	
		Address	0]		🗌 Sys	stem re <mark>gi</mark> ster	
		数据类型	Word ~	Unsigned	~			
		Address	[range : 0 - 99	999]				
		format						
						1		
						Add	Iress Label	
					Determine	Cancel	Application	
	address	Set the me	onitoring ad	ldress of th	e bar graph a	nd set whe	ther to offset	the address (i.e.
		indirectly s	specify)					
	data type	Byte-8Bit;	Word-16B	Bit; DWord	- 32Bit; DDV	Word -64Bi	t; BCD code	; Hex format;
		Signed;	Unigned;	Floating nu	ımber			
	indirect	Set the cu	urrent addre	ss offset. 7	The current re	egister addr	ess changes a	as the indirectly
	specify	specified 1	register valu	ie changes,	that is, Dx []	Dy]=D [x+	Dy value] (x,	y=0, 1, 2, 3).
		-		•			• •	cified address is
					-	-	-	hat controls this
		-				the PSW10	0 register is 1,	the register that
		controls th	is component	nt is PSW1	(and so on)			

■ Appearance

		Bar chart	
asic Attril Appearance in	ange Scale a	nd Security se Location	
		Appearance StraightBar A set Direction Show up Show down Show Left Show Right	sctor
Style			
Bar chart style:	自定。	¥ ~	
✓ Border		· ·	
✓ Backgroun d		~	
Fill color:		v	
Pattern filling			
Style:		Foregrou nd color:	v
Gradual			

apı	pearance	Select the appearance of the bar graph, and you can choose between straight bars or		
		sectors		
str	aightbar	The style of a regular bar chart		
di	irection	Set the bar graph indication direction, including up, down, left, and right display		
a	sector	Displayed as a fan, starting angle and coverage angle can be set		
proportion of	of inner and outer	Change the display radius of the sector by changing this value (scale range: 1-99)		
rings				
		proportion: 1 50 100		
di	irection	Set the fan indication direction, clockwise or counterclockwise		
style	bar chart style	Select the bar chart style in the drop-down box		
	border	Set the border color of the bar chart		
	background	Set the background color of the bar chart		
fill	fill color	Choose a fill color		
	pattery filling	Set a fill style, and set the foreground color		
	gradual	Choose whether to gradient fill, set the gradient style, foreground color, and		
		transparency (you can set the transparency by sliding the slider. The closer the		
		slider is to the left, the lower the transparency value, and the more transparent the		
		foreground color is)		

Style:	From left to right	Foregrou nd color:		~
Transparency:		39 🌲		
Using a gradier	nt from left to rig	,ht as an exampl	e to set transpare	ncy (0-255)
0.000000				
	800 801 9830 9930			
17777				

Range

	Bar chart	×
lasic Attril Appearan	range Scale and Security se Location	
range		
Maximum:	100 Register	
Minimum:	0 Register	
✓ Target interval		
Target value:	50 Register	
Error range (±)	10 Register	
Target interval color		
Alarm range		
Alarm upper limit	90 Register	
Alarm lower limit:	10 Register	
Exceed the upper li	limit	
Fill color:		
Exceeding the lowe		
	v	

	range	Set the display range of the bar graph
	max	Set the max value of the bar graph, which can be specified by setting a register
	min	Set the min value of the bar graph, which can be specified by setting a register
target	target value	Set the target value, and display the set color when the value is within the target
interval		value +/- allowable error
	error range	Used to determine the target range
	target interval	Set target interval color
	color	
alarm	alarm upper	Set the maximum alarm value of the bar graph, which can be specified by setting a
range	limit	register

	alarm lower	Set the minimum alarm value of the bar graph, which can be specified by setting a
	limit	register
	color	Set the lower alarm range liquid color
exceed the	fill color	Set the color of liquids exceeding the upper limit
upper limit		
exceed the	fill color	Set the color of liquids exceeding the lower limit
lower limit		

■ Scale and mark

			Bar chart	
asic Attril App	earan range	Scale and Sec	unity se Location	
Scale				
Scale po:	sition: ④ 外	OF	2	
Main engraving			or scale 12 gth:	
Secondar engraving			scale 5 gth:	
Scale style				
Scale mark color		Sca styl	le mark	- ~
Scale mark width	¢ [
Display	3 🌒	Decimal places	0	
Fo	10 CT		Comment	
Fo 微软的 Co	唯思	↓ Size	General V 12 V	
INJ.EAS				
Co	ercentage			
Co Display p	ercentage	Size	12 v General v	
Co Display p Fo 微統	eercentage 淮黑	Size	12 v General v	

scale		Set whether to display the scale and select a scale style			
scale	e position	Set the position of the scale, including inside and outside			
main	engraving	Set the number of divisions for the main scale			
major	scale length	set the main scale length			
seconda	ry engraving	Set the number of divisions for the sub scale			
subsc	ale length	set the subscale length			
sca	ale style	Set the color, style, and width of the scale			
number	display	Choose whether to display numbers on the bar graph and set the font, size, and			
		alignment for display			
display		Choose whether to display percentages on the bar graph and set the font, size, and			
percentage		alignment to display			
axis	show axis	Set whether to display the axis line at the bottom of the scale			

Security setting

	Bar chart	2
Basic Attril Appearan	range Scale and Security se Location	
Display contro	隐藏 ~	
Devic Addre	本地设备 v Settin PSB v 0	
Enable User permissic	n	
 Hide this User perr range 	component when the user has no permission scope	
. ange		

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-3-7. Buzzer

When the specified coil is triggered or the specified conditions are met, the buzzer emits a sound. This component is invisible and is not visible when downloaded to the HMI.

1. Click the buzzer icon in the menu bar "Parts/Industry/Buzzer" or in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "Buzzer" or select "Buzzer" and right-click to select "attributes" to set attributes.

	Sol	und	×
Basic Attrib	curity se Location		^
Cont	ol ID BU0		
Desc	iption		
- Enabling	© Word) bit	
Read ac	dress		
Devic	本地设备	✓ Settin	
Addre	PSW V 0		
Data type	Word VUnsigner V	t	
Trigger	conditions V 0		
Ring mo	de		
	Make a sound	Continuous sound	

con	trol ID	It is used for system management control, and cannot be operated by users				
description		Can be used to comment on the purpose of this control				
enabling	g conditions	Set the enabling condition to "word" or "bit"				
read address	enabling condition is word enabling condition is bit	Enabling conditions ● Word				
		Devic 本地设备 v Settin Addre pSB v 0				
	device	Select the device port currently communicating with				
	setting	Click "Settings" to enter the address setting interface. This interface allows you to set and use system registers and user-defined tags. You can click the address tag library or project tree - library - address tag library below to set the tags used (see 5-2 Address Tag Library for the use of address tag library and user-defined tags)				

		Address					
		Device	本地设备			~	Statio 0 n No.
		Address type	PSW		~		User defined label
		10 10 10 1	0				System register
		数据类型	Word ~	Unsigned	~		
		Address format	[range : 0 - 99	99]	2.6		
					Determine	Can	Address Label
		2).			Determine	Call	Application
	address	Set the obj	ect address o	f the buzze	r and whether	it is off	set (i.e. indirectly specified)
	data type	Byte-8Bit;	Word-16Bit	; DWord- 3	2Bit; DDWor	d -64Bi	t; BCD code; Hex; Signed;
		Unigned;	Floating nu	mber			
	indirect	Set the current address offset. The current register address changes as the indirectly			ess changes as the indirectly		
	specify	specified re	egister value	changes, th	nat is, Dx [Dy]	=D [x+	Dy value] (x, y=0, 1, 2, 3).
		Example: The current register address is PSW0, if the indirectly specified address is					
		PSW100; When the value of the PSW100 register is 0, the register that controls this					
		component remains PSW0; When the value of the PSW100 register is 1, the register					
		that contro	ls this compo	onent is PSV	W1 (and so on))	
trigger	condition	If the enabling condition is "Word", the setting that meets the conditions					
		">,<,=,!=,>	⊨,<=a certai	n value" is	s valid; If the	enablir	ng condition is "bit", setting
		"OFF" or "ON" is valid					
ring mode	make a sound	When the c	conditions are	e met, only	one sound is n	nade	
	continuous	Keep ringi	ng when con	ditions are	met		
	sound						

Security setting

	Sound
Ē	Basic Attril Security se Location
- 1	Enable control
	Devic 本地设备 v Settin
	Addre pSB v 0
	Enable Sta ON V Indirect
enable	The bit limit can be set (the enabling state of the enabling control can be customized). Only when
	the enabling conditions are met can the component be used normally (as shown in the figur
	above: When PSB0 is in the ON state and the trigger conditions are met, the component can b
	used; if PSB0 is in the OFF state, even if the trigger condition is met, the component is still
	unavailable)

Location

same to chapter 4-1-1 straight line location part. (It is not allowed to modify the size and move horizontally and vertically)

4-3-8. Backlight

This control is used to determine whether to display the backlight. When the backlight control coil is triggered, the screen backlight is turned on, which means exiting the screen saver black screen. If the screen saver is not entered or set to display the screen, this function is invalid. This component is invisible and is not visible when downloaded to the HMI.

1. Click the backlight icon in the menu bar "Parts/Industry/Backlight" or 💷 in the control window's device

bar, move the cursor to the screen, click the left mouse button, click the right mouse button, or use the ESC key to cancel placement.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "Backlight" or select "Backlight" and right-click to select "attributes" to set attributes.

	Backlight	×
Basic Attrib _{Se}	ecurity se Location	^
Cont	rol ID BL0	
Desc	ription	
– Enablin	g conditions	
	Word O bit	
Read ad	ddress	
Devic	本地设备 v Settin	
Addre	PSW v 0	
Data type	Word V Unsignec I Indirect	
Trigge	r conditions 🗸 0	
Backlig	nt action	
7	Extinguish O Awaken	

control ID	It is used for system management control, and cannot be operated by users					
description	Can be used to comment on the purpose of this control					
enabling conditions	Set the enabling condition to "word" or "bit"	Set the enabling condition to "word" or "bit"				
enabling condition is word	Enabling conditions ● Word					

enabling condition is bit		Enabling conditions O Word	
		Read address Settin Devic 本地设备 ✓ Addre pSB ✓	
read	device	Select the device port currently communicating with	
address	setting	Click "Settings" to enter the address setting interface. This interface allows you to set	
		and use system registers and user-defined tags. You can click the address tag library	
		or project tree - library - address tag library below to set the tags used (see 5-2	
		Address Tag Library for the use of address tag library and user-defined tags)	
		Address	
		Device 本地设备 V Statio 0 n No.	
		Address type Vser defined label	
		Address 0 System register	
		Address [range:0-9999] format	
		Address Label	
		Determine Cancel Application	
	address	Set the object address of the control backlight and whether it is offset (i.e. indirectly	
		specified)	
	data type	Byte-8Bit; Word-16Bit; DWord- 32Bit; DDWord -64Bit; BCD code; Hex format;	
	. 1	Signed; Unigned; Floating number	
	indirect	Set the current address offset. The current register address changes as the indirectly $area if ad register value along on that is Dv [Dv] = D [v] = D [v] = 0 [1, 2, 2]$	
	specify	specified register value changes, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). Example: The current register address is PSW0, if the indirectly specified address is	
		PSW100; When the value of the PSW100 register is 0, the register that controls this	
		component remains PSW0; When the value of the PSW100 register is 1, the register	
		that controls this component is PSW1 (and so on)	
trigger	condition	If the enabling condition is "Word", the setting that meets the conditions	
		">,<,=,!=,>=,<=a certain value" is valid; If the enabling condition is "bit", setting	
		"OFF" or "ON" is valid	
backli	backlight action Set the backlight actions, including turning off and waking up		

Security setting

Backlight	×
Basic Attril Security se Location Enable control ✓ Enable Devic 本地设备 ✓ Settin Addre PSB ✓ 0	*
Enable Sta ON V Indirect	
able control The bit limit can be set (the enabling state of the enabling control can be	be customized). Onl
the enabling conditions are met can the component be used normal	lv (as shown in the

used; if PSB0 is in the OFF state, even if the trigger condition is met, the component is still unavailable)

Location

Same to chapter 4-1-1 straight line location part (It is not allowed to modify the size and move horizontally and vertically)

above: When PSB0 is in the ON state and the trigger conditions are met, the component can be

in the figure

4-3-9. Fan

1. Click the fan icon in the menu bar "Parts/Industry/Fan" or S in the device bar of the control window,

move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Fan" or select "Fan" and right-click to select "attribute" for attribute settings.



	Fan	×
asic Attric _{App}	earan Security st Location	
Contr	ol ID FA0	
Descr	iption	
- Action m	ode	
0	Keep rotating Ontrolled by register	
— Enabling	© Word ○ bit	
Read ad	dress	
Devic	本地设备 v Settin	
Addre	PSW V O	
Data type	Word VUnsignet Indirect	
Trigger	conditions V 0	
- Direction	of rotation	
۱	Forward 🔘 Reverse	
- Rotation	al speed	
۱	Constant (%) 10 v	
0	Controlled by register	

control ID	It is used for system management control, and cannot be operated by users		
description	Can be used to comment on the purpose of this control		
action mode	Set the action mode of the fan, including keep rotating and controlled by register		
keep rotating	Set the action mode of the fan to always rotate		
controlled by	Set the action mode of the fan to be controlled by the register		
register	Set the action mode of the fan to be controlled by the register Action mode		
enabling condition	Set the enabling condition of the fan to word or bit		
read address	Set the coil address of the control fan and set whether there is an offset (i.e., indirectly specified)		
device	Select the device port currently communicating with		
setting	Click "Settings" to enter the address setting interface. This interface allows you to set and use		
	system registers and user-defined tags. You can click the address tag library or project tree -		
	library - address tag library below to set the tags used (see 5-2 Address Tag Library for the		
	use of address tag library and user-defined tags)		

	Address		
	Device 本地设备 、 Statio 0 Address PSW User defined label Address 0 System register 数据类型 Word Unsigned Address [range : 0 - 9999] Address Image: 10 - 9999] Address Image: 10 - 9999] Address Image: 10 - 9999] Address Label Determine Cancel Application		
	Set the monitoring address of the fan and set whether to offset the address (i.e. indirectly specify)		
data type	Byte-8Bit; Word-16Bit; DWord- 32Bit; DDWord -64Bit; BCD code; Hex format; Signed;		
	Unigned; Floating number		
indirect specify	Set the current address offset. The current register address changes as the indirectly specified		
	register value changes, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). Example: The		
	current register address is PSW0, if the indirectly specified address is PSW100; When th		
	value of the PSW100 register is 0, the register that controls this component remains PSW0;		
	When the value of the PSW100 register is 1, the register that controls this component is		
	PSW1 (and so on)		
	If "Controlled by Register" is selected		
	If the enabling condition is "word", the setting meets certain conditions >,<,<=,>=,==, != a certain value is valid; If the enabling condition is "bit", setting "OFF" or "ON" is valid;		
	Set the rotation direction of the fan, including forward (clockwise) and reverse		
	(counterclockwise) directions		
	Set the rotational speed of the fan, which can be set as a constant, or set a register to control		
-	the speed (when the speed set in the register is 10, flow at the lowest speed of 10, when set to		
	100, flow at the highest speed of 100)		

Appearance

10.00		Vse pictu	res		
		Status	0	~	
		Name	fan_05_a		
		catego	ry svg		
		Size	100 × 100		
Cha	inge appearance		More	pictures	
Border					

 change appearance
 Set display appearance

 use pictures
 Set whether to use pictures.

 You can set the appearance of clicking in three states (0, 1, 2). After selecting the state in the upper right corner, click "Change Appearance" or click "More Pictures" to select custom

	images to change the appearance
fill	Set the fill style (solid/gradient) and fill color
border	Set border style (solid/gradient) and border color

■ Security setting

asic Attril Appearan Security se Location Display control	
When 隐藏 v	
Devic 本地设备 v Settin	
Addre pSB v 0	
Enable Sta ON V Indirect	
User permission	
Hide this component when the user has no permission scope	
User permission Permission1 v range	

same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-3-10. Agitator

1. Click the agitator icon in the menu bar "Parts/Industrial/Agitator" or 🔀 in the control window's device bar,

move the cursor to the screen, click the left mouse button to place, click the right mouse button, or press ESC to cancel placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click "agitator" or select "agitator" and right-click to select "attributes" to set attributes.



			Agitator	×	
	Ba	sic Att Appeara Security Location		^	
		Control ID RA0			
		Description			
		Read address Devic 本地设备	Cattin	1	
		Addre pSB v (Settin		
			Indirect		
		logic			
		Positive logic	O Negative logic		
		Direction of rotation			
		Forward	Reverse		
		Rotation speed			
		Constant (%)	10 ~		
		O Controlled by register			
	ntrol ID	It is used for system managed	-		5
	cription	Can be used to comment o			
read	device	Select the device port curr			
address	setting	Click "Settings" to enter t			
		use system registers and	-		
		project tree - library - add Library for the use of addr			e 5-2 Address Tag
		Library for the use of addi	ess tag norary and us	ci-ucificu (ags)	
			Address	×	1
		Device 本地设备	Address	× Statio n No.	
		Address PSB	Address ~	Statio 0	
		Address type	Address ~	✓ Statio n No. User defined label	
		Address type Address 0	Address ~	✓ Statio n No.	
		Address type	Address ~	✓ Statio n No. User defined label	
		Address type Address 0 Address [range : 0 - 9999]	Address ~	✓ Statio n No. User defined label	
		Address type Address 0 Address [range : 0 - 9999]	Address ~	✓ Statio n No. User defined label	
		Address type Address 0 Address [range : 0 - 9999]	Address ~	✓ Statio n No. User defined label	
		Address type Address 0 Address [range : 0 - 9999]	~	 Statio n No. User defined label System register Address Label	
		Address type Address 0 Address [range : 0 - 9999]	Address ~ Determine	Statio n No. User defined label	
	address	Address PSB Address 0 Address [range : 0 - 9999] format	V	 Statio 0 No. User defined label System register Address Label Cancel Application	er there is an offset
	address	Address PSB type Address Address 0 Address [range : 0 - 9999] format Set the coil address that contact the conta	V	 Statio 0 No. User defined label System register Address Label Cancel Application	er there is an offset
	address	Address PSB Address 0 Address [range : 0 - 9999] format	Determine ontrols the action of	 Statio 0 No. User defined label System register Address Label Cancel Application	
	T	Address type Address format Set the coil address that co (i.e. indirectly specified)	Determine ontrols the action of Set. The current regis	Statio n No. User defined label System register Address Label Cancel Application the agitator, and set whether ter address changes as the	indirectly specified
	indirect	Address PSB type Address Address 0 Address [range : 0 - 9999] format [range : 0 - 9999] Set the coil address that co (i.e. indirectly specified) Set the current address off [range : 0 - 9999]	Determine Determine ontrols the action of Set. The current regis at is, Dx [Dy]=D [x-	Statio o n No. User defined label System register Address Label Cancel Application the agitator, and set whether ter address changes as the throw value] (x, y=0, 1, 2, 3)	indirectly specified 3). Example: The
	indirect	Address type Address Address format Set the coil address that co (i.e. indirectly specified) Set the current address offi register value changes, that	Determine Ontrols the action of Set. The current regis at is, Dx [Dy]=D [x- PSW0, if the indire	Statio n No. User defined label System register Address Label Cancel Application the agitator, and set whether ter address changes as the Dy value] (x, y=0, 1, 2, 3 ctly specified address is P	indirectly specified 3). Example: The SW100; When the
	indirect	Address type Address Address format Set the coil address that co (i.e. indirectly specified) Set the current address offi register value changes, tha current register address is value of the PSW100 regi	Determine Determine ontrols the action of Set. The current regis at is, Dx [Dy]=D [x- PSW0, if the indire ster is 0, the register	Statio n No. User defined label System register Address Label Cancel Application the agitator, and set whether ter address changes as the Dy value] (x, y=0, 1, 2, 3 ctly specified address is P	indirectly specified 3). Example: The SW100; When the ent remains PSW0;

logic	Select the agitator action state as positive logic or negative logic;	
	Positive logic: Start action when the set coil is in the ON state; Negative logic: Start action	
	when the set coil is in the OFF state	
direction of rotation	Set the rotation direction of the mixer, including forward (clockwise) and reverse	
	(counterclockwise) directions	
rotation speed	Set the rotation speed of the agitator, which can be set as a constant, or set a register to	
	control the speed (when the speed set in the register is 10, flow at the lowest speed of 10,	
	when set to 100, flow at the highest speed of 100)	

Appearance

	Agitator		x
Basic Att Appeara Security Location			^
â	✓ Use pictu	res	
	Status	0 ~	
	Name	agitator_04_a	
or c	categor	y svg	
	Size	90 × 180	
BolChange appearance	Border	color 📃 👻	

change appearance	set the display appearance
use pictures	Set whether to use pictures
	You can set the appearance of clicking in three states $(0, 1, 2)$. After selecting the state in the
	upper right corner, click "Change Appearance" or click "More Pictures" to select custom
	images to change the appearance;
border	Set border style and color

■ Security setting

and and a second	Agitator
^	ic Att Appeara Security Location
	Display control I Enable When 隐藏 v
	Devic 本地设备 v Settin Addre PSB v 0
	Enable Sta ON v Indirect
	User permission
	 Hide this component when the user has no permission scope User permission Permission1 range
	Devic 本地设备

same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

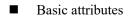
4-3-11. Water pump

This control is used to simulate the operation process of the on-site water pump. When the target coil reaches the specified state, the water pump starts to operate.

1. Click the water pump icon in the menu bar "Parts/Industry/Water Pump" or in the control window's equipment bar, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Water Pump" or select "Water Pump" and right-click to select "attributes" for attribute settings.





		Water pump	×
isic Att <mark>i</mark> A	ppeara Security Locatio	и г	^
Cont	trol ID WP0		
Desc	ription		
Read ac	ldress		
Devic	本地设备	✓ Settin	
Addre	PSB 🗸	0	
		Indirect	
logic			
(Positive logic	O Negative logic	
Directio	on		
0	Forward	O Reverse	
Speed			
(Constant (%)	10 🛩	

con	control ID It is used for system management control, and cannot be operated by users			
des	cription	Can be used to comment on the purpose of this control		
read	device	Select the device port currently communicating with		
address	setting	Click "Settings" to enter the address setting interface. This interface allows you to set and		
		use system registers and user-defined tags. You can click the address tag library or the		
		project tree - library - address tag library below to set the tags used (see 5-2 Address Tag		
		Library for the use of address tag library and user-defined tags)		
		Address		
		Device 本地设备 v Statio 0 n No.		
		Address type PSB V User defined label		
		Address 0 System register		
		Address [range : 0 - 9999] format		
		Address Label		
		Determine Cancel Application		
	address	Set the controlled address of the water pump, and set whether there is an offset (i.e.		
		indirectly specified)		
	indirect	Set the current address offset. The current register address changes as the indirectly specified		
	specify	register value changes, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). Example: The		
		current register address is PSW0, if the indirectly specified address is PSW100; When the		
		value of the PSW100 register is 0, the register that controls this component remains PSW0;		
		When the value of the PSW100 register is 1, the register that controls this component is		
		PSW1 (and so on)		
1	ogic	Select the pump action state to be positive logic or negative logic		

	Positive logic: Start action when the set coil is in the ON state; Negative logic: Start action		
	when the set coil is in the OFF state		
direction	Set the rotation direction of the water pump, including forward direction (water flow from		
	left to right) and reverse direction (water flow from right to left)		
speed	Set the flow speed of water flow, which can be set as a constant, or set a register to control		
	the speed (when the speed set in the register is 10, flow at the lowest speed of 10, when set		
	to 100, flow at the highest speed of 100)		

Appearance

	Status	0	~	
			· ·	
	Name	pump_01_b		
No. 1	categor	y svg		
	Size	95 × 110		

change appearance	Set display appearance	
use pictures	Set whether to use pictures;	
	You can set the appearance of clicking in two states: $(0, 1)$. After selecting the state in the	
	upper right corner, click "Change Appearance" or click "More Pictures" to select custom	
	images to change the appearance	
border	Set border style and color	

Security setting

Water pump	×
asic Att Appeara Security Location	^
Display control ▼ Enable When ◎藏 ✓ Devic Addre PSB ✓ 0 □ Indirect	
Enable Sta ON V Indirect	
 Hide this component when the user has no permission sco User permission range 	pe

same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-3-12. Valve

This control is used to simulate the operation of valves in the field control system. The following valve states are in the closed and open flow states, respectively.

1. Click the icon in the menu bar "Parts/Industry/Valves" or 📓 in the control window's device bar, move the

cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Valve" or select "Valve" and right-click to select "attributes" for attribute settings.



1. <u> </u>		Valve		2
Basic Att	Appeara Security Locati	or		
Cor	ntrol ID V0			
Des	cription			
	ead / Write use different	t address		
Devic		~	Settin	
Addre		0		
	<u></u>	Indirect		
Write	address			
Devic	TADACH	Ŷ	Settin	
Addre	PSB v	0		
		Indirect		
Action				
	Conduction O Clean	ose 🔿 On	/ off	On when pressed
- logic -				
	Positive logic	🔘 Ne	gative logic	
Directi	ion			
	Forward	O Re	verse	
Speed				
	Constant (%)	10	~	
	Controlled by regist	terr		
_	6		and compa	the energy of h
D It is used :	for system manag	gement contro	on, and canne	n de operated d

different address	Numerical Input for the description of the reading/writing address)			
read address	Set the read address of the valve and set whether there is an offset (i.e. indirectly specified)			
write address	Set the write address of the valve and set whether there is an offset (i.e. indirectly specified)			
indirect specify	Set the current address offset. The current register address changes as the indirectly specified			
	register value changes, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). Example: The			
	current register address is PSW0, if the indirectly specified address is PSW100; When the			
	value of the PSW100 register is 0, the register that controls this component remains PSW0;			
	When the value of the PSW100 register is 1, the register that controls this component is			
	PSW1 (and so on)			
action	Select the control action of the valve			
ON	After triggering, the valve is always open			
OFF	After triggering, the valve is always close			
ON/OFF	When triggered for the first time, the valve is in the open state, and when triggered again, it			
	in the closed state, which is reversed			
ON when pressed	When pressed, the valve is in an open state; When released, the valve is closed			
logic	Select whether the valve action state is positive logic or negative logic;			
	Positive logic: Start action when the set coil is in the ON state;			
	Negative logic: Start action when the set coil is in the OFF state			
direction	Set the flow direction of water flow, including forward direction (water flow from left to			
	right) and reverse direction (water flow from right to left)			
speed	Set the flow speed of water flow, which can be set as a constant, or set a register to control			
	the speed (when the speed set in the register is 10, flow at the lowest speed of 10, when set to			
	100, flow at the highest speed of 100)			

■ Appearance

	🗹 Use pictu	res	
C.S.	Status	0	Ý
L	Name	valve_05_b	
	categor	y svg	
	Size	110 × 85	

change appearance	Set display appearance
use pictures	Set whether to use pictures
status	There are two optional states, 0 and 1, to set the state of the control
name	Display the name of this control
category	Display the category of this control
size	Displays the current size of the control
border	Set border style and color

Security setting

	Valve	>
sic Att Appeara	Security Location	
Operation con Confirm b Key delay	<u> </u>	
Display contro	1	
✓ Enable		
When	隐藏 ~	
Devic	本地设备 v Settin	
Addre	PSB v 0	
Enable	Sta DN v Indirect	
Enable control		
Devic	本地设备 v Settin	
Addre	PSB v 0	
Enable	Sta ON 🗸 🗌 Indirect	
– User permissio	n	
	rmission after operation	
C. Destruction of the second	window pops up when the user has no permission range	
the state of the second second	component when the user has no permission scope	
User per	nission Permission1 🗸	

Same to chapter 4-2-10 indicator key security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-4. Alarm

4-4-1. Alarm entry

Click "Parts/Alarm/Alarm Entry" in the menu bar or click Alarm entry to add alarm objects and corresponding alarm information to the pop-up window, which can be imported/exported to the computer for alarm display.

	Alarm e	entry		×
Alarm group Group Group 0		alarm group e point English		^
Add Modify Insert Delete	Delete all Copy Paste Import	Export		
Select Alarm No.	Emergency Trigger conditions	Alarm content	Sound	
Group 0.Gr 0	Low PS80 ON	tempearture high	Disable	
Group 0:Gr. 1	Low PSB0 ON	overvoltoge	Disoble	
Historical event saving				
Storage location				
⊛н ⊖∪				
Export Control				
File				
File alarmEdit				
Fixed file O Date				
Storage capacity				
65535 Count	¥			
When the storage space is Stop saving 	nsufficient Overwrite old records			
☑ Data retention days				
Retention d1	Day			
Save				
Select	Project	^ Move up		
✓	No.			
	Alarm Trigger Date	Move down		32
<	Alarm Trigger Time	Move down		> ×
		11		
		Determine	Cancel Application	nc

■ Alarm group

alarm group	Set the group of the alarm group, and select the corresponding group display in the alarm
	display
edit alarm group	Click to set the name of each alarm group
name	

Information

add	add alarm information
modify	Modify the selected alarm information, and the modify information interface is consistent
	with the add information interface
insert	Insert an alarm message below the selected alarm message
delete	Delete the selected alarm information
delete all	Delete all alarm information

сору	Tick the alarm information to be copied in the front box		
paste	Paste the copied information, and the pasted alarm information will be displayed on the last		
	line		
import	Import an edited Excel file from your computer		
export	Export the alarm information edited in the software as an Excel file to the designated location		
	in the computer		

Before clicking Add, you must first select an alarm group in the group, otherwise a prompt to select an alarm group will pop up, as shown in the following figure:



After clicking Add, you can add alarm signals and corresponding alarm information in the pop-up window, as shown in the following figure:

			Alarm entry		
Alara group (serial	0	Nane	Energency level	Lov	•
Trigger condition (● Bit ○ Vo	rd register			
ead address					
Devic 本地设备 v Settin		Settin			
Addre	PSB	~ 0			
		Indirect			
Conditions(an	*			
Alara conte	ent				
Tevt					
					Insert monitoring
Sound					
🗌 Bnable		Buzzer tineout (1	. Y		
Alarn po	⊊-up vindoπ				

Alarm Group Serial	Display the current alarm group and cannot be modified
Number	
name	Custom alarm name
emergency level	Set the alarm urgency level of the current alarm information. You can select "Low, Normal,
	High, and Urgent" to increase the urgency level in turn
read address	Set the displayed address; You can also set whether there is an offset (i.e. indirectly

	specified)				
device	Device port currently communicating				
address	Set target coil number				
setting	Click "Settings" to enter the address setting interface. This interface allows you to set and				
	use system registers and user-defined tags. You can click the address tag library or the				
	project tree - library - address tag library below to set the tags used (see 5-2 Address Tag				
	Library for the use of address tag library and user-defined tags)				
	Address				
	Device 本地设备 v Statio 0 n No.				
	Address type				
	Address 0 System register				
	Address [range:0-9999] format				
	Iomat				
	Address Label				
	Determine Cancel Application				
indirect specify	Set the current address offset. The current coil address changes with the indirectly specified				
	register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). Example: The current				
	coil address is PSB0, if the indirectly specified address is PSW100; When the value of the				
	PSW100 register is 0, the coil that controls this element remains PSB0; When the value of				
	the PSW100 register is 1, the coil that controls this element is PSB1 (and so on)				
condition	Set the trigger conditions for alarm information, and you can select bit registers and word				
	registers; When selecting a bit register, you can choose to set the trigger conditions to ON,				
	OFF, ON ->OFF, and OFF ->ON, which can be selected according to project needs. When				
	selecting a word register, you can choose to trigger when >, <, =, !=, >=, <= a certain value				
alarm content	Edit the text information or multilingual display of the alarm (refer to 5-1 for the description				
	of the multilingual library for specific use). You can select to insert the register address				
	display. After clicking "Insert Monitoring", edit the required information in the pop-up				
	window and select it. The information of the set monitoring address will be displayed in the				
	alarm content.				

		Inserted content — 🗖 🔀
		Category Monitoring address
		Name Monitor address setting
		value2 Variable value1
		Address name
		type Value V
		Devic 本地设备 v Settin Addre pSW v 0
		Data word v Unsigner v
		Data format
		Integer 4 Decimal 0 Leading 0
		digits digits digits county o
		Determine Cancel Appl
		Add Modify Delete Delete all Select and Exit
		Add: Add the information to be monitored, which can monitor values, characters, and
		Chinese.
		Modify: After selecting the line to be modified, the line turns blue. Click modify to modify the set information.
		Delete: delete the selected row.
		Delete All: delete all content.
		Select and Exit: Select the monitoring content to be displayed, and click "Select and Exit".
		The software will automatically generate a {variable name} after the alarm content. When
		the alarm information is displayed, {} will not be displayed, but the content of the
		corresponding register set will be displayed.
		Alara content
		Tevt Multiling
		overvoltage{value2}
		Insert aonitoring
sound	sound enable	When checked, the buzzer will sound when the alarm is triggered. If the selected touch
		screen model is TS5L series, the alarm sound can be customized. Refer to 5-4 Audio
		Resource Library for usage methods
	buzzer	Set the time for the buzzer to sound, in seconds, selectable from 1 to 30 seconds
	timeout	
ala	rm pop-up	When checked, the selected window will be displayed on the touch screen when the alarm is
	window	triggered
		Alarn pop-up window
		Pop up win [20002]Local informa v
		Pop up cycle
		Pop up once Pop up cycle
		Crop up cycle Close the window after the alarm

	рор	up	Select the window to pop up, and it will pop up on the touch screen after the
	window		alarm is triggered
	pop up c	ycle	Popup once: only pop up once. After clicking Close, the window will not pop
			up again even if the alarm does not disappear
			Popup Cycle: After the alarm is triggered, the window will pop up. When the
			window is closed and the alarm signal does not end, it will pop up again at
			the set cycle. The default cycle is 1000 milliseconds, that is, 1 second (the
			pop up cycle unit can be customized in milliseconds/seconds/minutes)
	close	the	After checking, if the window has not been manually closed since it pops up,
	window	after	it will actively close the window when the alarm signal disappears
	the alarm	1	

Historical event saving

Storage location			
● H ○ U			
✓ Export Control /0	Control address information		
File			
File alarmEdit			
\odot Fixed file \bigcirc Date	○ Register		
Storage capacity			
65535 🗘 Count	~		
When the storage space is i	nsufficient		
Stop saving O C	Overwrite old records		
✓ Data retention days			
Retention d	Day		
Save			
Select	Project	^	Move up
✓	No.		
✓	Alarm Trigger Date		Move down
~	Alarm Trigger Time		move down

Set whether to store the selected alarm information in the touch screen. When checked, the generated alarm information will be stored in the touch screen. You can use the alarm list to display historical alarm information.

	1 5
storage location	To set the storage location, you can select HMI or USB flash disk, or use a register to
	specify the storage location. For example, if you set the register PSW0, then when
	PSW0=1, the storage location is HMI; When PSW=3, the storage location is a USB flash
	drive
	When simulating, the storage location of alarm information is:
	(1) Save to USB flash drive: software directory Temp/Run/storage/udisk/alarm
	(2) If you choose to save to the hmi: software directory Temp/Run/db/alarm, saving
	files in this way cannot be directly opened for viewing. To view, you need to export
	to a USB flash drive through the export control register, and then view the exported
	files in the path saved to the USB flash drive
HMI export	Set the export control register (if set to PSW0, three consecutive addresses with PSW0 as
	the first address control different states), and click "Control Address Information" to

	preview
	Prompt
	Command:PSW0 1.Export alarm data to U disk
	2.Export alarm data to U disk and clear the d
	speed of progress:PSW1
	1.The value of 0-100 indicates the progress,
	result:PSW2
	0. Data export
	1. Data export succeeded
	2. The export device does not exist
	the second s
	Note: This function takes effect only when the storage location is selected as HMI or
	specified as HMI by using "Register Specified Storage Location".
	"When inputting 1 or 2 to the command register, the database can be controlled to be
	exported to a USB flash drive, and the exported file format is xjdb. The xjdb to csv tool can
	be opened by double clicking on the software root directory Tool\XJDbTool\
	XJDbTool.exe, which is set as the default opening method for xjdb. After opening, enter the
	path name of the csv, and click "Export" to convert the xjdb format file to a csv format file.
file	Set stored file information
file	Set the name of the stored file, with which the system will store data
fixed file name	The stored file name is fixed, that is, the name set in the file name (the file name supports
	up to 200 characters)
Date Specify File Name	The stored file name is named with a date, such as the file exported on May 29, 2021, with the file name 20210529
Dynamically specify	Set a register address, and the stored file will be named after the contents of the register.
file name	When selecting a dynamically specified file name, you need to select a string type register
The name	such as character input and Chinese input. (File names support up to 200 characters)
storage capacity	Set the total amount of collected data information
storage capacity	Maximum storage capacity 65535 pieces
when the storage	Stop saving or overwriting old records when the storage space is insufficient
space is insufficient	- · · · · · · · · · · · · · · · · · · ·
stop saving	When checked, stop saving data when the storage space is insufficient
overwrite old	When checked, when the storage space is insufficient, it will continue to save and overwrite
records	the old records
data retention days	The default time for storing files on the screen is 1 day. After the time expires, the files will
	be deleted. The maximum retention time for files can be set to 1000 days
save	Set the stored items and sorting, and select serial number, alarm trigger date, alarm trigger
	time, alarm information, confirmation time, alarm times, and alarm recovery time



Note: Whether you choose "Fixed File Name" or "Dynamically Specify File Name" for a saved file name, the following characters are not supported for file names: //: *? " <> |-#; \$! @ & ().

4-4-2. Alarm display

Display historical alarm information in a table, allowing you to query records for a certain period of time.

Click alarm display icon in the menu bar "Parts/Alarm/Alarm Display" or in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.
 When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click "Alarm Display" or select "Alarm Display" and right-click to select "attributes" for attribute settings.

	Alarm display
	Basic Attribu Display Appearance Alarm query Security set Location
	Control ID AD0
	Description
	Alarm source
	Display group range 0 v 254 v Alarm entry
	☑ Use title
	Text O Multiling
	Table title List Data Synchronize language font styles Fo Times New Roman Ceneral Co Size 12 Ali Middle_Center Row h30
Control ID	It is used for system management control, and cannot be operated by users
description	Can be used to comment on the purpose of this control
alarm source	Set the source of the alarm and customize the alarm group range to be displayed (if the selection
	range is 0-0, only the alarm information selected for the 0th group will be displayed, and other
	groups will not be displayed)
use title	When checked, the table title is displayed at the top of the table
text	Edit title content
multiling	If you want the title to be displayed in multiple languages, check this option to directly launch an
	existing multilingual library or add a new multilingual library (see 5-1 Label Multilingual for
	specific usage of multilingual libraries).
font	Set the font color size alignment and row height of the table title/list title/list data. You can

Display

Baic Attribit Dipley Appearance/Alarm query/security set Location Alarm mode Real time History Number of alarms Total number 100 Perifies parage 100 Use Auto-fit column width Select Trigger date Trigger date 108 Marm information Alarm information 48 Alarm information 44 Move up Move down Restore default Integer date 104 Move up Move down Restore default Integer date Integer date Of transpectation Alarm information Alarm information Integer date Integer date Of transpectation Reverse chronological Dete Integer date Integer date Integer date Integer date When thormation displayed in the current table is real-time or historical. Time HEAMMSS Integer date Information content will not be displayed. Itam When this option is selected, the table will not only display real-time alarm information, but display alarm information current y in the alarm information, but display alarm information for the history of ended alarms in the table. Set the total number of alarms displayed on the current page. Informat			Alarm display		×
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multilingual settings, or the project tree - Library - Label Multilingual management (see 5-1 Label Multilingual for specific usage). Title Title Description Settings No Trigger date Trigger time		displayed on th	ie current page.		
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No. Trigger date Trigger time					,
Trigger date Trigger time			Title Title Description	Settings	
Trigger time					
		Tr	rigger date		
Alarm information					
		Tr	rigger time		
auto-fit When checked, column widths cannot be customized, and the software		Tr	rigger time	***	

	column	automatica	ally adjust to the most suitable size based on the project image.
	width		······································
		plaved info	rmation content, and you can select serial number, alarm trigger date,
	-		prmation, confirmation time (only available in history mode), alarm times,
			e (only available in history mode).
	project	-	splay items for each column of the table.
	1 5	No.	Displays the number of the table column.
		trigger	Date when the alarm was generated.
		date	
		trigger	The time when the alarm occurred.
		time	
		alarm	Preset content in alarm entry.
		info	
		confirm	The time at which the confirmation operation was performed. (This item
		time	is not available when the mode is selected as real-time)
		alarm	Current alarm times.
		times	
		recover	The time when the alarm disappears. (This item is not available when
		time	the mode is selected as real-time).
		If you nee	d to adjust the order of items, you can click the "Move Up, Move Down"
		button. If y	you need to restore the default sorting, you can click "Restore Default".
	title	Set the tit	le name for each column, which is consistent with the project name by
	description	default. Yo	ou can change it to a name that meets your own requirements as needed.
	column	Set the co	plumn width for each column, which can only be modified if Auto-fit
	width	Column W	/idth is not checked.
time sort	Set the info	rmation dis	play mode and select whether the latest alarm is displayed before or after.
chronological order	According	to the sequ	ence of alarm time generation, the first After selecting "Display
	generated a	alarm infor	mation is displayed at the top and the Unrecovered Alarm
	following	generated	alarm information is displayed at the Information at the Top", the
	bottom of	the table.	That is, the latest alarm information is unrecovered alarm
	displayed at	t the bottom	n of the table. information will be displayed
reverse	In contrast	to the chror	nological order, the alarms generated first centrally at the top of the table
chronological	are displaye	ed at the bo	ottom, and the alarms generated later are regardless of the time
	displayed a	it the top,	that is, the latest alarm information is sequence.
	displayed a		
date time format	Set the form		
enable confirm		-	orm information confirmation. This option is only available if the alarm
	mode is sele		-
mode			mation confirmation.
single click			omatic confirmation will be generated when an alarm message is clicked,
			e will be generated.
double click			comatic confirmation will be generated when you double-click an alarm
	-		nation time will be generated.
long press			rm message will be automatically confirmed when long pressed, and a
	confirmatio	n time will	be generated.

information hiding	After checking, specify a register to control the display of alarm information, as shown in the
control	following figure. You can hide confirmed information, recovered information, or unrecovered
	information, or use them in combination (only available if the alarm mode is selected as
	History).
	✓ Enable Confirm
	Mode Single click Double-click Long press
	Information hiding control
	Bit0 (hide confirmed information); Bit1 (hide recovered information); Bit2 (hide unrecovered informatic
	The information hiding control is using the 0th, 1st, and 2nd bits of the binary system, and then
	input the corresponding decimal system in the set register for control.
	If the information control register is set to psw0
	Hide confirmed information: Binary: 0001; Decimal: 1, psw0 Enter 1 to hide confirmed
	information;
	Hide recovered information: binary: 0010; Decimal: 2, psw0 Enter 2 to hide recovered
	information;
	Hide unrecovered information: binary: 0100; Decimal: 4, psw0 Enter 4 to hide unrecovered
	information;
	To hide confirmed and recovered information: binary: 0011, decimal: 3, psw0 Enter 3 to hide;
	The rest are hidden in the same way.

■ Appearance

10	Alarm display
В	asic Attribi Display Appearance Alarm guery Security set Location
	Table
- 1	Backgrou V Title descript V
	- ✔ Outer frame
	Line style V Line color
	Line width 1
	✓Show grid
	Line style
	Line width 1 V
	When the alarm is triggered
	text Backgr
	Alarm confirm
	text Backgrown
	Alarm recovery
	text Backgrown
able	Set the color of the table border and background.
kground	Set the background color of the entire table.
ackground	Set the background color of the table header row. If the header is not checked,

	effect.			
outer frame	Choose whe	ther to display the table outline.		
	line style	Set the line style of the outer frame of the table. You can select straight lines,		
		dashed lines, points, and point lines, as shown in the figure.		
	line color	Set the line color for the table outline.		
	line width	Set the line width of the outer frame.		
show grid	Choose whether to display the grid within the table.			
	line style	Set the line style of the grid of the table. You can select straight lines, dashed lines,		
		points, and point lines, as shown in the figure.		
	line color	Set the line color for the table grid.		
	line width	Set the line width of the grid.		
when the alarm	Set the text	display color and background color of the corresponding alarm information content		
is triggered	when the alarm is triggered.			
	text	Set the text display color of the alarm message content.		
	background	Select the background display color for the alarm message content.		
alarm confirm	Set the text	display color and background color of the corresponding alarm message content		
	after alarm c	confirmation.		
	text	Set the text display color of the alarm message content.		
	background	Select the background display color for the alarm message content.		
alarm recovery	Set the text	display color and background color of the corresponding alarm information content		
	after the alar	m is restored.		
	text	Set the text display color of the alarm message content.		
	background	Select the background display color for the alarm message content.		

Display the alarm color when an alarm occurs. Display the confirmation color when the alarm has not been restored and has been confirmed. Display the restored color when the alarm is restored and confirmed. Alarm information clearing: The internal address of the button is SPSB120, which triggers the clearing of alarm information.

Alarm query

1 Export

asic Attribute:	Display	Appearance	Alarm query	Security	/ setting	Location	
Picture	PSB0	Export conditio ON-	>OFF ~	Export Format	PNG	~	
		conditio		Format	No. and		
Use the que	ry function						
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						
Pictu							

r /**						
的年代的						
2 AMPLORM	P1 TC0 202321	P1_TC0_202321	P1 TC0 202321	P1_TC0_202321	P1 TC0 202321	P1 TCB 202321
Drive	019051	019108	0184927	0185037	0185524	0192133
8						

2 Query

directly check the

The information found will be displayed in the alarm display table. If you need to use this function, you can

Use the query function

in the alarm display table.

Basic Attribute:	Display	Appearance	Alarm query	Security setting	Location	
Picture	PSB0	Export conditio ON-	>OFF ~	Export Format	~	
Use the que	ry function					
Query method	i					
Query by	date (Ouerv by time	perio Ouerv	by group Quer	v by numb	erv by level

There are 5 query methods: query by date, query by time period, query by group, query by number, and query by level. The user can choose any of these five query methods, or dynamically specify the query method through registers. The specific methods are as follows:

query control Set an address, and when set to this address, the query function will be triggered, and the query results will be displayed in the table.

(1) query by date

Enter the date to query, and all alarms under this date will be filtered out and displayed in the table.

Query set	ttings	
Query	/ control	
	PSB0	
Query	date	
	hursday , March	Register control

You can also select "Register Control" to dynamically set the query address. As shown in the following figure, if you set a header address, such as PSW0, the query address will occupy a total of 3 addresses from PSW0 to PSW2, where PSW0 represents the year, PSW1 represents the month, and PSW2 represents the day, all of which are single word unsigned numbers. For example, PSW0=2021, PSW1=5, and PSW2=29, the alarm record information on May 29, 2021 will be queried.

	DCDO		
Query o	PSB0		
Query	E Contra		
	hursday , March 🗡	Register control	PSW0
			5000
	PSW0:年(元行	号数方式输入,YYYY格式,(91912004)
	PSW1:	Month (input in unsigned	d number format, MM fo

(2) Enter the start time and end time to query in the specified address, set the query control address, and

then display all the alarm information filtered out for this time period in the alarm table.

Fron	n Thursday ,	March ∨	10	Ho 0	Minute	Second
То	Thursday ,	March ∨	11	Ho 0	Min 26	Second

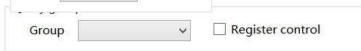
Register control

Similarly, you can also use register control. After setting the first address, 12 register addresses including the first address will be occupied. The first 6 addresses represent the year, month, day, hour, minute, second of the start time, and the last 6 addresses represent the year, month, day, hour, minute, second of the end time. The format is consistent with that set manually.

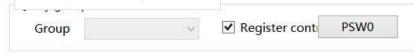
rom	Thursday ,	$March \lor$	10	Ho 0	Minute	Second
o [Thursday ,	March \vee	11	Hol	Min 26	Second
		🗹 Registe	er contro	PSW0		
	PS	W0 ~ PSW5	i Represe	nt start time	e Year/Month	/Day Ho
	DC		1 Depres	ant and tim	e Year/Month	Day Ho

(3) Query by group

Select an alarm group, which is the newly added alarm group in the alarm login. When the query control address is triggered, the information for the specified group will be displayed in the alarm display table.



After selecting register control, you need to set a register and select the alarm group number to query in this register. This number is the alarm group number set in the alarm login. After the query trigger bit is triggered, the information of the specified group will be displayed in the alarm display table



(4) Query by number

Select the alarm number. When the query control address is triggered, the information of the specified number will be displayed in the alarm display table.



After selecting register control, it is necessary to set a register in which to set the alarm number to be queried. After the query trigger bit is triggered, the information with the specified number will be displayed in the alarm display table

No.	0	4 ¥	Register cont	PSW0

(5) Query by level

Select an alarm level that matches the level set in the alarm login. When the query control address is triggered, the specified level of information will be displayed in the alarm display table.

- 10-11			
Level	Low	~	Register control
			Register value(0~3) represent alarm level low, normal, high

After selecting register control, you need to set a register in which to set the level to be queried. Values of 0 to 3 indicate the alarm level: Low, Normal, High, and Urgent. After the query trigger bit is triggered, the specified group of information will be displayed in the alarm display table.

Level	Low	~	Register cont	PSW0	
			Register value(0~3) represent alarm level low, n	ormal, hig

(6) register control query

Use registers to dynamically specify the query method. 0 indicates query by date, 1 indicates query by time period, 2 indicates query by group, 3 indicates query by number, and 4 indicates query by level. Users can choose according to their needs.

Query by date	Query	by time period ○ Query by group ○ Query by numbe○ Query by level
Register control c	PSW0	Register value 0:by date 1: by time period 2:by group 3:by number 4:by le
Query settings		
Query control		
PSBO		
Query register		
PSWC)	

Security setting

	Alarm display
Basic Attribi Dise	play Appearance Alarm query Security sett Location
Display contro	I
✓ Enable	
When	◎癒 ∨
Devic	本地设备 v Settin
Addre	PSB v 0
Enable	Sta ON v Indirect
- Enable control	
🗹 Enable	
Devic	本地设备 Settin
Addre	PSB v 0
Enable	Sta ON v Indirect
User permissio	n
Cancel pe	rmission after operation
A prompt	window pops up when the user has no permission range
☐ Hide this	component when the user has no permission scope
User per	mission Permission1 V

Same to chapter 4-2-10 indicator key security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-4-3. Alarm bar

1. Click 🛋 alarm bar icon in the menu bar or Parts/Alarm/Alarm Bar in the device bar in the control window,

move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or you can double-click the "Alarm Bar" or select the "Alarm Bar" and right-click to select "attributes" for attribute settings.

		×					
	Basic Attr Displ	ay Security Location					
	Control ID	DA0					
	Description						
	- Alarm source	• ·					
	Display	0 ~ 254 ~	Alarm entry				
	group range						
	Use	r T source as	Za En contracto contracto atruto contracto				
	Select	Project No.	Title Title Description				
	· ·	Trigger date	Trigger date				
	~	Trigger time	Trigger time				
		Alarm information Alarm times	Alarm information Alarm times				
	✓						
	Move up Move down Restore default Time sort Chronological order Reverse chronological order 						
	Date time for	rmat					
	Date YY/MM/DD Y Time HH:MM:SS Y						
	Moving sp S	peed1 v					
control ID	It is used for	system management control,	and cannot be operated by	users			
description	Can be used	to comment on the purpose of	this control				
alarm source	Set the sourc	e of the alarm and select a gro	oup from the alarm input (i	if the selection range is 0-0,			
	only the alar	m information for the selected	d group 0 will be displayed	d, and other groups will not			
	be displayed))					
use	If the alarm	bar displays content in multip	ple languages, check this o	option to directly launch an			
multi-language	existing mult	tilingual library or add a new	v multilingual library (see	5-1 Label Multilingual for			
	specific usag	e of multilingual libraries)					
project	Edit the displ	lay items for each column of t	he table				
No.	Display the s	equence number of the table of	column	If you need to adjust the			
trigger date	Date when th	e alarm was generated		order of items, you can			
trigger time	Time when the	he alarm was generated		click the "Move Up,			
alarm	Preset conten	nt in alarm entry		Move Down" button. If			
information				you need to restore the			
alarm times	Display the to	otal number of times this aları	m occurred	default sorting, you can			
				click "Restore Default"			
time sort	Set the inform	nation display mode and selec	ct whether the latest alarm i	s displayed before or after			
chronological	According to	the sequence of alarm time g	eneration, the display gene	rated first is displayed first,			
order	and the displ	ay generated later is displayed	d last, that is, the latest alar	rm information is displayed			
	at the end						
reverse	Contrary to t	he chronological order, the al	arm generated first is displ	ayed at the bottom, and the			
chronological	-	ted later is displayed at the to		-			
order	front of the a			1 2			

date time	Set the date and time format
format	
moving speed	The higher the speed number, the faster the scrolling speed

When use multiple languages is checked, "..." will be displayed in the lower right corner of the title description. Clicking it will jump to the multi language library setting interface to set multiple languages.

Select	Project	Title Title Description	Setting
~	No.	No.	· · · · ·
~	Trigger date	Trigger date	
~	Trigger time	Trigger time	
~	Alarm information	Alarm information	
~	Alarm times	Alarm times	

Display

ic Att Display Security Lo	Jeadon			
Outer frame color	~			
✓ Fill				
6530 F050 P	11			
Fill color	×			
Fill color				
	· ·	General	×	
Font settings] ♥ Size		v	

	outer frame		Set the outer frame color of the dynamic alarm bar
fill fill color Set the background color of the dynamic alarm bar		fill color	Set the background color of the dynamic alarm bar
	transparency		You can complete the setting by sliding the slider (the closer the slider is to the left, the
			lower the transparency percentage, and the more transparent the component)
	for	nt setting	You can set the color, size, and alignment of the font (you can also check autofit size, which
			means that dragging the mouse changes the size of the component, and the text size changes
			accordingly)

Security setting

ic Att Display	Security Location
Display contro)I
✓ Enable	
When	隐藏
Devic	本地设备 v Settin
Addre	PSB v 0
Enable	Sta ON V Indirect
User permissio	on
Hide this	component when the user has no permission scope
User per range	mission Permission1 v

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-5.Data processing

4-5-1. Data sampling

Click "Parts/Data Processing/Data Sampling" in the menu bar or click ^{Data sampling} in the toolbar to enter the data sampling setting interface, where you can add the data objects to be collected, as well as information such as object types, sampling conditions, and whether to store them. You can import/export them to a computer for use in trend charts and report displays.

		Data s	ampling		×
Sampling Group 0[1]:1	~	Name 1	New	Delete Edits	ampling group nam
Add Modify Insert De	elete Delete all Copy	Paste Import Export			
Contraction of the second s	No. Address		Cycle trigger address	Acquisition control	Clear address
Group 0:1 0	PSW0	Periodic	010		
					-
				Determine Cancel	Application

■ Sampling group

sampling group	Select the sampling group. To facilitate user management of data, we have set the
	classification of the group, and each group can add many collection methods
name	Set the name of the sampling group
new	Modify the name and click to add a sampling group
delete	After selecting a sampling group, click to delete the selected sampling group
edit sampling group	Batch management of established sampling group name
name	

Note: When creating a new sampling group for the first time, please enter a user-defined name in the "Name" field and click "New" to add a new sampling group. Otherwise, a message "Sampling Group Name cannot be blank" will be displayed.

Information

add	After selecting a sampling group, click Add to open the data sampling attribute setting
	box (see "Information Add" below for specific setting methods)
modify	Modify the selected sampling information
insert	Insert a new sampling information at the selected sampling information, optionally above
	or below

delete	Delete selected sampling information
delete all	Delete all sampling information for this group
copy	Copy selected sampling information
paste	Paste the copied information, and the copied information will be displayed on the last line
	of the current sampling group
import	Import excel file from your computer
export	Export all the sampling information edited in the software to the designated location on
	the computer as an Excel file

Add information

After clicking "Add"/"Modify", the window shown below will pop up, where you can edit the sampling information.

Data sampling	×
Basic AttributesChannel setting	
No. 1 Descri	^
Acquisition control	
Collection me Periodic acquisition Trigger acquisition Fixed mode Sampling 1 0.1 second V	
Register assignment	
Sampling continuous address of acquisition object Read address	
Devic 本地设备 v Settin Channel	
Addre psw v 0	
Data Word V Unsigned V type	
Save	
Storage location	
HMI O U disk Export Control	
File	
File namsimpleFile	
● Fixed file name ○ Date specify the file ○ Dynamically specify the file name	
Storage capacity	
80000 🗘 Coun 🗸 About0.20MB	
Mining full treatment mode • Loop cover() Stop when full collection	
Collection full notification	
Clear Data	
✓ Data retention days limit Retention 7	
Select Project Mayour	~
Calert Project Maraun	>
Determine Cancel Applica	ation
Determine Caller Applica	istori.

No.	The number of this sampling group is displayed and cannot be edited		
description	Set the description of the sampling group for use only as a note for project editing		
acquisition control	Acquisitic PSB0 Acquisitio OFF ~		

	After checking, set a co	bil address and start collecting data only when the coil meets the collection			
	conditions (can be set to	o ON/OFF)			
acquisition	select on or off				
condition	Acquisitio OFF				
	ON				
	on Trigger	n			
collection	Set the mode, cycle, tri	gger or fixed mode of data collection			
mode	periodic acquisition	Collect with a fixed cycle, and set the sampling time. The sampling units are			
		(0.1 seconds/second/minute)			
		Collection m Periodic acquisition Trigger acquisition Fixed mode			
Sumpling		Sampling 1 0.1 seconc V			
		Sumpling			
		Register assignment PSW0			
		Register control can be selected. After selecting the sampling unit, change the			
	trigger acquisition				
		Read add PSW0 Cond < V 0 Register assignment			
		Bit address trigger acquisition: After selecting a bit address, you can set the			
		condition to "ON ->OFF", "OFF ->ON" to take effect.			
O Word Shit		⊖ Word ● bit			
		No. 2012 Contraction of the Cont			
		ON->OFF			
		OFF->ON			
	fixed mode	Set a fixed time period for collection only			
	lixed mode				
		3.			
		Sampling frequency → 0.1 secc ∨ ✓ Register assignme pSW0			
		For example, if the time is from 8:00 to 12:00, the system will automatically			
		perform the acquisition from 8:00 to 12:00, with a minimum sampling period			
	trigger acquisition	condition to "ON ->OFF", "OFF ->ON" to take effect. Word • bit Read add PSB0 Cond ON->OFF • ON->OFF OFF->ON Set a fixed time period for collection only Collection m Periodic acquisition Trigger acquisition • Fixed mode Time from 16 + Ho33 + Minute16 + Hot34 + Minute Sampling frequency • 0.1 secc • Register assignme PSW0 For example, if the time is from 8:00 to 12:00, the system will automatically			

Sampling continuous address of acquisition object Address is not continuous, you can uncheck "sampling continuous address of address is not continuous, you can uncheck "sampling continuous address of acquisition object", Click "Channel" on the right to set the address in the channel, as shown in the following figure

-		Data sampling
Basic Attribute	Channel setting	
3 <u>0</u>		New Inser Dele Mov Mov
Channel	Address	Type Format word number Name Description
1	PSW0	Word • Unsigned • 1 Channel1
2	FSW0	Word Unsigned 1 Channel2
1	1.	
read	devic	
address	addres	
	data ty	
		channel data type, click "Channel Settings" to change it
	setting	
		you to set and use system registers and user-defined tags. You can click th
		address tag library or project tree - library - address tag library below to s
		the tags used (see 5-2 Address Tag Library for the use of address tag librar
		and user-defined tags)
		Address
		Device 本地设备 V Statio 0 n No.
		Address
		Address 0 System register
		数据类型 Word V Unsigned V
		Address [range: 0 - 9999]
		format
		Address Label
		Address Laber
		Determine Cancel Application
operation	new	add sampling channel
items	insert	Insert a new channel below the selected channel
	delete	delete the selected channel
	move up	
	move	Move the selected channel down
	down	
channel	channel	
setting	address	You can customize settings only if "Sampling continuous address of
		acquisition object" is not checked. If it is checked, the system wi
		automatically increment based on the first address and data type.
	type	Byte-8Bit, Word-16Bit, DWord- 32Bit, DDWord -64Bit
	format	BCD-BCD format, Hex format, Signed number, Unigned number, Floatin

			number					
		word	Based on t	he sel	ected data type	, the system will au	tomatio	cally increment and
		number	cannot be 1	nodifi	ed			
		description	n Custom description text					
storage	set the mod	le of data sto	rage					
	storage cap	pacity	Storage capacity 80000 Coun ✓ About0.20MB Set the total amount of collected data information stored. The selectable unit is "count" or "MB". Regardless of which unit is selected, the software will automatically convert it to another unit and display it later.					
	loop cover					fter reaching the se llected data to store	-	city, and the touch
	mining ful mode	ll treatment	When the a Mining fu	acquisi III treat cover(ction (e set storage capacit		
			collection Set a coil, and when the acquisition reaches the set capacity, set on notice the coil the coil					
			clear data	are m		the clearing method ed data will be clean "OFF ->ON")		
save	storage loc is HMI; WI Save Storage loc • HMI	ation. For ex hen PSW=3,	ample, if y	ou set		SB flash disk, or use W0, then when PSV sh drive	-	
	Storage cap 80000 Mining full Loop cc	e name O Date pacity Coun treatment mode over O Stop whe	About0.20	МВ	mically specify the	file name		
	Collecti Clear D Data re Save		Mode ON->OFF ~ it Retention 7 Day			_		
	Select	Proj	ect			Move up		
						Move down		
			ect data			Default		

	Storage location of sampling information during simulation:
	(1) Save to USB flash drive: Software directory Temp/Run/storage/udisk/sample
	(2) If you choose to save to the HMI: software directory Temp/Run/db/sample, the saved file in this
	saving method cannot be directly opened for viewing. To view, you need to export to a USB flash
	drive through the export control register, and then view the exported file in the path saved to the
	USB flash drive
export control	Set the register for HMI export control (if set to PSW0, three consecutive addresses with PSW0 as the
	first address control different states), and click "Control Address Information" to preview
	Control address information 本 命令:PSW0 1.Export sampling data to U disk 2:Export sampling data to U disk and clear the 进度:PSW1 The numerical value of 1~100 indicates the 结果:PSW2 0:Data being exporting 1:Export succeeded 2:导出设备不存在 3:U disk insufficient storage 4.路径文件名错误 5:导出文件关键
	1. This function only takes effect when the storage location is selected as HMI or specified as HMI
	using "Register Specified Storage Location".
	2. When inputting 1 or 2 to the command register, the database can be controlled to be exported to a
	USB flash drive, and the exported file format is xjdb. The xjdb to csv convert tool can be opened by
	double clicking on the software root directory \Tool\XJDbTool\XJDbTool.exe, which is set as the
	default opening method for xjdb. After opening, enter the path name of the csv, and click "Export" to
	convert the xjdb format file to a csv format file.
file name	Set the name of the stored file, with which the system will store data
fixed file	The stored file name is fixed, that is, the name set in the file name (the file name supports up to 200
name	characters)
date specify	The stored file name is named with a date, such as the file exported on May 29, 2021, with the file
the file	name 20210529
	Set the register address and the stand file will be remained often the contents of the register Wilson
dynamically specify the	Set the register address, and the stored file will be named after the contents of the register. When selecting a dynamically specified file name, you need to select a string type register such as character
file name	input and Chinese input. (File names support up to 200 characters)
storage	Stop saving or overwriting old records when the storage space is insufficient
capacity is	Stop saving of overwriting old records when the storage space is insumeent
not enough	
stop when full	When checked, stop saving data when the storage space is insufficient
collection	
loop cover	When checked, when the storage space is insufficient, it will continue to save and overwrite the old
	records
data retentive	The default time for storing files on the screen is 7 days. After that time, the files will be deleted. File

days limit	retention time can be set to a maximum of 1000 days
save content	Set the stored items and sorting. The saved content can be selected from serial number, date, time, and
	collected data. You can move the saved content up, down, and restore the default sorting operation.

Note: Whether you choose "Fixed File Name" or "Dynamically Specify File Name" for a saved file name, the following characters are not supported in the file name: $\langle / : * ? " <> | - #; $! @ & ().$

Channel setting

Set the data source of the current sampling group. When the address of the selected collection object is continuous, the address column cannot be edited, and the system automatically increments based on the data type of the previous row of data. The address column can only be edited if "sampling continuous address of acquisition object" is not checked.

				Dat	a s	ampling						
asic Attribute	Channel setti	ng										
								New	Inser	Dele	Mov	Mov
Channel	Address	Туре		Format		word number	Nan	ne	De	scriptio	n	771 6 4
1	PSW0	Word	+	Unsigned	•	1	Char	nnel1				
2	PSW1	Word	.*	Unsigned	٠	1	Char	nne <mark>l</mark> 2				
3	PSW2	Word		Unsigned	•	1	Char	nnel3				

4-5-2. Trend map

Display the data collected during data sampling in the form of a curve, and query the data within a certain time range.

1. Click free trend chart icon in the menu bar or click "Parts/Data Processing/Trend Chart" in the device bar in the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on "Trend Chart" or select "Trend Chart" and right-click to select "Properties" to set attributes.

		Trend chart co	nfiguration			
sic Attribute Display S	icale display Quer	y Security settin	Location			
Control ID TC0						^
Description						
Display mo Real time		У				
Data capac 100						
Display points per	10					
🔿 Time period displa						
Data source						
Samplin	✓ No.	~	Data			
		1.00	ull <mark>,</mark> Stop samplir			
Acquisition M0 (on sta Acquisition Cycle acqu Channel selection Select Channel	Address	ervatio SD card Data type	word number	Descriptio	n	
Acquisition Cycle acqu Channel selection			word		n	
Acquisition Cycle acqu Channel selection			word		n	
Acquisition Cycle acqu Channel selection Select Channel	Address	Data type	word		n	
Acquisition Cycle acqu Channel selection		Data type	word number		n	
Acquisition Cycle acqu Channel selection Select Channel	Address	Data type	word number	Descriptio	n	
Acquisition Cycle acqu Channel selection Select Channel Curve color	Address	Data type	word number	Descriptio	n	
Acquisition Cycle acqu Channel selection Select Channel Curve color Line width	Address	Data type	word number	Descriptio	n	

control ID	It is used for system management control, and cannot be operated by users
description	Can be used to comment on the purpose of this control
display mode	Select whether the data displayed in the trend chart is real-time or historical data
data capacity	Set the maximum number of points displayed in the trend graph (the maximum data capacity of a
	single channel is 5000)
display	Set the number of data points on the current display page of the trend chart (the maximum data
points per	capacity of a single channel is 5000). When the number of points per screen is set to be less than
screen	the maximum number of points, a button or scroll bar is displayed below the curve to click or
	scroll to view the curve that is not displayed on the current page
time period	Set the time displayed on the current display page of the trend chart. The unit can be customized,
display per	with a minimum unit of 0.1 seconds.
screen	

	Display mo Real time O History
	Data capac 100
	O Display points per
	● Time period displa 1 • 0.1 secc ∨
data source	Select the data group to display as a curve from the data sampling
	Data source
	Samplin v No. v Data
information	Display some collection control information for the selected data group and cannot be edited. If
	you need to edit it, you can click "Data" in the data source row to enter the data sampling section
	for editing
	Information Acquisition M0 (on state) Storage mc Collecting full, Stop samplin Clear acquis M0 1: ng
	Acquisition Cycle acquisition 1s Preservatio SD card
channel	Select the data channels to display from the sampling group, and each channel is displayed as a
selection	separate curve. Uncheck those that do not need to be displayed
	Channel selection
	Select Channel Address Data type word number Description
	Curve
	color curve style
	Line width
	Data
	Max value 0 Register assignment
	Min Desister reinwert
	value 0 Register assignment
curve color	Set the curve color of the selected channel
curve style	Select the curve style of the selected channel, including polylines, points, and dotted lines
line width	Set the line width of the selected channel
data	Set the curve display maximum and minimum values for the selected channel. You can set fixed
	data or select register assignments

Display

		Trend chart configuration
Basic Attribute Displa	/ Scale display	Query Security settin Location
Trend chart background	~	Scale area background
✓ Grid X-axis grid equal fraction	1	Thi ck
Y-axis grid equal fraction	1	ss St v
Zoom (%)	PSWO	For example, PSW0 represents the scaling percentage ratio, for example, PSW0
Page turnin	PSW0	

trend chart	Set the background color of	Set the background color of the trend chart					
background							
scale area	Set the background color of the scale area						
background							
grid		Set whether to display the grid					
X-axis grid	Set the number of grid divis	Set the number of grid divisions for the X axis					
equal fraction							
Y-axis grid	Set the number of grid divis	sions for the Y axis					
equal fraction							
grid style	Set the grid style, including	solid lines, dotted lines, point lines, and thick lines					
color	Set grid color						
	When selecting the histori	cal mode, clicking a point on the trend chart will display the current					
	value of the point, as shown	n below.					
Numerical							
display *		■ 日期 day 2022/05/12 67 ー 时间 s 13:13:12					
Display the	供給 2 0.00-100.00						
coordinates of	33						
the selected	0 -						
point		2/05/12 :13:14					
	show items	Set the items to display. Such as date, time, channel, etc					
	content description	Customizable display content					
	select	If checked, it can be displayed; if unchecked, it will not be displayed					
	background color	Set the background color of the information window					
	font color	Set the font color					
	data line color	When selecting a point, in order to visually display the point					
		information, the screen will automatically make an auxiliary line					
		perpendicular to the X axis for the selected point. This setting is used					
		to set the color of the auxiliary line					
zoom	Select whether to scale the	curve. After checking, set the register address to represent the scaling					
	ratio with the register value						
	Zoom (%) PSW0	For example, PSW0 represents the scaling percentage ratio, for example, PSWC					
	✓ Page turnin PSW0	and services in the second					
page turning							
page tarming	Set the register address to	dynamically control the page turning of the curve based on the register					

■ Scale display

		Trend chart configuration	n	
lasic Attribute Display	Scale display Query	Security settin Location		
Scale display X-scale				
Axis / scale colu	~			
Major scale equ	ę3 🚺	Main engravin ¹⁰		
Minor scale equ	11	Sub engraving ⁶		
✓ Use timescale				
Display date YY/	MM/DD v 🔽] Display tim HH:MM:SS	~	
Fo 微软雅黑	¥	General 🛩		
Siz 12	~			
Minor scale equ				
Axis / scale co	3	Main engravin ¹⁰	-	
		nur() Display percent	kazal	
Ú N	o display 🕘 Display i			
Integer digits	Decimal 0			
	Custom 🔿 Use chan	nel max min 🛛 🔿 Show all d	hannel ranges	
Scale range: O		Register control	2711	
Scale range:) C Max	value -	Register control		
Max	Ex.	Register control		
Max				
Max Min	vali	Register control		
Max Min Fo 微纹雅黑	valı	Register control		

X scale	axis/scale color	Set the display color for the X axis and scale			
	major scale	Set the number of segments for the X-axis major divisions			
	segment				
	main scale length	Set the display length of the major divisions			
	sub scale	When checked, the sub scale will be displayed on the control, where the number of			
	segment	sub scale segments is set			
	sub scale length	Set the display length of the sub scale			
use	time scale	When checked, it will be displayed in the control with a time scale			
dis	splay date	When checked, the date will be displayed on the time scale			
dis	splay time	When checked, the time will be displayed on the time scale			
	font	Set the font for scale display			
	size	Set the size of the scale display text			
Y scale	axis/scale color	Set the display color for the Y axis and scale			
	major scale	Set the number of segments for the Y-axis major divisions			
	segment				
	main scale length	Set the display length of the major divisions			

	sub scale	When checked, the sub scale will be displayed on the control, where the number of						
	segment	sub scale segments is set						
	sub scale length Set the display length of the sub scale							
S	cale style	Choose whether to display scale marks, which is the style of display. You can choose						
		to display numbers or percentages, or not to display them						
ir	nteger bit	After selecting the display flag, you can set the integer digits displayed as needed						
de	ecimal bit	Set the number of decimal places to display numbers as needed						
sc	ale range	Set the maximum and minimum values for scale display						
		(1) Use a custom range that can be set as a constant or specified through a register						
		(2) Use the maximum and minimum values in the channel						
		(3) Show all channel ranges						
	font	Set the font for scale display						
	size	Set the size of the scale display text						

- Query
- (1) Export

Trend chart configuration

Basic Attributes	Display	Scale display	Query	Security se	ttings	Location
Picture	PSB0	Export conditio ON-	>OFF ~	Export Format	PNG	~

Select Picture to use picture export function. Meets export conditions, export format is PNG.

2 Query

After checking Use the query function, you can use the query function to filter data based on conditions and

display it in the current trend graph.

There are three ways to query: query by date, query by time period, and query by channel. You can also use register control to query.

(1) Query by Date: Enter the date to query. After the query control bit is turned on, the filtered results will be automatically displayed.

		11	end chart	contigu	uration	1			
Basic Attribute Display	Scale display	Query	Security settin	Locatio	on				
Pictur PSB0	Export conditi ON-	->OFF Y	Export Format	G ∀					
Use the query fu	nction								
Query method									
Query method									
 Query method Query by date 	e 🔿 Que	ry by time	perio Pre	s channe	nel				
		ry by time	perio <mark>O P</mark> re	s channe	nel				
Query by date		ry by time	perio) Pre	s chann	nel				
 Query by dat Register con 		ry by time	perio) Pre	s channe	nel				
Query by dat Register con Query settings		ry by time	perio) Pres	s channe	nel				
Query by dat Register con Query settings	trol q <mark>u</mark> ery	ry by time	perio) Pre	ss channe	nel				

You can also select "register control query" to dynamically set the query address. As shown in the following

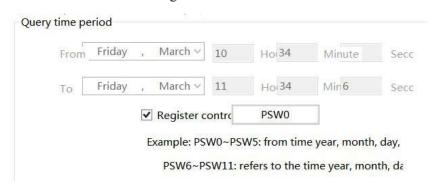
figure, if you set a header address, such as PSW0, the query address will occupy a total of 3 addresses from PSW0 to PSW2, where PSW0 represents the year, PSW1 represents the month, and PSW2 represents the day, all of which are single word unsigned numbers. For example, PSW=2021, PSW2=5, and PSW3=29, the data collection record information on May 29, 2021 will be queried.

Friday , N	1arch ∨	Register contro	PSW0	
For ex	ample: PS	N0: year (unsigned numl	per input, YYYY for	mat,
	PSW1: Mo	onth (unsigned number i	nput, mm format, f	for ex

(2) Query by time period: Enter the start time and end time to query. After the query trigger bit is turned on, the filtered results will be automatically displayed.

ate	۲	Query by t	ime <mark>p</mark> ei	rio() Pr	ess cl	nannel	
ntrol que	ery						
1							
PSBC)						
riod							
Friday	a	March ∨	10	Ho	34	Minute	Seco
Friday	3	March ∨	11	Но	34	Min 6	Seco
,	PSBC PSBC eriod Friday	ontrol query PSB0 eriod Friday ,	ontrol query PSB0 Priod Friday , March V	PSB0 Priod Friday , March V 10	ontrol query PSB0 Priod Friday , March V 10 Ho	PSB0 Priod Friday , March V 10 Ho 34	PSB0 Priod Friday , March Y 10 Ho 34 Minute

Similarly, you can also use register control. After setting the first address, 12 register addresses, including the first address, will be occupied. The first 6 addresses represent the year, month, day, hour, minute, and second of the start time, and the last 6 addresses represent the year, month, day, hour, minute, and second of the end time. The format is consistent with that manual setting.



(3) Query by channel: Select or dynamically specify the number of channels to query the records of corresponding channels.

Query by date		by time perio	Press channel
O Register contro	ol query		
Query settings			
Query control			
	PSB0		
Query channel			
Channel	~	Register c	antral

(4) Register control query: Determine the query method based on different register values. When the value is 0, query by date. When the register value is 1, query by time period. When the register value is 2, query by channel.

Query by date	🔿 Que	ery by time perio Press channel
Register control	PSW0	Register value 0: by date 1: by time period 2: by channel
uery settings		
Query control		
P	SBO	
Query register		
PS	NO	1

Security setting

	Trend chart configuration	×
Basic Attribute D	hisplay Scale display Query Security setting Location	
─ Display cont ✓ Enable		
When	隐藏	
Devi	本地设备 v Settin	
Addr	re psb v 0	
Enab	le Sta ON V Indirect	
- User permis	sion	
Cancel	permission after operation	
A prom	pt window pops up when the user has no permission range	
🗌 Hide th	is component when the user has no permission scope	
User po range	ermission Permission v	

Same to chapter 4-2-10 indicator key security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-5-3. XY line chart

By collecting data from two consecutive sets of registers on the site, one or more consecutive sets of coordinate points are formed, and graphs are drawn and displayed in the form of points, lines, or dotted lines, which is beneficial for the on-site engineer to analyze the accuracy of the data.

1. Click icon in the menu bar or click "Parts/Data Processing/XY Line Chart" in control window device bar, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or press ESC to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the "XY Line Chart" or select the "XY Line Chart", right-click, and select "Attributes" to set attributes.

	lay Security se Location	
Control ID X0		
Description		
• Periodic	🔿 Trigger type	
Sampling pe	Second V	
– Control settings –		
– Control settings	PSB0 Trigger co ON Y	
	PSB0 Trigger co ON ∨ PSB0 Trigger co Rising € ∨	

	cont	rol ID It is used for system management control and cannot be operated by users.									
	desci	ription	Can be used to comment on the purpose of this control.								
samj	pling	periodic	Set the sampling period and collect it regularly according to the cycle time. The cycle time								
mod	le		defaults to 1 second, and can be adjusted as needed (collection unit: 0.1								
			second/second/minute).								
		trigger	Set a bit register and select the rising or falling edge as the trigger condition. When the								
		type	address reaches the trigger condition, a piece of information is collected.								

		O Periodic Trigger type
		Trigger address Devic 本地设备 ✓ Settin Addre PSB ✓ 0 Indirect Indirect Indirect
	device	The device port that is currently communicating.
	address	Set the target coil number.
	setting	Click "Settings" to enter the address setting interface, where you can set the use of system registers and user-defined tags. You can click the address tag library or the project tree - library - address tag library below to set the used tags (see 5-2 Address Tag Library for the use of address tag library and user-defined tags).
		Address
		Device 本地设备 Statio Address PSB Lype User defined label Address 0 System register
		Address format [range : 0 - 9999] Address Label
		Determine Cancel Application
	indirect	Set the current address offset. The current coil address changes with the indirectly specified
	specify	register value, that is, Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3). Example: The current
		coil address is PSB0, if the indirectly specified address is PSW100; When the value of the
		PSW100 register is 0, the coil that controls this element remains PSB0; When the value of
		the PSW100 register is 1, the coil that controls this element is PSB1 (and so on).
control	suspend	Set a bit register and select the trigger condition to be ON or OFF. When the address
settings	control	reaches the trigger condition, acquisition will be suspended.
	clear	Set a bit register and select the rising or falling edge as the trigger condition. When the
	control	address reaches the trigger condition, the collected information will be cleared.
point	sampling	Set the maximum number of points for curve sampling (the maximum number of points is
setting	points	1024), which can be checked as register control. After selecting register control, the value in
		the register will prevail.

Data

				-	XY line c	har	to					
Basic	Attril Data	Display S	ecurity se Loc	ation	Carlos MANORAL DA	1921					14	
N	umber o 3											
	XY axis data	and a second sec	m the same	e dat	a area							
	Channel	X address	Data type		Data format		Y address	Data type		Data format		
•	1	PSW0	Word	~	Unsigned	~	PSW1	Word	~	Unsigned	*	
	2	PSW0	Word	~	Unsigned	~	PSW1	Word	~	Unsigned	~	
	3	PSW0	Word	~	Unsigned	~	PSW1	Word	~	Unsigned	~	
-c	hannel settin curve styl Line colc		✓ Occupi✓ Line w		PSW0-PSW1	.9	X0:F X1:F	PSW0 Y0 PSW2 Y1 PSW4 Y2	PSW PSW PSV	V3	ss cr	
	pper and low	er limits o	f range									
	X axis Jppe 10	0	Register cor	ntrol	Lowe		0	Register c	ontro	J.		
	Y axis				LOWL				onnic			
	Jppe 10	0	Register co	ntrol	Lowe		0	Register o	ontro	d		
	-											
	eference line Number o ⁰		*									
	Referenc		Curve									
number of channel	Set the n	umber o	of channe	els	(the max	im	um numl	ber of ch	nanı	nels is 16), a	nd each channel
												will increase or
	decrease			5			,					
XY axis data				fro	om the s	am	e data a	area, assu	ımi	ng the so	et a	ddress is n, the
										•		point 3 is (n+4,
same area	n+5)							,	ŗ			
	If X and	Y are no	t selecte	d fr	om the sa	am	e data are	ea, assum	ning	g that the	addr	ress set for the X
	axis is a a	and the a	ddress se	et fo	or the Y a	xis	is b, the	coordina	ites	of data p	oint	1 are (a, b), data
	point 2 is									1		
	X address				he X axis							
	Y address	-	-				an be set	when X	Υa	xis come	s fro	m the same data
			s not chee									
	data type				,	ماا	ection of	piect Yo	пс	an choose	e fro	om 8-bit, 16-bit,
			-	-	ata types.	011					• 110	
	data	-				he	collectio	on object	t. 🕫	and you	can	select decimal,
	format				ing point			·		•		acomiun,
channel setting	Each chai										d lin	e type.
upper and lower								., 1110 001			ə 1111	
apper and lower	Dispidy I		sullu I (аліð	autu 00J0							

limits of range	X axis	upper limit: Set the maximum value of X-axis data, which can be specified by	
		register.	
		lower limit: Set the minimum value of X-axis data, which can be specified by	
		register.	
	Y axis	upper limit: Set the maximum value of Y-axis data, which can be specified by	
		register.	
		lower limit: Set the minimum value of Y-axis data, which can be specified by	
		register.	
reference line	Select whether to set a reference curve, and set coordinate points and curve colors. The		
	coordinate points can be dynamically specified by the register.		

Display

color

	XY line chart
Basic Attril Data Display Security se Locatio	n
Line chart bac	Scale area bacl.y
Scale display	
✓ X-scale	
Scale color	
Main scale scale equal fraction	Sub scale scale equal fraction
Scale length 10	Scale length ¹⁰
Scale mark	
	mber 🔘 Display percentage
	Decimal D
Font Arial	~
Color 🔽	Size 12 v
✓ Y-axis scale	
Scale color	
Main scale	✓ Sub scale
scale equal ft ³	scale equal fraction
Scale length 10	Scale length 10
Scale mark	
🔿 No display 💿 Display nu	ımber 🔘 Display percentage
Integer di 5	Decimal D ²
Font Arial	~
Color 🗾	Size 12 V
background Set the background co	olor of the line chart.
color	
a background Set the background co	lor of the scale area

grid display		Set whether the grid is displayed.				
grid	X axis grid equal	Sets the number	r of grid divisions for the X axis.			
display	Yaxis grid equal	Sets the number of grid divisions for the Y axis.				
	line style	Set the line style, including solid line, dotted line, dot line, thick line, and so on.				
	line color	Set the grid cold	Dr.			
		Ī				
		Line chart bac Grid display				
		X-axis grid eq				
		Line style	Line color			
		1 10 10 10				
scale	X scale	Scale Color	Sets the display color for the X axis and scale.			
display		main scale	Set the X axis main scale segments			
		equal fraction	Set de sur la set a diserten de			
		main scale	Set the main scale display length			
		length	after checking, display sub scale on the control, set the sub scale			
		fraction	segments			
			Set the sub scale display length			
		length				
	scale mark		to display scale marks, which is the display style. You can choose to			
		display numbers, percentages, or not.				
		integer bit	After selecting the display flag, you can set the integer digits			
			displayed as needed.			
		decimal bit	Set the number of decimal places to display numbers as needed.			
		font	Set the font for the scale display.			
		size	Set the size of the scale display text.			
		color	Set the color of the scale display text.			
	Y scale	scale color	Set the display color for the Y axis and scale.			
			Set the Y axis main scale segments			
		equal fraction				
			Set the main scale display length			
		length				
		-	after checking, display sub scale on the control, set the sub scale			
		fraction	segments			
			Set the sub scale display length			
		length				

Security setting

				XY line o	hart		
asic Attril	Data	Display	Security se Loca	tion			
— Display ☑ En Whe		隐藏	v				
	Devic Addre Enable	本地设备 PSB Sta ON	<u>م</u> ۲	0 Indirect	v Sett	tin	
	ermissio de this o		ent when the u	user has no pe	rmission so	cope	
	ser pern inge	nission	Permission1		*		

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-5-4. XY trend chart

1. Click the XY trend chart display icon in the control window device bar or "Parts/Data Processing/XY Trend Chart" in the menu, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or click ESC to cancel the placement. Modify the length and width of the border through boundary points.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on the "XY Trend Chart" or select the "XY Trend Chart", right-click, and select "Attributes" to set attributes.

趋势图					?	
基本属性	数据	显示	安全设置	位置		
控件ID	XYTO					
描述						
采集方式	.]					
 周期采 	興 采样周期 興	1 🤤	0.1秒 ~			
点数设置						
点数设置 采样点透	ý 10	•	使用寄存器			
	• • • • • • • • • • •	e 🗆	使用寄存器			
采样点数	方式	local	使用寄存器 重新取样 C)循环覆盖		
采样点数	方式	local)循环覆盖		
采样点遭 采集处理 ④	方式	local)循环覆盖		
采样点数 采集处理 ④ 范围上下限 X轴	方式	local)循环覆盖		
采样点题 采集处理 ④ 范围上下限 X抽 上限 [1	~ 重方式)停止取样	local	里新取样 C			
采样点题 采集处理 ④ 范围上下限 X轴 上限 []	~ 豊方式)停止取样 (00	local	E新取样 C			
采样点题 采集处理 ④ 范围上下限 X轴 上限 [1 	~ 豊方式)停止取样 (00	local	E新取样 C			

СС	It is used for system management control, and cannot be operated by users		
de	scription	Can be used to comment on the purpose of this control	
	device address	 ○ 周期采集 ● 触发采集 ● 位 ○ 字 设 备 本地设备 ジ 设置 地 地 PSB ○ 0 ○ 间接指定 启用条件 上升沿 ✓ Device port currently communicating Set target coil number 	
	setting	Click "Settings" to enter the address setting interface. This interface allows you to set and use system registers and user-defined tags. You can click the address tag library or project tree - library - address tag library below to set the tags used (see 5-2 Address Tag Library for the use of address tag library and user-defined tags)	

		地址 ? × 设备 本地设备 站号 0 地址类型 PSB □ 用户自定义标签 地址 0 □ 系统寄存器 地址格式 DDDD [范围: 0 - 9999] □ 地址标签库 適定 取消 应用
	indirect specify	Set the current address offset. The current coil address changes with the indirectly specified register value, that is, $Dx [Dy]=D [x+Dy value] (x, y=0, 1, 2, 3)$. Example: The current coil address is PSB0, if the indirectly specified address is PSW100; When
		the value of the PSW100 register is 0, the coil that controls this element remains PSB0; When the value of the PSW100 register is 1, the coil that controls this element is PSB1 (and so on)
point setting	sampling points	Set the maximum number of points for curve sampling, which can be checked as register control. After selecting register control, the value in the register will prevail
	Acquisition and processing method	Set the collection status when the sampling points are fully collected, stop sampling, clear the data, and resample or cycle over
	Upper and lower limits of range	Set the upper and lower limits of the XY axis, which can be specified through registers

Data

1 PSW0 Word Unsigned PSW0 Word Vinsigned	通道数 1 ● 新增通道 删除通道 通道 X抽地址 数据类型 数据模式 X抽地址 数据类型 数据格式 1 PSW0 Word Unsigned * PSW0 Word * 6 * * 6 * 6 * 6 6 % % % % % %	通道数 1 ● 新增通道 删除通道 通道 X抽地址 数据类型 数据格式 Y抽地址 数据类型 数据格式 数据模型 数据格式 Y抽地址 数据类型 数据格式 1 PSW0 Word • 1 PSW0 Word • Unsigned * PSW0 Word • 6 · · · · · · · 6 · · · · · · 6 · · · · · 6 · · · · · 6 · · · · · 6 · · · · · 6 · · · · · 6 · · · · ·	/趋势图							?)
通道 X轴地址 数据类型 数据格式 Y轴地址 数据类型 数据格式 1 PSW0 Word Unsigned PSW0 Word Unsigned は PSW0 Word Unsigned PSW0 Word Unsigned は ● ● ● PSW0 Word ● Unsigned は ● ● ● ● ● ● ● ● は ● <t< th=""><th>通道 X轴地址 数据接型 数据格式 Y抽地址 数据接型 数据格式 1 PSW0 Word Unsigned PSW0 Word Unsigned 曲线样式 </th><th>通道 X轴地址 数据类型 数据格式 Y抽地址 数据类型 数据格式 1 PSW0 Word Unsigned PSW0 Word Unsigned (PSW0 Word Unsigned (PSW0 Word Unsigned (PSW0 Word Unsigned ((((((((((</th></t<> <th>基本属</th> <th>對生</th> <th>数据</th> <th></th> <th>显示</th> <th>安全设置</th> <th>位置</th> <th></th> <th></th>	通道 X轴地址 数据接型 数据格式 Y抽地址 数据接型 数据格式 1 PSW0 Word Unsigned PSW0 Word Unsigned 曲线样式	通道 X轴地址 数据类型 数据格式 Y抽地址 数据类型 数据格式 1 PSW0 Word Unsigned PSW0 Word Unsigned (PSW0 Word Unsigned (PSW0 Word Unsigned (PSW0 Word Unsigned ((((((((((基本属	對生	数据		显示	安全设置	位置		
1 PSW0 Word Unsigned PSW0 Word Unsigned 曲线样式	1 PSW0 Word Unsigned PSW0 Word Unsigned 曲线样式	1 PSW0 Word Unsigned PSW0 Word Unsigned 曲线样式	通	道数 1		-	新增通道	删除通道			
曲线样式 ////////////////////////////////////	曲线样式 ////////////////////////////////////	由线样式 ////////////////////////////////////	通道	X轴地	址 数据	类型	数据格式	Y轴地址	数据类型	数据	格式
曲线样式 総条样式 相頌 酸色 参考线 2 ・ 新増 一 新増 一 一 一 一 一 一 一 一 一	曲线祥式 続条样式 租畑 颜色 参考线 2	曲线样式 総条样式 相畑 酸色 参考线 2 ・ 新増 制除 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	1	PSW	10 Wor	d - 1	Insigned 🔫	PSWO	Word -	Unsigr	ed
参考线 2 新增 删除 序号 曲线模式 坐标点 1 近後 折後	参考线 2 新增 删除 序号 曲线模式 坐标点 1 近後 折後	参考线 2 新增 删除 序号 曲线模式 坐标点 1 近後 折後	线条				~	样式 ——		_ >	
序号 曲线酸色 曲线模式 坐标点 1 折线 •	序号 曲线酸色 曲线模式 坐标点 1 折线 •	序号 曲线酸色 曲线模式 坐标点 1 近後 ・					× ###	ALIFA	1		
1 折线 *	1 折线 •	1 折线 •			曲线额色	12.1	-	ALTER T	사동물		
2 折线 •	2 折线 7	2 新线 •						•	±10ms		
			-				拆线	•			
			2								
			2								

channel numbers	Each channel corresponds to a curve. You can edit the channel by clicking Add Channel and
	Delete Channel
X address	Set the data type and format of the X-axis address
Y address	Set the data type and format of the Y-axis address
data type	Set the data type of the collection object. You can select 8-bit, 16-bit, 32-bit, or 64-bit data
	types
data format	Set the data format of the collection object, and you can select decimal, hexadecimal, floating
	point, and unsigned numbers
curve style	After selecting a channel, you can set the display style of the curve, the thickness, style, and
	color of the curve line
reference line	Click on the add/delete button to add/delete reference lines. The coordinate value of the
	reference line cannot be a decimal
description	User defined description content
curve color	Set the color of the reference line
curve mode	Two display modes for lines or points
Coordinate point	Set the coordinate points of the reference line

Display

基本属性	数据	显示	安全设置	位置	
背景颜色					
趋势图背景色	1	~	刻度区背景色	£ [~
一栅格显示					
X轴栅格等分	数 5	-	Y轴栅格等分	数 5	\$
粗细 —		- ~	样式 —		- ~
颜色 📕					
X轴刻度					
刻度颜色		~			
主刻度			🗹 副刻度 —	Del a	
轴等分数	5	-	轴等分数	1	-
刻度长度	10	*	刻度长度	5	
刻度标记					
〇 不显示	۲	显示数字	○ 显示百分	计比	
整数位	4	\$	小数位	0	-
字体	微软雅黑		~	常规	~
颜色		~	大小	12	~
Y轴刻度					
刻度颜色		~			
主刻度			🗹 副刻度		-
轴等分数	5	-	轴等分数	1	۲
刻度长度	10	-	刻度长度	5	\$
刻度标记					
〇 不显示	۲	显示数字	○ 显示百分	壯	
整数位	4	* *	小数位	0	
字体	微软雅黑		~	常规	~
颜色		~	大小	12	~

trend o	chart background	Set the background	l color of the trend chart			
	color					
scale	area background	Set the background color of the scale area				
	color					
Ę	grid display	Set whether to disp	olay a grid			
grid	X-axis grid	Set the number of g	grid divisions on the X-axis			
display	equifraction					
	Y-axis grid	Set the number of g	grid divisions on the Y-axis			
	equifraction					
	thickness	Set the thickness of	f grid lines			
	style	Set the style of grid lines, including solid lines, dashed lines, dotted lines, thick lines,				
		etc				
	color	Set the color of gri	d lines			
scale	X/Y axis scale	scale color	Set the display color of the X/Y axis and scale			
display		main scale	Set X/Y axis main scale segments			
		equifraction				
		main scale length	Set main scale display length			
		sub scale	After checking, display sub scale on the control, set the sub scale			
		equifraction	segments			
		sub scale length	Set sub scale display length			
	scale mark	Choose whether to	o display the scale mark, which is the displayed style. You can			
		choose to display n	numbers, percentages, or not			

	integer bit	After selecting the display flag, you can set the number of integer
		digits displayed as needed
	decimal bit	Set the decimal places for displaying numbers as needed
	font	Set the font for scale display
	size	Set the size of the scale display text
	color	Set the color of the scale display text
Y scale	scale color	Set the Y axis scale color
	main scale	Set the Y axis scale segments
	equifraction	
	main scale length	Set the main scale display length
	sub scale	After checking, display sub scale on the control, set the sub scale
	equifraction	segments
	sub scale length	Set sub scale display length

Security setting

基本属性	数据	显示	安全设置	位置	
显示控制					
2 后用短证					
验证失败	(时 隐藏	~			
设	备 本地设备			~	设置
地	址 PSB		~ 0	0	
启用状	态 ON	~] 间接指定	
用户权限					
🗌 当用户无	权限范围时,	急藏该元件			
所需用户	- 权限范围 无	6-168 E.S 27 E.S 21	~		

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-5-5. Report form

Display the records stored in data sampling in a table format, allowing for querying data within a certain time range.

1. Click the icon in the control window, or click Parts/Data Processing/Report form in the menu, move the cursor to the screen, click the left mouse button to place, click the right mouse button or use the ESC key to cancel the placement. Modify the length and width of the border through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on "Report form" or select "Report form" and right-click to select "attributes" for attribute settings.

Basic attributes

					Report f	orm			
Basic Attributes	Display	Арре	earance	Query	Security set	ttings Lo	cation		
Control ID	RFO								
Descriptio	n								
beschpere						-			
Sampling (iroup 0	*	No.	0		~	Data	1	
list selecti									
list selection	211	122					-		
Selec Ch	aı Address	Data type	Data format	Integer digits	Decimal digits	Encoding	g word number	Alignmer	Display color
✓ 1	PSW0	Word	Unsign	Concerning of the second se	0	/	Indifiabel	Center	COIOT
2	PSW1	Word	Unsign	and the second se	0	1	1	Center	
✓ 3	PSW2	Word	Unsign	4	0	1	1	Center	
Channel s Integer o	-	•	Decimal d ⁰			□ I	eading 0		
Integer of	-		Decimal d Color				eading 0		
Integer of Alignme	li¢ ⁴						eading 0		
Integer of Alignme Display	liç ⁴ nt Center		Color				eading 0		
Integer of Alignme Display	lic4 ntCenter serial num	ber	Color				eading 0		
Integer of Alignme Display Number Time	lic4 ntCenter serial num	ber	Color	lor			eading 0		
Integer of Alignme Display Numbe Time Time Displa	liç4 nt Center serial num r of digits	ber IM/DD	Color	llor e			eading 0		
Integer of Alignme Display Numbe Time Time Displa Displa Data capac	liç4 nt Center serial num r of digits y date Y/M y tim HH:N ity	im/DD	 Color Co 	lor	color		eading 0		
Integer of Alignme Display Number Time Time Displa	liç4 nt Center serial num r of digits y date Y/M y tim HH:N ity	ber IM/DD	Color	lor	.olor		eading 0		
Integer of Alignme Display Numbe Time Time Displa Displa Data capac	lic4 nt Center serial num r of digits y date Y/M y tim HH:N ity s 100	IM/DD MM:SS	Color Co	v c	color		eading 0	te	
Integer of Alignme Display Numbe Time Displa Displa Data capac Max line	liç4 nt Center serial num r of digits y date Y/M y tim HH:N ity s 100 Used for	ber IM/DD VM:SS r syster	Color Co	v c v c v c v c	color	user car	■ ✓ ■ ✓ nnot operation	te	

description	Can be used to annotate the purpose of this control
sampling group	Select the data to be displayed from the data sampling and display it by group. If you
	need to modify the sampling data, you can click on "Data" on the right to enter the data
	sampling page for modification.
list selection	Select the channels that need to be displayed from the sampling group. The default is to
	select all. If there are any channels that do not need to be displayed, you can uncheck
	them. Each channel occupies one column of data display.
channel settings	Set the integer and decimal places displayed for each channel, whether to lead with 0,
	alignment, and text color.
display serial number	Choose whether to display the sequence number column. If you choose to display it, the
	automatically incremented sequence number will be displayed in the first column of the
	table.
number of digits	Set the number of digits displayed in the sequence number column, with a default of 3
	digits.
color	Set the color for displaying text in the sequence number column.
time	Choose whether to display the time column.

dis	play date	Set the date display format.
color Set the color of the date display text.		Set the color of the date display text.
dis	play time	Set the time display format.
	color	Set the color of the time display text.
data	max lines	Set the maximum number of rows displayed in the table (up to 5000 rows).
capacity	lines per page	Set the number of data rows on the current display page of the table. When the collected
		rows exceed the set number of rows per screen, there is a moving bar below the trend
		chart to control the page turning of the trend chart.

Display

asic Attributes Display	Appearance	Query Security settin	gs Location	
Display part Title	h in the second s			
Text O Mul	tiling			
Fo 微软雅照	~	General V		
加大市人名库尔莱	*	General 🗸		
Co V	Size 12	~		
Ali Middle_Center V		Row H15	~	
initial _ center		NOW I <u>1</u>		
display list				
		and the second se		
Show column head	Whether in multili	ind Auto column wic	Ith	
 Show column head Show Items 		ind Auto column wic	Ith Column spacing	
		· · · · · · · · · · · · · · · · · · ·		Move up
Show Items	Title b	· · · · · · · · · · · · · · · · · · ·	Column spacing	Move up
Show Items No.	Title b No.	· · · · · · · · · · · · · · · · · · ·	Column spacing 59	Move up
Show Items No. Time	Title b No Time	ar description	Column spacing 59 58	Move up
Show Items No. Time Date	Title b No. Time Date	ar description	Column spacing 59 58 59	Move up Move
Show Items No. Time Date Channel1	Title b No. Time Date Channe	ar description	Column spacing 59 58 59 59 58	
Show Items No. Time Date Channel1 Channel2	Title b No. Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	
No. Time Date Channel1 Channel2	Title b No. Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	
Show Items No. Time Date Channel1 Channel2	Title b No. Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	
Show Items No. Time Date Channel1 Channel2	Title b No. Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	Move
Show Items No. Time Date Channel1 Channel2 Channel3	Title b No. Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	Move
Show Items No. Time Date Channel1 Channel2 Channel3 Title bar font	Title b No Time Date Channe Channe	el1 el2 el3	Column spacing 59 58 59 58 58 58	Move
Show Items No. Time Date Channel1 Channel2 Channel3	Title b No. Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	Move
Show Items No. Time Date Channel1 Channel2 Channel3 Title bar font Fo 微软雅黑	Title b No Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	Move
Show Items No. Time Date Channel1 Channel2 Channel3 Title bar font Fo 微软雅黑	Title b No Time Date Channe Channe	ar description	Column spacing 59 58 59 58 58 58	Move
Show Items No. Time Date Channel1 Channel2 Channel3 Title bar font Fo 微软推黑 Co	V Size	ar description	Column spacing 59 58 59 58 58 58 58	Move

dis	play part title	Set the title of the control is displayed in the first row of the table or can be set to
		multiple languages (refer to 5-1 for details of multiple languages).
	font	Set the font for component titles.
	size	Set the size of the component title text.
	color	Set the color of component title text.
display	show column head	After checking, the title of each column can be displayed.
list	whether in	When checked, multiple languages will be used for the title line.
	multiling	
	auto column width	After checking, the table will automatically adjust the column width based on the
		content of each column.

ti	tle bar font	Set the font, size, and color of the title bar.
	list font	Set the font, size, and color of text in the list except for the title.
list	chronological	According to the order of collection time, the first collected information is
sequence	order	displayed below the table, and the later collected information is displayed above
		the table, that is, the latest collection information is displayed at the bottom.
	Time reversal	According to the reverse order of collection time, the first collected information is
		displayed on the top of the table, and the second collected information is displayed
		below the table, that is, the latest collection information is displayed at the top.

■ Appearance

						Report form		
	Ва	sic Attributes	Display	Appearance	Query	Security settings	Location	
		Appearance 🔿 Use Libra						
			e appearan ound color er frame		Title descri	ption	v	
		Line style		~ ~	Line color		v	
		Grid ✔ Row	' separator	Column s	separator			
		Line style		~ ~	Line color		¥	
use	e library style	Select a	table sty	le from the	gallery.			
sty	yle selection	Click to	select th	e desired s	tyle appea	rance from th	e gallery.	
1	style color	Modify	the appe	arance colo	or.			
custor	nize appearance	Set you	r own ap	pearance st	yle.			
able	background colo	r Set the	overall b	ackground	color of th	e table.		
	title background color	Set the	backgrou	nd color of	the title ro	OW.		
	outer frame	After ch	ecking, o	display the	peripheral	border.		
	line style	Set the	form of b	ox and line	e, you can	choose lines,	dotted lines	s, dashed lines, e
	line color	Set the	color of t	he border l	ines.			
	line width	Set the	width of	the line.				
grid	grid	Set the	display s	tyle of the g	grid.			
	row separator	When c	hecked, a	a horizontal	border wi	ll be displaye	ed.	
	column separato	r When c	hecked, a	a vertical bo	order will	be displayed.		

	line style	Set the form	of box and line	e, you can choo	se lines, dotted li	nes, dashed lines,	etc.
	line color	Set the color	of the border l	ines.			
	line width	Set the widtl	n of the line.				
■ 〔1〕	Query Export						
	port form						×
E	Basic Attributes	Display	Appearance	Query	Security settings	Location	
	Picture PSB	0 Expor	t ON->OFF	~ Export	PNG ~		
2	Query				Report form		
	Basic Attribu		Appearance Export ON->0		Security settings L PNG ∽	ocation	
	✓ Use th Query m	e query fun <mark>cti</mark> nethod	on				
		iery by date aister control	2.54	by time period			
	Query s		ducit				
	Que	ry control	PSBO				
	Quer	y date Tuesday	, April V	Register	control		

After checking, you can use the query function to filter data based on conditions and display it in a table. There are two ways to query: by date, by time period, or by register control.

(1) Query by Date: Enter the date you want to query, and after the query control bit is connected, the filtered results will be automatically displayed.

You can also choose "register control" to dynamically set the query address. As shown in the following figure, setting a first address, such as PSW0, will occupy a total of three addresses from PSW0 to PSW2. PSW0 represents year, PSW1 represents month, and PSW2 represents day, all of which are single word unsigned numbers. For example, PSW=2021, PSW2=5, and PSW3=29, the data collection record information on May 29, 2021 will be queried.

Query	T		104 A 104
	Tuesday , April ∨	Register control	PSW0
	PSW0:年(无符	号数方式输入, YYYY格式, 例	收12004)
		号数方式输入,YYYY格式,例	
			啦[2004) I number format, MM for

(2) Query by time period: Enter the start and end times to query, and after the query trigger bit is connected, the filtered results will be automatically displayed.

Basic Attributes	Display	Appearance	e Qu	ery S	ecurity settings	Location
✓ Pictur	PSB0 Ex	port ON-:	off γ	Export	PNG V	
✓ Use the c	uery functior	1				
Query met	hod					
	y by date	Quer	y by time	period		
O Reais	ter control a	uerv				
Query setti	ngs					
	control					
Query	Control		1.11			
Query	PS	BO	-2.5			
2		BO				
Query ti	PS	B0 April 🗸	15	Hot 38	Minute	Second

Similarly, register control can also be used. After setting the first address, 12 register addresses, including the first address, will be occupied. The first 6 addresses represent the year, month, day, hour, minute, and second of the start time, and the last 6 addresses represent the year, month, day, hour, minute, and second of the end time. The format is consistent with manual settings.

rom	Tuesday	£	April 🗸	15	Но	38	Minute	Second
0	Tuesday	<i>i</i> c	April 🗸	14	Но	18	Min1	Second
			✓ Regi	ister contr	c	PSV	VO	

PSW6 ~ PSW11 Represent end time Year/Month,

(3) Register controlled query method: Determine the query method based on different register values. When the value is 0, query by date; when the register value is 1, query by time period.

Basic Attributes	Display	Appearance	Query	Security settings	Location	
	10 A				Loodion	
✓ Pictur	PSB0 Exp	ON->OF	F v Export	PNG V		
✓ Use the qu	ery function					
Query metho	od					
	by date	O Ouerv by	time period			
	C.	,				
0	er control au	er PSW0	Register v	alue 0: by date	space 1: by	time period
(Regist	er control qu					ante berioù
Query settin						and benod
	gs					
Query settin	gs	:0				
Query settin	gs ontrol PSB	0				
Query settin	gs ontrol PSB					

Security setting

Basic Attributes	Display	Appearance	Query	Security settings	Location
Display cor C Enable When					
Dev Ado		¥ ✓	0	✓ Settin	
Ena	ble Sta ON	•	Indirect		
User permi		nent when the u	ser has no j	permission scope	
User range	permission	Permission1		¥	

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-5-6. Pie chart

Proportion of data displayed in block format

Example: If the first address is a and the number is set to n, then the addresses displayed for each section are a, a+1, a+2... a+(n-1). The proportion of each sector is the current sector's value/the sum of the values of each sector.

1. Click the "Parts/Data Processing/Pie Chart" in menu bar or the " pie chart icon in the device bar of the

control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button or use the ESC key to cancel the placement. Modify the length and width of the border through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on the "pie chart" or select the "pie chart" and right-click to select "attributes" for attribute settings.

Basic attributes

Con	trol ID	PC0				
CON		PCU				
Des	cription					
First da	ata addre	SS		14110		
Devic	本地设备	ŕ		~	Settin	
	100000000	~	0	1		
Addre	PSW	*	U			
	Defension for the second		0	~	Settin	

control ID	Used for system management controls, user cannot operate
description	Can be used to annotate the purpose of this control
first data address	Set the first address for displaying section data
device	The device port currently communicating with
address	Set target register number
data type	Byte-8Bit; Word-16Bit; DWord-32Bit; DDWord-64Bit; BCD format; Hex; Signed
	number; Unigned number; Floating number
setting	Click "Settings" to enter the address setting interface. This interface allows you to set the
	use of system registers and user-defined labels. You can click on the address label library
	or the project tree - library - address label library below to set the labels used (refer to 5-2
	Address Label Library for the use of address label library and user-defined labels)

Ī					Address		×	
		Device	本地设备		nacionale de la companya de la compa	✓ Statio 0 n No.		
		Address type	PSW		~	User defined	label	
		Address	0]		System regis	ter	
		数据类型	Word ~	Unsigned	~			
		Address format	[range : 0 - 99	99]				
						Address Labe	1	
					Determine	Cancel Applica	tion	
Ī	indirect specify	Set the c	urrent add	ress offse	t, where the cu	urrent register a	address chang	ses with the
		indirectly	specified r	egister va	lue, i.e. Dx[Dy]	=D[x+Dy nume	rical value] (x	x, y=0, 1, 2,
		3). Exar	nple: The c	urrent regi	ister address is F	SW0, if the ind	irectly specific	ed address is
		PSW100;	When the	value of	the PSW100 re	gister is 0, the	register that	controls this
		componer	t remains I	PSW0; Wh	nen the value of	the PSW100 reg	gister is 1, the	register that
		controls th	nis compon	ent is PSW	/1 (and so on)			
I	data number	Set the nu	mber of blo	ocks (conse	ecutive addresse	s after the first a	ddress)	

Display

	Pie Chart	
asicAttri Display Securitys Locati	on	
4 2	Direction Clockwist	e 🔿 Anti-clo
4 2	Start angle	0
3	End angle	360
circle center radius Interior co Channe 通道1 v	0 🕃	am [V
Font Colo	Backgro	un v
Border Settings Border col	×	
	×	
Border col	isplay number	 Display percentage
Border cole Sign O No display		○ Display percentage

direction Set the display direction of the address in the section, clockwise or counterclockwise

clo	ckwise	Arrange the display in the order of clock rotation
counte	rclockwise	Display in reverse order of clock rotation
sta	rt angle	Set the starting angle for the pie chart display, with a default of 0 degrees and a clock
		direction of 12 o'clock (0 o'clock)
ene	d angle	Set the ending angle for the pie chart display, default to 360 degrees, clock 12 o'clock (0
		o'clock) direction, default to full circle display
circle	circle	Set center size
center	center	
	radius	Set the radius of the circle, which can be set through the scroll bar or by entering a number
	interior	Set the display color inside the center of the circle
	color	
	outer frame	Set the display color of the center outline
	color	
channel	channel	Select each channel and set the font and background color for each channel
	font color	Set the font color of the selected channel
	background	Set the background color of the selected channel
	color	
border	border	Set the color of the pie chart border
settings	color	
sign	sign	Set the data style displayed on the section, which can be displayed as a percentage,
		numerical value, or not displayed
	decimal	Set the decimal places for displaying numbers or percentages, which cannot be set when the
		marker is selected not to be displayed
	font	Set the displayed data font, which cannot be set when the tag is selected not to be displayed
	size	Set the text size for displaying data

Security setting

ic Attril Display	Security se Location
Display contro	
When	隠藏・
Devic	本地设备 v Settin
Addre	PSB V 0
Enable	Sta ON V Indirect
User permissio	on
Hide this	component when the user has no permission scope
User per range	mission Permission1 Y

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-5-7. Data table

1. Click the " " table icon in the control window or Parts/Data Processing/Data Tables in the menu, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or use the ESC key to cancel the placement. Modify the length and width of the border through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components, or double-click the drawn "Data Table" or select "Data Table" and right-click to select "attributes" for attribute settings.

Basic attributes

		y Appearan					
Contro	D ID	TB0					
Descri	ption						
✓ Use Data ad		tive addresses	s				
Devic	本地设备	-		✓ Set	tin		
Addre		~	0				
Data	Word N	Vunsignec V	:t				
Data co		1.00					
Titles	in	Edit a	all		Add	Delet	e
	tle	Data type	Data	Number	ditable Integer	Decimal	ncodi
Tit	ue						
Ti							

control ID	Used for system management controls, user cannot operate
description	Can be used to annotate the purpose of this control
use consecutive	When checked, the address order will be automatically calculated based on the first
addresses	address (please refer to the notes below for the use of consecutive addresses without
	checking)
data address	Set the first address of the data (only appears when continuous addresses are checked)
data content	Set the data title, data type, and data format to be displayed in the table
add/delete	add or delete the data
edit all	After checking, all the data items to be edited can be checked with one click, and the data
	can be modified in the data table
titles in	When checked, the title can be in multiple languages. After checking, the title name of
multi-language	each column can be set to display in multiple languages. Click """ to enter the
	multilingual settings (refer to 5-1 label multilingual for specific usage)

Title	-					Add	4	Dele	te
	Data typ	е	Data		Number	ditable	Integer	Decimal	incodi
	Word	•	Unsig		1	~	4	0	-
	Word	•	Unsig	•	1	~	4	0	<u> </u>
	Word	•	Unsig		1	~	4	0	-
			•	gits	s, decima	l place	s, leadin	ig 0, and	colur
	width of the data co	After selection, you can set t width of the data column for th	After selection, you can set the i width of the data column for the da	Word • Unsig Word • Unsig After selection, you can set the integer di width of the data column for the data	Word • Unsig • Word • Unsig • After selection, you can set the integer digits width of the data column for the data	Word • Unsiq • 1 Word • Unsiq • 1 After selection, you can set the integer digits, decimal width of the data column for the data • •	Word Unsiq 1 Image: Constraint of the selection of the data column for the data After selection, you can set the integer digits, decimal place width of the data column for the data	Word Unsiq 1 Image: A gradient of the data Word Unsiq 1 Image: A gradient of the data After selection, you can set the integer digits, decimal places, leading width of the data column for the data	Word Vord Unsiq 1 ✓ 4 0 Word Unsiq 1 ✓ 4 0 After selection, you can set the integer digits, decimal places, leading 0, and



(1) When the title is checked to display multiple languages, "

description. Clicking on it will lead to the multi language library setting interface for setting multiple languages.

 Titles in 	✓ Ed	lit all				Add	ł	Dele	te
Title 🔰	Data typ	e	Data		Number	ditable	Integer	Decimal	incodi
	Word		Unsig	•	1	~		0	
	Word	•	Unsig	٠	1	~	4	0	
	Word	•	Unsig	•	1	~	4	0	-

(2) When continuous addresses are not used, the display is shown in the following figure:

	onsecutive ad	drassas	
	insecutive au	uresses	
Data capad	ity		
1. Start 1.			

The way to set data is as follows:

(1) Place the mouse over the table, and when the mouse changes from an arrow to a hand shape, click on a cell in the table to set the address

ewo.		Title	
序号	静态列		
1			
2			
3		dho	
4			
5			

2 Set the address

Fill type: address monitoring, monitoring numerical values and characters.

自元格设置		? ×	单元格设置 ?	×
埴充类型	地址监控		填充类型 地址监控 ~	
地址类型	数值 ~		地址类型 字符 ~	
设备	本地设备	∨ 设置	设 备 本地设备 く 设置	
地址	PSW 🗸 0 0		地址 PSW ~ 0 0	
数据类型数据类型	Word v Unsigned v 目前接指定	1	寄存器数 1 目定义数据类型 数据类型	
整数位数		前导 0 河编辑	编码方式 UTF_8 🗸 🗌 可编辑	
	确	定 取消	确定 取	消

Fill type: text monitoring

戶元格设置		?	Х
埴充类型	文本 ~		
● 文本	○ 多语言库		

Set the description of three controls including data input, character input, and Chinese input.

(3) When the data type is string, characters or Chinese can be displayed.

To display characters, the encoding format must be set to ASCII, UTF_8 or UTF_16.

To display Chinese, the encoding format needs to be set to GB2312.

		String	-	Jnsigned	•	1	Ĭ
		/					
		1					
¢							>
数据设置		/					
编码格式	UTF_8	~	寄存調	器数 1		*	
列宽	ASCII UTF_8			1.			
数据容量	UTF_16 GB2312						

Display

Title	Display Appearance				
• Tevt					
			Title		
] Colum	✓ Titles in multiline	aual			
Display	Show contents	-	Title nar	ne	Column width
v	席号		序号		57
	名称		静态列	Ĩ.	57
Vumber of Static	5 ✓ Use Multilingualis		Static Column	Name	
Number of	5		Static Column	Name	
Number of	5 ✓ Use Multilingualis Line number 第1行 第2行 第3行		Static Column	Name	
Number of	5 ✓ Use Multilingualis Line number 第1行 第2行 第3行 第4行		Static Column	Name	
umber of	5 ✓ Use Multilingualis Line number 第1行 第2行 第3行		Static Column	Name	
Number of	5 ✓ Use Multilingualis Line number 第1行 第2行 第3行 第4行		Static Column	Name	
Number of	5 ✓ Use Multilingualis Line number 第1行 第2行 第3行 第4行 第5行		Static Column		onize lanquage font
Static	5 ✓ Use Multilingualis Line number 第1行 第2行 第3行 第3行 第3行 第5行 List title				onize lanquage font
Table title	5 ✓ Use Multilingualis Line number 第1行 第2行 第3行 第3行 第3行 第5行 List title	List	Data	☐ Synchrc	onize lanquage font

title	text	Set the name of the data table header
	multiling	After checking, the header content can be set to multiple languages
colu	umn	Show column titles after checking
titles in m	ultilingual	After checking, the title of each column can be set to display in multiple languages
display	number	After checking, an automatically incremented sequence number column will be displayed
		in the first column of the table
display	y name	After checking, the custom name of each row will be displayed, which can be edited in
		the static column name table below, or whether to use multiple languages can be set
table/l	ist title	Set the font, color, size, alignment, and line height for the title display
list	data	Set the color, size, alignment, and row height of the data style font
synchroniz	e language	You can check to use the same font. After checking, the color, size, alignment, and line
fo	ont	height of the three fonts remain consistent

■ Appearance

			Data Table
	Basic Attrib D	isplay Appearance	Security set Location
- 1	- Gallery ap	pearance	
- 1	Customize Backgro		
- 1		Background colo Title Background	
- 1		Settings der preset 🔛 🛛	
		Thi Ck ne ss St	`
		Grid	
gallery appearance	style selection	Click and select	a table style from the gallery
			Style selection
customize appearance	background	background color	Set Table Background Color
		title color	set title background color
	border	border preset	Select a border style based on the preview image
	settings	outer frame	Choose border thickness, style, and color
		grid	Choose the thickness, style, and color of the grid

Security setting

Display contro	ol			
✓ Enable				
When	隐藏 >			
Devic	本地设备	~	Settin	
Addre	PSB v (D		
Enable	Sta ON 🗸	Indirect		
User perm <mark>iss</mark> i	on			
✓ Hide this	component when the us	er has no <mark>permiss</mark>	ion scope	
User per	mission Permission1	~		
range				

display control	Use bit control to display the component, and hide the control when the condition is not met
enable	When checked, display control will be enabled
When validation	Set the display of the control when validation fails
fails	
address	Set the target coil for positioning control
enable state	Set the ON state to be valid or the OFF state to be valid;
	Example: If the device is checked as shown in the above figure, the bit control is PSB0, and if
	verification fails, it is hidden. If the enabled state is ON, the component is displayed normally
	when PSB0 is ON, and if PSB0 is OFF, the component is hidden and not displayed.
user permission	Set controlled permission levels. After setting the required user's permission range, the
	following three functions can be checked as needed:
	(1) After the operation is completed, the usage permission will be cancelled: if this option is
	not checked, the corresponding level password needs to be entered every time the component
	is operated. After checking, only one entry is required.
	(2) When the user has no permission range, a prompt window will pop up.
	(3) When the user does not have permission range, hide the component.

Please refer to chapter 4-2-3 value input for permission function.

Location

Same to chapter 4-1-1 straight line location part.

4-6. Recipe

4-6-1. Recipe edit

click "parts/recipe/recipe edit in the menu or click recipe edit icon in tool bar to enter recipe edit interface.

			Re	cipe manag	gement					
Recipe c	group Recipe data									
Recipe group	0 v	Name	e Recipe_0		Add reci	pe Dele	ete re	ecipe		
recipe	e list Recipe_0	Add Ins Recip	ert Delete Delete all	E Copy Paste						
		Recipi	4 volu	ume 10	00					
		No.	Element name	Data ty	/pe	Data form	at	number	Integer	Decimal
		0	0	Word		Unsigned		1	4	0
		1	1	Word		Unsigned		1	4	0
		2	2	Word	-	Unsigned		1	4	0
		3	3	Word		Unsigned		1	4	0
										1

Recipe group

	1						
recipe group	Select the	recipe group that needs	to be edited, a	nd all	added recipe	grou	ps can be selected
	through th	e drop-down menu					
name	Set the nat	me of the recipe group					
add recipe	After ente	ring the name, click on	"Add Recipe" to	o add a	new recipe	group	
delete recipe	Click to de	elete the selected recipe	group				
recipe group list	Display al	l added recipe group nu	mbers and name	es in tl	ne list below		
add	Add recip	e elements					
insert	Insert a ne	w recipe element below	the selected red	cipe el	ement		
delete	Delete sel	ected recipe elements					
delete all	Delete all	elements in this group					
сору	Copy the s	selected recipe element					
paste	Pasting th	e copied data at the sel	lected location,	a new	piece of da	ta nar	ned xxxx_copyed
	will be ad	ded					
	No.	Element name	Data type		Data forma	at	
	0	0	Word	1.70	Unsigned		
	1	1	Word	-	Unsigned	19 1	
	2	1_Copyed	Word	•	Unsigned	-	
recipe length	Automatic	ally display the length	of the currently	added	recipe and ca	annot	be edited
recipe volume	Each grou	p of recipe data has a s	eparate data vol	lume.	As shown in	the a	bove figure, if the
	data amou	int is set to 100, it mean	ns that up to 10	0 sets	(0-99) of da	ta can	be set within the

	recipe group 0. If it exceeds this, a pop-up prompt will appear in the following figure.
	recipe group 0. If it exceeds this, a pop-up prompt will appear in the ronowing righter.
	Prompt
	Current recipe has reached upper limit of data
	Ok
element list	Show all added elements
No.	Recipe element number, cannot be modified
element	Set element names, such as water, length, etc
name	
data type	Set the recipe element data type, which can be selected from 8-bit, 16-bit, 32-bit, or 64-bit
	types
data format	Set the data format for recipe elements
number	only when selecting ^{Byte_String} DDWord_String DDWord_String DDWord_String Word_String-1 character Word_String-2 characters DWord String-4 characters
	DDWord String-8 characters
words	Display the address length occupied by this element, with 16 bits being 1, 32 bits being 2,
WOLUS	and 64 bits being 4
integer	Set the integer digits of data
decimal	Set the number of decimal places for data
	No. element name data type lata format number words integer

Recipe data

			Recip	e manager	nent				×
Recipe group Recipe data									
all recipe group list	Search		P	Add Insert	Delete Delete a				
配方0 Recipe_0 配方1 Recipe_1		Use external a		O Nan	ne Index				
		Number index	1		ie index				
	序号	名称	0	1	1_Copyed	元素3	元素4	元素5	元素
	0	data0	0	0	0	.0	0		θ
	1	data1	0	0	0	0	0	0	0
	2	data2	0	0	D	0	0	0	0
	3	data3	0	0	0	0	0	0	0
	4	data4	0	0	0	0	0	0	0
	<								>
						Determi	ne Can	cel Appl	

search	Enter a name to search for recipe data
add	Add recipe data below the selected location
insert	Insert a new piece of data at the selected data
delete	Delete selected recipe data
delete all	Delete all recipe data for this group
use external address	Recipe index function, which can be indexed by recipe number or name

4-6-2. Recipe table

Used to display the recipe data set in recipe edit, which can be edited in this table.

Click "Parts/Recipe/Recipe Table" icon in the menu bar or " icon in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or use the ESC key to cancel the placement. Modify the length and width of the border through the boundary point.
 When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on the "Recipe Table" or select "Recipe Table" and right-click to select "attributes" for attribute settings.

Basic attributes

					Recip	e table						
	Ba	asic A	ttril Display Ap	pearan	Query See	curity s Lo	cation					
		Con	trol ID RL0									
		Des	cription									
			source		-	-						
		gro	ipe Recipe_0	~	Recipe Ed	lit						
			Full display		Editable	e						
			Element name	ditable	Data type		Intogor	Decimal				
		Pelec		ultable	Word	number	4	O				
			1		Word	1	4	0				
		Ē	1_Copyed		Word	1	4	0				
			元素3		Word	1	4	0				
			元素4		Word	1	4	0				
			元素5		Word	1	4	0				
			元素6		Word	1	4	0				
			元素7		Word	1	4	0				
			元素8		Word	1	4	0				
		Dat										
		Dat	a capacity Total									
			rows	-1								
			Lines per	5		* *						
			page			990						
cont	trol ID	Use	ed for system	n mana	agement co	ontrols,	user ca	nnot opera	ite			
desc	ription	Car	n be used to	annota	te the pur	pose of	this con	ntrol				
data	recipe	Sel	ect the recip	e grou	p that nee	eds to b	e displa	ayed, or cl	ick on the	recipe	editor to	add or
source	group	mo	dify the recip	pe gro	up							
		Wh	en the recip	pe gro	oup is sel	ected, t	he tabl	e below a	lisplays a	ill the	elements	of the
		sele	ected recipe	group								

full di	isplay	After checking, all the recipe items to be displayed can be checked with one click. Only
		when checked under the "Selection" column will the data of each group of the element be
		displayed. If you do not want to display the data of a certain element, simply uncheck it
edit	able	After checking, all the recipe items to be edited can be checked with one click, and the
		data can be modified in the recipe table. Only after checking the "Editable" column and
		downloading it to the screen or simulating it can the data of a certain element be edited. If
		a certain element is not checked, it cannot be modified
data	total rows	Set the maximum number of rows displayed in the table
capacity	lines per	Set the number of rows displayed on each page to be less than or equal to the maximum
	page	number of rows per page

Display

Title displa	ay O Multilina			
		Recipe_0		
lisplay list				
Use	 Display 	Show row	✓ Show	
	w Items	Title Title Description	Column	Move up
	序号	序号	60	
	CHARGE IN COMPANY	名称	60	
	名称			Move down
erial Numl	ber Style			
	ber Style	~		
erial Numl	ber Style e1 (1/2/3)	~		
erial Numl Style Style Title description	ber Style e1 (1/2/3)	· ·	Synchronize lanc	Default
erial Numl Style Style Litle description Column header	ber Style e1 (1/2/3) n List title	▼	Synchronize land	Default
erial Numl Style Style Iitle description Column header able title	ber Style e1 (1/2/3) n List title	List Data	×	Default
erial Numl Style Styli Column neader able title	ber Style e1 (1/2/3) n List title ≅	↓ ✓ ↓ ✓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	v	Default

title	title display	To display the title, you need to check the title display option before you can set the
display		relevant settings for the title
	text	Set the name of the recipe table header
	multiling	After checking, the header content can be set to multiple languages
display list	use	After checking, the title of each column can be set to display in multiple languages

multilanguage	
display no.	After checking, an automatically incremented sequence number column will be
	displayed in the first column of the table
show row title	After checking, the column titles and element names for each row will be displayed,
	and you can also edit the title names in the table below
show column	After checking, the column title (i.e. element name) of the list name will be
title	displayed, or you can edit the title name in the table below
operations	After selecting a row in the table, you can click "Move Up" or "Move Down" to
	move the selected row up or down. You can click on the default and restore the
	default settings with one click

When the list displays multiple languages, "..." will be displayed in the bottom right corner of the title description. Clicking on it will lead to the multi language library setting interface to set up multiple languages.

Use	 Display 	Show row		Show
Sho	w Items	Title Title Descrip	tion	Column
1	序号	序号	1000	60
6	名称	名称		60

serial number style	Set the style of the sequence number column, 1/2/3 or the group1/group2/group3
title background color	Set the background color of the title
column title	Set the background color of column title
background color	
font	Set the font, color, size, alignment, and row height for table titles/list titles/list data. You
	can check to use the same font. After checking, the three fonts, color, size, alignment, and
	row height, all remain consistent.

Appearance

	Recipe table
lasic Attri Display Appearance Qu	ery Security s Location
Gallery Appearance	
 Customize appearance Backgroud 	
Background color	V Different colors of odd
Border Settings	
Border preset 🔲 📃	
Outer frame	
Thi	
ck	
ne	
ss St	×
Arristo Ma	
Grid	
Select Focus	
Text color	v
Row background color	~
Cell	

gallery appearance	style se	election	Click and select a table style from the gallery Gallery Appearance Style selection
customize appearance	background setting	background color	set the background color of the table
background		different color of odd	After selection, you can set the odd and even rows to display different colors Customize appearance Backgroud Odd line color V Different colors of odd Even line color V
	border setting	border preset	Select a border style based on the preview image
		outer frame	Set the thickness, style, and color of the outer frame
		grid	Set the thickness, style, and color of the grid
	select focus	select focus	Set the display style
		text color	Set the text color displayed
		row	Set the selected row background color
		background	
		color	
		cell	Set the background color of the selected cells

Query

1 Export

Recipe table							
Basic Attribu	Display	Appearance	Query	Securit	y setti Lo	ocation	
Picture	PSBO	Export	ON->OF	Fv	Export	PNG	~

Select the **Picture** to use picture export function. Meets export conditions, export format is PNG.

2 Query

	Recipe table
Basic Attri Display	Appearan Query Security s Location
✓ Pictur PSB0	Export conditi ON->OFF v Export Format PNG v
✓ Enable query fun	ction
Query method	
Query by	Query by data
Query settings	
Query Control	PSBO
Ouan kanward	Use register

Select Enable query function to use query function. Filter data based on conditions and display it in the current recipe table.

There are two ways to query: by keyword and by data, and you can also use register control to query.

 Query by keyword: Enter the keyword to be queried, and after the query control bit is connected, the filtered results will be automatically displayed; You can also choose to use registers to dynamically specify keywords for queries.

Query by	○ Query b	oy data
Query settings		
Query Control	PSB0	
Quantikanuard		Use register

(2) Query by data: Enter the data to be queried, and after the query control bit is turned on, all recipes containing this data will be automatically displayed. Alternatively, you can choose to use registers to dynamically specify the query data.

Query method	
O Query by	Query by data
Query settings	
Query Control	PSB0
()	1

Security setting

			2,52	ecipe table
asic Attri	Display	Appearan	Query	Security se Location
– Display	control			
Enal Enal				
When		-		
		隐藏	~	
I	Devic z	5地设备		✓ Settin
1	Addre p	SB	~	0
		01		☐ Indirect
8	Enable St	aun	·	
User pe	rmission			
11725			hen the u	user has no permission scope
	er permi	ssion Per	mission1	
rai	nge			

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-6-3. Recipe transfer

Use this button to upload and download recipes.

1. Click "Parts/Recipe/Recipe Transfer" icon in the menu bar or the "icon in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or use the ESC key to cancel the placement. Modify the length and width of the border through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on "Recipe Transfer" or select "Recipe Transfer" and right-click to select "attributes" for attribute settings.

Basic attributes

	Recipe Transfer	×
as <mark>ic A</mark> ttrib	Appearance Security sett Location	
Contr	ol ID RTO	
Descr	iption	
Actio	n Press v	
Actio		
- transmis	ssion mode	
	ssion mode mload recipe to 🛛 🔘 Upload Recipe from PLC	
Dow	nload recipe to 🛛 🔿 Upload Recipe from PLC	
Dow		
Dow	nload recipe to 🛛 🔿 Upload Recipe from PLC	
● Dow ○ Regi	nload recipe to O Upload Recipe from PLC	
Dow Regi Recip	nload recipe to O Upload Recipe from PLC ister control	
 Dow Regi Recip source 	rnload recipe to O Upload Recipe from PLC ister control	<u></u>
Dow Regi Recip	nload recipe to O Upload Recipe from PLC ister control	
Dow Regi Recip sourc Number c	mload recipe to O Upload Recipe from PLC ister control Pere Recipe_0 V Recipe Register 9	
 Dow Regi Recip sourc Number of words 	mload recipe to O Upload Recipe from PLC ister control Pere Recipe_0 V Recipe Register 9	
Dow Regi Recip sourc Number c words PLC add	mload recipe to Upload Recipe from PLC ister control pe Recipe_0	
 Dow Regi Recip sourc Number of words PLC add Devic 	mload recipe to Upload Recipe from PLC ister control Pe Recipe_0 Recipe Register of 9 dress 本地设备 ✓ Settin	

	control ID	Used for system management controls, user cannot operate					
	description	Can be used to annotate the purpose of this control					
	action	Select the button action mode, and you can choose to transmit when pressed or released					
	transmission mode	et the transmission direction of the recipe, which can be downloaded from the HMI to					
		the PLC or uploaded from the PLC to the HMI					
	download recipe to PLC	Transfer the recipe data in the HMI to the PLC address, which is set in the address					
		below					
	upload recipe from PLC	Read the data from the PLC address to the HMI and replace the existing recipe data					
	register control	Using register controlled transmission method, transmitting through rising/falling edge triggering					
		transmission mode					
		O Download recipe to O Upload Recipe from PLC					
		Register control Download recipe to					
		Upload Recipe from					
-	recipe source	Select the recipe group that needs to be transferred, or click on the [recipe] button to					
		modify the recipe data					
	register	After checking this option, the value in the register can be used to control which recipe					
		group to export (if the value in the register is 0, it means that the upload and download					
		data transmission of recipe group 0 is being carried out; if the value in the register is 1,					
		it means that the upload and download data transmission of recipe group 1 is being					
		carried out)					
	number of words	Display the length of the recipe that needs to be transferred and cannot be changed					
	PLC address	Set the PLC initial address for transmission or upload, and calculate the occupied					
	PLC address	Set the PLC initial address for transmission or upload, and calculate the occu					

	address le	ngth based	on the word n	umbers set abov	ve		
device	The devic	e port curre	ntly communi	cating with			
address	Set Target	Register N	umber				
data type	Byte-8Bit	; Word-16B	it; DWord-	32Bit; DDWord	-64Bit; BCD; He	ex; Signed number;	
	Unigned number; Floating number						
setting	Click "Settings" to enter the address setting interface. This interface allows you to set						
	the use of system registers and user-defined labels. You can click on the address label						
	library or	the project	tree - library	- address label	l library below to	set the labels used	
	(refer to 5	-2 Address	Label Library	y for the use of	address label libra	ry and user-defined	
	labels)						
			Ade	dress	×		
	Device	本地设备		v	Statio 0		
	Address	PSW	448		n No.		
	type		×		User defined label		
	Address	0			System register		
	数据类型	Word Y	Unsigned 🛛 🗡				
	Address format	[range : 0 - 99	99]				
	Tormat						
					Address Label		
				11 T	Address Laber		
			C.	Determine Car	Application		
	-						
indirect specify					•	s changes with the	
	-	-	-			value] (x, y=0, 1, 2,	
		-	0			ly specified address	
				•		er that controls this	
	-				PSW100 register i	s 1, the register that	
		•	ent is PSW1 (a	,			
recipe transfer		•		completion, an	nd automatically	set it to ON after	
completion	transmissi	on is compl	eted				

Appearance

		-		
6		 Use pictu 	res	
		Status	0	~
OFF		Name	button_05_a	
L		catego	y svg	
		Size	80 × 42	
✓ Fill			1	
	• [- Font applied to		
State 0 Tavt O Multil		Font applied to		
State 0 Tevt O Multil	ina	OFF	each	
State 0 Text O Multil		OFF	each	

use pictures	You can check whether to use images. If checked, you can set the appearance of the recipe
	transmission in two states: (0, 1). After selecting the state in the upper right corner, click
	"Change Appearance" or "More pictures" to select custom images to change the appearance
fill	Can set fill styles (solid/gradient) and fill colors
state	You can set the text prompt content for recipe transmission in two states (0, 1), and whether to
	use multiple languages (please refer to the description of libraries in chapter 4-7 for specific
	use of multiple language libraries). Check the drop-down list to set the font corresponding to
	the corresponding status of the recipe transmission, or click on the "Font applied to each state"
	button to set the font for all states
font	The font, size, color, and display position of the font in the control can be set

Security setting

	Recipe Transfer
E	Basic Attribu Appearance Security setti Location
	Operation confirmation delay
	Confirm before Waiting time
	C Key delay
	Display control
	When 隐藏 V
	Devic 本地设备 v Settin
	Addre PSB V 0
	Enable Sta ON V Indirect
	Enable control
	✓ Enable
	Devic 本地设备 v Settin
	Addre PSB v 1
	Enable Sta ON V Indirect
	User permission
	Hide this component when the user has no permission scope
	User permission None 🗸
	range
operation	You can set the delay time (s). If this option is checked, a pop-up window will appear when
confirmation delay	operating the component, saying "Are you sure to execute this operation?" If you do not click "ok" or "cancel" within the set waiting time, the pop-up window will disappear and the
delay	operation will fail; If you click 'OK' within the waiting time, the operation is successful, but
	clicking 'Cancel' is invalid.
key delay	Long press the set delay time before the operation takes effect
display control	Use bit control to display the component. When the conditions are not met, the control is
	hidden and defaults to hidden, which cannot be modified
enable	When checked, display control will be enabled
When validation	Set the display of the control when validation fails
fails	
address	set the target coil for bit control
enable state	Set the ON state to be valid or the OFF state to be valid.
	Example: If the device is checked as shown in the above figure, the bit control is PSB0, and if
	verification fails, it is hidden. If the enabled state is ON, the component is displayed normally
anal-1	when PSB0 is ON, and if PSB0 is OFF, the component is hidden and not displayed.
enable control	Can be set with bit restrictions (customizable enable control enabled state), and only when the
	enable conditions are met can the component be used normally (as shown in the figure above: when PSB1 is in the ON state and the trigger conditions are met, this component can be used;
	if PSB1 is in the OFF state, even if the trigger condition is met, this component is still
	unavailable)

user permission	Set controlled permission levels.
	To set the permissions for this component, you need to enter the password for the set
	permission level before the component can be used normally. When there is no permission for
	this component, it will be hidden

Location

Same to chapter 4-1-1 straight line location part.

4-6-4. Recipe transfer application

1. Create the recipe data table to be transferred in "Recipe Edit" (for the convenience of explaining the function,

the following data is for example)

1> Establish Recipe 0- Bread recipe 0

		Re	cipe manage	ement					
Recipe group Recipe data	Name	Bread recipe 0	4	Add reci	pe Dele	te re	cipe		
group recipe list 配方0 Bread recipe 0	Add Inser	t Delete Delete all	E E						
配方1 Recipe_1	Recipe	5 Rec volu	ipe data ime 100 Data typ		Data forma	ət	number	Integer	Decima
	0	0				30	4		
	0	flour	Word		Unsigned	-	1	4	0
	1	water	Word	•	Unsigned Unsigned	*	1	4	0
		AND ADA			and the second second second				
	1	water	Word	-	Unsigned	*	1	4	0

			Recip	e manageme	ent		
Recipe grour Recipe data							
all recipe group list	Search		P	Add Insert E	Delete Delete	all	
配方0 Bread recipe 0 配方1 Recipe_1		Use external a	address			01	
	序号	名称	flour	water	sugar	butter	egg
	0	数据0	10	11	12	13	14.6
	1	数据1	20	21	22	23	24.6
	2	数据2	30	31	32	33	34.6
	3	数据3	40	41	42	43	44.6
	4	数据4	50	51	52	53	54.6
	5	数据5	60	61	62	63	64.6
	6	数据6	70	71	72	73	74.6
	7	数据7	80	81	82	83	84.6
	8	数据8	90	91	92	93	94.6
	9	数据9	100	101	102	103	104.6

2> Build Recipe 1-Bread recipe 1

		Re	ecipe manage	ment					
Recipe group Recipe data									
Recipe group	V Name E	Bread recipe 1	A	ld <mark>re</mark> cip	Dele	te recip	De		
recipe list	田田								
配方0 Bread recipe 0 配方1 Bread recipe 1	Add Insert Recipe	Re	Copy Paste cipe data lume 100						
	No.	Element name	Data type	5	Data forma	it n	number	Integer	Decima
	0	flour	Word	•	Unsigned	•	1	4	0
	1	water	Word		Unsigned	.*	1	4	0
	2	sugar	Word	-	Unsigned		1	4	0
	3	butter	Word		Unsigned	•	1	4	0
	4	egg	DWord	1.60	Float	•	1	4	4
Recipe grou <mark>r</mark> Recipe da	ata		Recip	2 11141	agement		18		
Recipe grou <mark>g Recipe da</mark> all recipe group lis 配方0 Bread recipe 0 配方1 Bread recipe 1	st Search	Use external ad	P		Insert Dele		Rete all		
all recipe group lis 配方0 Bread recipe 0	st Search		P	Add	E X		lete all	butter	egg
all recipe group lis 配方0 Bread recipe 0	st Search	Use external a	ddress	Add	Insert Dele	te De	lete all	butter 103	111
all recipe group lis 配方0 Bread recipe 0	st Search	Use external ad	ddress flour	Add w	Insert Dele	te De	lete all		104.1044
all recipe group lis 配方0 Bread recipe 0	st Search 「序号 0	Use external ac 名称 数据0	ddress flour 100	Add w	Insert Dele ater	te De sugar 102	lete all	103	104.1044 204.2044
all recipe group lis 配方0 Bread recipe 0	st Search	Use external ac 名称 数据0 数据1	ddress flour 100 200	Add w	Insert Dele	te De sugar 102 202	lete all	103 203	104.1044 204.2044 304.3044
all recipe group lis 配方0 Bread recipe 0	st Search 原号 0 1 2	Use external ad 名称 数据0 数据1 数据2	flour 200 300	Add w 1 2 3 4	Insert Dele	te De sugar 102 202 302	lete all	103 203 303	104.1044 204.2044 304.3044 404.4044
all recipe group lis 配方0 Bread recipe 0	st Search 原号 0 1 2 3	Use external ad 名称 数据0 数据1 数据2 数据3	flour 100 200 300 400	Add	ater 01 001 001	sugar 102 202 302 402	lete all	103 203 303 403	104.1044 204.2044 304.3044 404.4044 504.5044
all recipe group lis 配方0 Bread recipe 0	st Search 序号 0 1 2 3 4	Use external ad 名称 数据0 数据1 数据2 数据3 数据4	flour 100 200 300 400 500	Add	ater 01 01 01 01 01	sugar 102 202 302 402 502	lete all	103 203 303 403 503	104.1044 204.2044 304.3044 404.4044 504.5044 604.6044
all recipe group lis 配方0 Bread recipe 0	st Search 「 序号 0 1 2 3 4 5	Use external ad 名称 数据0 数据1 数据2 数据3 数据4 数据5	flour 100 200 300 400 500 600	Add	ater 01 01 001 001 001 001 001 001 001 001	sugar 102 202 302 402 502 602	lete all	103 203 303 403 503 603	egg 104.1044 204.2044 304.3044 404.4044 504.5044 604.6044 704.7044 804.8044
配方0 Bread recipe 0	st Search 原号 0 1 2 3 4 5 6	 Use external ad 名称 数据0 数据1 数据2 数据3 数据4 数据5 数据6 	flour 100 200 300 400 500 600 700	Add ww 1 2 3 4 5 6 7 8	ater 01 001 001 001 001 001 001 001 001 001	sugar 102 202 302 402 502 602 702	lete all	103 203 303 403 503 603 703	104.1044 204.2044 304.3044 404.4044 504.5044 604.6044 704.7044

2. Set data transfer function

1> Establish recipe transfer settings (the function of transferring recipe data can be achieved through function keys/recipe transfer).

recipe transfer-download recipe to PLC

	Recipe Transfer
Basic Attrib	Appearance Security sett Location
Contr	ol ID RT0
Descr	iption
Actio	n Press 🗸
transmi	ssion mode
🔿 Regi	ster control
Recip	e Bread recipe Recipe Register DEWO
Recip	e Bread recipe 0 v Recipe V Register PFW0
Recip	e Bread recipe 0 v Recipe V Register PFW0
Recip sourc – PLC add	e Bread recipe 0 v Recipe V Register PFW0
Recip sourc – PLC add Devic	e Bread recipe 0 ∨ Recipe ✓ Register PFW0 ress 本地设备 ∨ Settin

Function key - recipe download

w Help		Function key	
w Help by Cut Paste Delete D0001]Page1 本 리 피 에 네 옵 :	Function Appearance Security set Control ID FB0 Description Action Press Status Start	Location Y	
	Functions		Optional functions
	下载配方 To PSW0	_	设置线圈
		Add	设置数据
			四则运算
	Download recipe	×	数据传输
Basic Attributes Security settings			画面切换
配方源 Bread recipe 0	✓ Recipe ✓ Specified	PFW0	调用窗口
Recipe download address			关闭窗口
Devic 本地设备	v Settin		导入CSV
Addre PSW	× 0		导出CSV
Data Word ∨ Unsigne type	🖳 Indirect		上传配方
442			15 载和37方
Desire transfer sound	sing flag		函数调用
Recipe transfer complete	PSB0		画面打印

Recipe upload is the same as recipe download, simply change the "Download Recipe to PLC"/"Download Recipe" to "Upload Recipe from PLC"/"Upload Recipe". The recipe transfer function is consistent with the recipe transfer function achieved by the function keys. Below is an example of recipe transfer

2> Place corresponding controls based on the set parameters.

ander ander ander ander Reis 1995 Reis 1995 Reis	Recipe Transfer
	Basic Attribut Appearance Security sett Location
niai liad liad liad liad Niai 7000 Pris Pris Trac	Control ID RT0
	Description
	Action Press V
	transmission mode O Download recipe to O Upload Recipe from PLC
	O Register control
	Recipe Breach recipe 0 Recipe Register PFW0
RANE TANE TANE TANE TANE	PLC address
	Devic 本地设备 v Settin
(OFF)	Addre pSW v 0
	Data Word V Unsignec V Indirect
	Recipe transfer completion PSB0

Note:

The address set by the PLC is shown in the following figure, starting from the first address and progressing sequentially according to the element data type address

		R	ecipe manager	nent			
Recipe group Recipe data							
Recipe group	✓ Nan	me Bread recipe 0	Ad	ld recij	Dele	te re	cipe
recipe list 配方0 Bread recipe 0		esert Delete Delete all	Copy Paste				
配方1 Bread recipe 1	Reciperation Recip		cipe data lume 100 Data type		Data forma	at	number
	0	PSW0 flour	Word		Unsigned		1
	1	PSW1 water	Word		Unsigned		1
	2	PSW2 sugar	Word		Unsigned	3 7 6	1
	3	PSW3 butter	Word		Unsigned		1
	4	PSW4 egg	DWord	*	Float	-	1

The data type of the PLC address should be consistent with the element data type set in the recipe table, such as

egg element

4	egg	DWord	*	Float	*

The data type is Dword-Float, then when setting PLC address, it needs to set to this type.

	Devic	本地设备				~	Settin
The second second	Addre	PFW		~	4		
	Data	DWord 🗸	Float	~	Terandisa sa		
	type			0	Indirect		

3. Put the recipe table on the screen

asic At	tril Display Ap	opearan	Query Se	curity s Lo	cation									
Cont	trol ID RL0						10.00							
Desc	ription						OFF							
Data	source													
			1						100100000000000000000000000000000000000	142.150	1.12.00	2200.2	222.02	
	ne -	1.0	1 A A											
grou	pe Bread recipe	0 .	 Recipe Ed 	it —			81.0 5FS91	06	Bread regioe 0					
3	pe Bread recipe up display	0 >	Recipe Ed Editable				81.0 57591	0 4	Bread recipe 0					
₽ F	ull display	//	Editable	t.	Integer	Decimal	RL0 37591	06 /#9	Bread recipe 0 名称	flour	water	sugar	butter	cg
₽ F		//	1	t.	Integer 4	Decimal	17551	T .		-	water	sugar	butter	eg
✓ F ielec	ull display Element name	//	Editable	t.	Integer 4 4	Decimal 0	10 17501	T .		-	water	sugar	butter	cg
Fielec	ull display Element name flour	ditable	Data type	t.	4	Q		T .		-	water	sugar	butter	cg
ielec V	ull display Element name flour water	ditabl	Data type Word Word	number	4	0		T .		-	water	sugar	butter	eg

4. Put a recipe index register SPSW256.

虚	DT1	STO
	SP 50968	Index register
1212	NAMES NAMES	. NACES NACES NACES NA

- 5. Take offline simulation as an example:
- 1> Recipe download

As shown in the following figure, change the register data of the specified recipe group to 0 and the index register to 3. Click the recipe download button. At this moment, download data 3 from recipe table 0 to PLC. After the download is completed, the recipe transfer completion flag will light up. To restore it, you need to manually set it to OFF.

egg
14.6
24.6
34.6
44.6
54.6

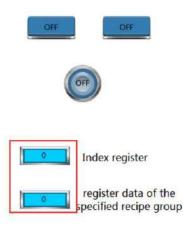
As shown in the following figure, change the register data of the specified recipe group to 1 and the index register to 0. Click the recipe download button. At this point, download the data 0 from recipe table 1 to the

PLC. After the download is completed, the recipe transmission completion flag will light up. To restore it, you need to manually set it to OFF.



2> Recipe upload

As shown in the following figure, change the register data of the specified recipe group to 0 and the index register to 0. Click the upload recipe button. At this point, upload the data from the PLC to the data 0 in the recipe table 0. After the upload is completed, the recipe transfer completion flag will light up. To restore, you need to manually set it to OFF.



			Bread recipe	0		
序号	名称	flour	water	sugar	butter	egg
0	数据0	10	11	12	13	14.6
1	数据1	20	21	22	23	24.6
2	数据2	30	31	32	33	34.6
3	数据3	40	41	42	43	44.6
4	数据4	50	51	52	53	54.6

4-6-5. Event button

1. Click on the "Parts/Recipe/Event Button" icon in the menu bar or the " icon in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or use the ESC key to cancel the placement. Modify the length and width of the border through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click the "Event Button" or select the "Event Button" and right-click to select "attributes" for attribute settings.

Basic attributes

asic Attrib Appe	arance Security se	Location		
Control ID	RE0			
Description				
			14	
Function typ	e		Key action	

cont	rol ID	Used for system management controls, user cannot operate				
desc	ription	Can be used to annotate the purpose of this control				
functi	on type	The recipe operation is checked by default and cannot be unchecked				
key action	Insert a row	After selecting a row of recipe data in the recipe table, click this control to insert a row				
	above the	of data with empty name, empty data (the data type of the selected row element is				
	selected row	string), or 0 (the data type of the selected row element is Byte, Word, DWord,				
		DDWord) above the row				
	Insert a row	After selecting a row of recipe data in the recipe table, click this control to insert a row				
	below the	of data with empty name, empty data (the data type of the selected row element is				
	selected row	string), or 0 (the data type of the selected row element is Byte, Word, DWord,				
		DDWord) below the row				
	delete	After selecting a row of recipe data in the recipe table, click this control to delete the				
	selected row	entire row in which it belongs				
	copy	After selecting a row of recipe data in the recipe table, click this control to add a blank				
	selected row	row of recipe data with the same name as the row below it				

		1		
-		Use pictur	<u></u>	
		Status	0	~
OFF		Name	keyboard_01	_a
		categor	ysvg	
-		Size	80 × 42	
Change appe	arance		Mc	ore pictures
✓ Fill		4		
		· · · · · Eon	t applied to ap	ch
tate 0	• 🗹 D	isplay text Fon	t applie <mark>d</mark> to ea	ch
Fill Text O	1	isplay text Fon	t appli <mark>e</mark> d to ea	ich
tate 0	1	isplay text Fon	t applied to ea	ch
tate 0	1	isplay text Fon	t applied to ea	ch
tate 0	1		t applied to ea	ich
tate 0	1	isplay text Fon	t applied to ea	ich
tate 0	1		t applied to ea	ich
State 0	1		t applied to ea	ich
tate 0 • Tevt O Multil	1		t applied to ea	ich
tate 0 Tevt O Multil	ina	OFF		ich
Tevt O Multil	1	OFF	t applied to ea	ch

appearance	You can check whether to use images. If checked, you can set the appearance of the event button in
	two states (0, 1). After selecting the state in the upper right corner, click "Change appearance" or
	click "More pictures" to select custom images to change the appearance
fill	Can set fill styles (solid/gradient) and fill colors
state	The text prompt content of the event button can be set in two states (0, 1), and whether to use
	multiple languages can be set (for specific use of multiple language libraries, please refer to chapter
	5-1 labels for multiple languages). Tick the drop-down list to set the font corresponding to the
	corresponding state of the event button, or click the "Font applied to each state" button behind to
	set the font for all states
font	Can set font, font style, color, size, and font display position in the control

		Event button
Ba	sic Attrib Appea	arance Security set Location
	Operation con	
	Confirm b	
	✓ Key delay	Delay time
	Display control	
	✓ Enable	
	When	隐藏 ~
	Devic	本地设备 v Settin
	Addre	PSB v 0
	Enable	Sta ON v Indirect
	Enable control	
	 Enable 	
	Devic	本地设备 v Settin
	Addre	PSB V 1
	Enable	Sta ON V Indirect
	User permissio	n
	Cancel pe	rmission after operation
	A prompt	window pops up when the user has no permission range
	Hide this	component when the user has no permission scope
	User perr	nission None 🗸
	P	
operation	You can set t	the delay time (s). If this option is checked, a pop-up window will appear when
confirmation	operating the	component, saying "Are you sure to execute this operation?" If you do not click
delay	"confirm" or	"cancel" within the set delay time, the pop-up window will disappear and the
	operation wil	I fail. If you click 'OK' within the waiting time, the operation is successful, but
	clicking 'Can	cel' is invalid
key delay		e set delay time before the operation takes effect
display control		rol to display the component. When the conditions are not met, the control is
		efaults to hidden, which cannot be modified
enable		d, display control will be enabled
When validation	Set the displa	y of the control when validation fails
fails		
address		coil for positioning control
enable state		ate to be valid or the OFF state to be valid.
	_	he device is checked as shown in the above figure, the bit control is PSB0, and if
		ails, it will be hidden. If the enabled state is ON, the component will be displayed
	-	he PSB0 state is OFF, the component will be hidden and not displayed
enable control		with bit restrictions (customizable enabled state), and only when the enable
		e met can the component be used normally (as shown in the figure above: when
		he ON state and the trigger conditions are met, this component can be used; if
		the OFF state, even if the trigger condition is met, this component is still
	unavailable)	

user permission	Set controlled permission levels
	After setting the required user's permission range, the following three functions can be checked
	according to the needs.
	(1) After the operation is completed, the usage permission will be cancelled: if this option is
	not checked, the corresponding level password needs to be entered every time the component
	is operated. After checking, only one successful input is required.
	(2) When the user has no permission range, a prompt window will pop up.
	(3) When the user does not have permission range, hide the component.



The function of permission please refer to chapter 4-2-3 value input.

Location

Same to chapter 4-1-1 straight line location part.

4-7. Operation record

4-7-1. Operation record setting

This control can record the user's usage steps and content of other operable controls, and display them through the "Operation Record Display". This function can be used to assist in analyzing operational processes and problem points.

Click on the menu bar 'Parts/Operation Record/Operation Record' or click ^{Operation record} in the toolbar to enter the operation record configuration interface. After checking the enable operation record, the display is as follows:

	Operation rec	cord set	ting	×
✓ Enable operation logging				^
Screen	Part 📑	Jelect	Description	1
User screen1:[00001]				
System picture2000		H		
System picture2000		H		
System picture2000				
System picture2001				
System form25001:[
		- 1 . 1		
Control address				
Enable control	Enabling	OFF	~	
	method			
Clear control	Clear by	ON->0	DFF V	
Save setting				
● H ○ U				
Export Control				
 Fixed file O Date Storage capacity 10000 Count Insufficient HMI space Stop saving records 	 O Register O Overwrite old 	d rec <mark>ord</mark>	s	
Data retention days				
	Dav			~
<				>
		Deter	mine Cancel	Application
Select to indicate that if	the control i	s opera	ated, the operation	n record will l
		1. 1	the " , sign to	expand the co
	lav". You car	CHCK	une sign tu	expand the co
"Operation Record Disp		1 CIICK	0	
		I CIICK	U	
"Operation Record Disp and set whether to check Screen	them.		Screen	Part
"Operation Record Disp and set whether to check	them.			Concernence of the second s
"Operation Record Disp and set whether to check Screen	them. Part		Screen Jser screen1:[000	01]
"Operation Record Disp and set whether to check Screen User screen1:[00001] System picture2000	c them. Part		Screen Jser screen1:[000 窗口1:[00001]Pag	01] Je1 Recipe T
 "Operation Record Disp and set whether to check Screen User screen1:[00001] System picture2000 System picture2000 	c them. Part		Screen Jser screen1:[000 窗口1:[00001]Pag 窗口1:[00001]Pag	01] Je1 Recipe T Je1 Function
 "Operation Record Disp and set whether to check Screen User screen1:[00001] System picture2000 System picture2000 System picture2000 	c them. Part		Screen Jser screen1:[000 窗口1:[00001]Pag 窗口1:[00001]Pag 窗口1:[00001]Pag	01] Je1 Recipe T Je1 Function Je1 Value inp
 "Operation Record Disp and set whether to check Screen User screen1:[00001] System picture2000 System picture2000 System picture2000 System picture2000 	c them. Part		Screen Jser screen1:[0000 窗口1:[00001]Pag 窗口1:[00001]Pag 窗口1:[00001]Pag 窗口1:[00001]Pag	01] je1 Recipe T je1 Function je1 Value inj je1 Value inj
 "Operation Record Disp and set whether to check Screen User screen1:[00001] System picture2000 System picture2000 System picture2000 	c them. Part		Screen Jser screen1:[000 窗口1:[00001]Pag 窗口1:[00001]Pag 窗口1:[00001]Pag	01) ge1 Recipe T ge1 Function ge1 Value ing ge1 Value ing 00

When checking User Screen 1, it represents checking all the controls in User Screen 1, and unchecking is the same; When you only want to monitor the operation of a certain control in screen 1, simply select the control you want to monitor.

emine regime infine operations (in or both match or both match or burked by clicking on the blue font "Control Address Information" in the bottom right corner PSW0 as the first address will control different states), which can be viewed by clicking on the blue font "Control Address Information" in the bottom right corner Prompt CommandPSW0 1. Export operation records to USB flash disk 2. The value of 0-100 indicates the progress. exait/PSW2 0. Data export 1. Data export succeeded 2. The export device does not exist 2. When inputting 4 and 6 to the command register, the database can be controlled to be exported to a USB drive, and the exported flie format is xjdb. The xjdb to CSV tool can be opened by double clicking on the software root directory 'Tool/XJDbTool/XJDbTool.exe, which is set as the dafatl opening method for xjdb. After opening, enter the path name of the CSV and click "Export" to convert the xjdb format flit to a CSV format flit. save setting Set the storage address, which can be specified by selecting HMI, USB flash drive, or register I is successed or so to to save to the him: software directory Temp/Run/db/history (2) If you choose to save to the him: software directory Temp/Run/db/history, the saved file cannot be directly opened for viewi	control address	Set the register for HMI export control (if set to PSW0, three consecutive addresses with
blue font "Control Address Information" in the bottom right corner Prompt Command:PSW0 1. Export operation records to USB flash disk 2. Data export 1. The value of 0-100 indicates the progress. resultPSW2 0. Data export 1. Data export device does not exist Note: 1. This function only takes effect when the storage location is selected as HMI or when "register specified storage location" is specified as HMI. 2. When inputting 4 and 6 to the command register, the database can be controlled to be exported to a USB drive, and the exported file format is xjdb. The xjdb to CSV tool can be operad by double clicking on the software root directory Tool/XDDTool-XP. Save setting Set the storage address, which can be specified by selecting HMI, USB flash drive, or register Swe the storage address, which can be specified by selectory Temp/Run/Mothstory, the saved file cannot be directly opened for viewing. To view it, you need to export to a USB drive and then view the exported file in the path saved to the USB drive and then view the exported file in the path saved to the USB drive and then view the register	control address	
Prompt Command-PSW0 1. Export operation records to USB flash disk Seport operation records to USB flash disk speed of progress.PSW1 1. The value of 0-100 indicates the progress, result/PSW2 0. Data export 1. Data export device does not exist Note: 1. This function only takes effect when the storage location is selected as HMI or when "register specified storage location" is specified as HMI. 2. When inputting 4 and 6 to the command register, the database can be controlled to be exported to a USB drive, and the exported file format is xidb. The xidb to CSV tool can be opened by double clicking on the software root directory'Tool/XJDbTool-XZ		
Command:PSW0 1. Export operation records to USB flash disk 2. Export operation records to USB flash disk speed of progress:PSW1 1. The value of 0-100 indicates the progress, result:PSW2 0. Data export 1. Data export device does not exist Note: 1. This function only takes effect when the storage location is selected as HMI or when "register specified storage location" is specified as HMI. 2. When inputting 4 and 6 to the command register, the database can be controlled to be exported to a USB drive, and the exported file format is xjdb. The xjdb to CSV tool can be opened by double clicking on the software root directory VToolXJDbToolXJDbTool.exe, which is set as the default opening method for xjdb. After opening, enter the path name of the CSV and click "Export" to convert the xjdb format file. save setting Set the storage address, which can be specified by selecting HML USB flash drive, or register Sw When simulating, the storage location displayed for the operation record is: (1) Save to USB drive: Software directory: Temp/Run/storage/udisk/history (2) If you choose to save to the hmi: software directory Temp/Run/db/history, the saved file cannot be directly opened for viewing. To view it, you need to export to a USB drive and then view the exported file in the path saved to the USB drive and the view the exported file in the path saved to the USB drive and the view the exported file in the path saved to the USB drive and the noteer the storage, and the system will store data with this name. file Set t		
1. Export operation records to USB flash disk 2. Export operation record to USB flash disk speed of progress/PSW1 1.The value of 0-100 indicates the progress, result/PSW2 0. Data export 1. Data export device does not exist Note: 1. This function only takes effect when the storage location is selected as HMI or when "register specified storage location" is specified as HMI. 2. When inputting 4 and 6 to the command register, the database can be controlled to be exported to a USB drive, and the exported file format is xjdb. The xjdb to CSV tool can be opened by double clicking on the software root directory VioofXJDbToolXJDbTool.exe, which is set as the default opening method for xjdb. After opening, enter the path name of the CSV and click "Export" to convert the xjdb format file to a CSV format file. save setting Set the storage address, which can be specified by selecting HMI, USB flash drive, or register ib cannot be directly opened for viewing. To view it, you need to export to a USB drive: and then view the exported file in the path saved to the USB drive file Set the file name is fixed, which is the name set in the file name (the file name can support up to 200 characters) date The stored file name is fixed, which is the name set in the file name (the file name can support up to 200 characters) date The stored file name is fixed, which is the name, it is necessary to select a		
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Maximum storage capacity 65535 pieces insufficient HMI Set the status to stop saving or overwriting old records when storage space is insufficient space After checking, stop saving data when storage space is insufficient records After checking, stop saving data when storage space is insufficient		
insufficient HMI Set the status to stop saving or overwriting old records when storage space is insufficient space stop saving records After checking, stop saving data when storage space is insufficient	storage capacity	
space Stop saving records	·	
records		Set the status to stop saving or overwriting old records when storage space is insufficient
	stop saving	After checking, stop saving data when storage space is insufficient
overwrite old After checking, when the storage space is insufficient, it will continue to save and overwrite	records	
	overwrite old	After checking, when the storage space is insufficient, it will continue to save and overwrite

records the old records

Note: Whether you choose "fixed file name" or "dynamically specified file name" for the saved file name, the following characters are not supported in the file name: $1/2 \approx 2 = 4$; $1 \approx 2 = 4$; $1 \approx 2 \approx 2$

4-7-2. Operation record display

1. Click on "Parts/Operation Record/Operation Record Display" icon in the menu bar or the "- Operation

Record Display "icon in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button or use the ESC key to cancel the placement. Modify the length and width of the border through the boundary point.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on "Operation Record Display" or select "Operation Record Display" and right-click to select "attributes" for attribute settings.

Basic attributes

	Op	peration record disp	olay	
Basic Attrib	Display Query S	ecurity set Location	4 7 1	
Control ID	OR0			
Descriptio	n			
Operation record sett	Operation			
– Display list				
Use	✓ Adaptive colu	mn spacing		
Select	Project	Title Title D	escription	Column spacing
✓	序号	序	3	35
~	日期	日期	归	82
~	时间	时间	时间	
~	控件ID	控件	ID	56
~	控件描述	控件推	苗述	56
	地址	地址	ıŁ 🛛	220
~	动作		动作 用户名	
✓	用户名	用户		
~	窗口	窗[56
~	操作信息	操作	息	139
Move up	Move down	Restore default		
- <mark>Orde</mark> r				
Time	Chronological	order	Reverse chr	onological order
Format	Date YY/MM/DE) v T	IM HH:MM	SS ¥
D Used for	system manageme	ent controls, user ca	nnot operat	e
on Can be u	sed to annotate the	purpose of this con	ntrol	
ecord Click on	"Operation Record	l Settings" to set th	e relevant c	ontent of the ope
	1			•p•
If the lis	t displayed in the	operation record is	in multiple	e languages, cheo

multi-language	using multiple languages is checked, a multi language setting table will be	displayed on the
muni-ianguage	right side of the title description. Clicking on it will lead to the multi language	
	interface for setting multiple languages. The use of multiple languages can b	
	chapter 5-1. Multiple languages	
adantina aalumu		vill automatically
adaptive column	After checking, the column width cannot be customized, and the software w	automatically
space	adjust it to the most suitable size based on the project screen	
select	Only when checked can it be displayed in the list	
No.	Display the sequence number of table columns	
date	Date generated during control operation	
time	Time generated during control operation	
control ID	The ID number of the control	
control	Description content of the control	
description		If you need to
address	The address of the control, which can display whether it is an internal or	adjust the order
	external address	of items, you
action	Set Word, Set ON, Set OFF, Toggle (bit reverse), Write Const Value, Write	can click the
	String, Return To Prev Window, Go To Next Window, Upload recipe,	"Move Up,
	Download recipe, Press, Release	Move Down"
user name	Do you have user privileges to log in at this time? If not logged in, it will not	button below. If
	be displayed	you want to
window	The window number where the control is manipulated	restore the
operate	Bit Set ON	default sorting,
infomation	Bit Set OFF	you can click
	Write (Initial value) ->(Input value)	"Restore
	Bit Set ON->OFF	Default
	Bit Set OFF->ON	Sorting"
	Write newVal	
	Write (Initial string) ->(Input string)	
	Window (Current page) ->(Jump to page)	
	Upload (recipe name)	
	download (recipe name)	
order	Set the information display mode and select whether the latest operation rec	cord is displayed
	before or after	1 2
chronological	According to the order in which the operation record time is generated, the fin	rst generated one
order	is displayed at the top, and the later generated one is displayed at the bottom,	•
	operation record is displayed at the bottom of the table	,
reverse	Contrary to the chronological order, the first generated operation record is	displayed at the
chronological	bottom, and the later generated operation record is displayed at the top, t	
order	operation record information is displayed at the top of the table	
time date format	set the date and time format	
time dute format	bet the date difd time format	

When using multiple languages is checked, "..." will be displayed in the bottom right corner of the title description. Clicking on it will lead to the multi language library setting interface to set multiple languages.

Display

			Operation	record displ	ay
● Text ● Multiline Text ● Multiline Text ● Multiline Fo 微致雅麗 ● General ● Co ● ● Size 12 ● Ali Middle_Center ● Size 12 ● Ali Middle_Center ● Title description ● ● Co ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	asic Attrib D	isplay Quer	y Security s	et Location	
Table title List Data Synchronize language font styles Fo 微软维黑 General ✓ Co Size 12 ✓ Ali Middle_Center ✓ Row H30 🗧 Table Background color ✓ Title description ✓ Ø Outer frame Thi ✓ Style ✓ Ø Grid Thi ✓ Style ✓	✓ Use title	- 11			
Fo 微软雅慧 General Co Size 12 Ali Middle_Center Row h 30 Table Background color Title description Background color Style V Outer frame Thi V Style V Grid Thi V Style V Grid Grid Thi V Style V Grid Grid Thi V Style	Text	O Multilina			
Fo 微软雅慧 General Co Size 12 Ali Middle_Center Row h 30 Table Background color Title description Background color Style V Outer frame Thi V Style V Grid Thi V Style V Grid Grid Thi V Style V Grid Grid Thi V Style					
Fo 微软雅慧 General Co Size 12 Ali Middle_Center Row h 30 Table Background color Title description Background color Style V Outer frame Thi V Style V Grid Thi V Style V Grid Grid Thi V Style V Grid Grid Thi V Style					
Fo 微软雅慧 General Co Size 12 Ali Middle_Center Row h 30 Table Background color Title description Background color Style V Outer frame Thi V Style V Grid Thi V Style V Grid Grid Thi V Style V Grid Grid Thi V Style					
Fo 微软雅慧 General Co Size 12 Ali Middle_Center Row h 30 Table Background color Title description Background color Style V Outer frame Thi V Style V Grid Thi V Style V Grid Grid Thi V Style V Grid Grid Thi V Style					
Fo 微软雅慧 General Co Size 12 Ali Middle_Center Row h 30 Table Background color Title description Background color Style V Outer frame Thi V Style V Grid Thi V Style V Grid Grid Thi V Style V Grid Grid Thi V Style					
Fo 微软雅慧 General Co Size 12 Ali Middle_Center Row h 30 Table Background color Title description Background color Style Image: Content of the second of the s	The second states	Contraction of the second	1	de <u>ss</u> tore of	ng ng the second se
Co Size 12 Ali Middle_Center V Size 12 Row h 30 Table Background color V Title description V V Outer frame Thi V Style V Co V Grid Thi V Style V Co V V Co V V V V V V V V V V V V V V V V V V V		List title	List Data	∐ Sγn	chronize language font styles
Ali Middle_Center V Row h30 C Table Background color V Title description V Outer frame Thi V Style V Co Grid Thi V Style V Co V V Co V Co V V CO V CO V V CO V	The second second	Į.	Y (ieneral 🗸	
Table Background color Image: Style	Co	×	Size 12		
Background color V Title description V Outer frame Thi V Style V Co Ior V Grid Thi V Style V Co	Ali Middle_C	enter 🛩		Row h30	•
Background color V Title description V Outer frame Thi V Style V Co Ior V Grid Thi V Style V Co					
Background color V Title description V Outer frame Thi V Style V Co Ior V Grid Thi V Style V Co	Tabla				
Image of the second priority				7:11- J	utut u V
Thi Style v Co v Ior v Grid Thi v Style v Co v				fitte desc.	ription *
Co Grid Thi Style V	Outer fr	ame			
lor Grid Thi Style V Co	Thi	- v	Style —	v	,
✓ Grid Thi ✓ Style ✓		×			
Thi v Style v					
	California (
	Thi	- v	Style —		,
				5.12 - 5 6	

use title	text	Set the name of the operation record display header		
	multiling	After checking, the header content can be set to multiple languages (refer to 5-1		
		for details on using multiple languages)		
synchronize la	nguage font styles	If unchecked, the title font and list font can be set separately		
		If checked, the two fonts, colors, sizes, and alignment remain consistent		
f	font	Font, color, size, and alignment can be set		
table	background	Set the background color of the table		
	color			
	title background	Set the background color of the table title		
	color			
	outer frame	The thickness, style, and color of the outer frame can be set, and will only be		
		displayed when checked		
	grid	The thickness, style, and color of the grid can be set, and will only be displayed		
		when checked		



When "synchronize language font styles" is checked, all fonts display the title font.

Query

1 Export

	Accord to the			
Basic Attribute	Display	Query	Security setting	Location
Picture	PSB0	Export conditio	ON->OFF ~	Export Format

Select **Picture** to use the picture export function. Meets export conditions, export format is PNG.

2 Query

Basic Attribute	Display	Query	Security setting	Location		
Picture	PSB0	Export conditio	ON->OFF ~	Export Format	PNG	~
🗹 Enable ope	eration recor	d query				
Query	by date		O Query by time	6		
⊖ Registe	er					
- Query contr	ol					
PSB0						
- Query date						
	, Decer ∽	Registe				

The information found will be displayed in the operation record display table. If you need to use this function, check the "Enable operation record query" function.

There are two query methods: query by date and query by time period. These two query methods can be freely selected by users or dynamically specified through registers, as follows:

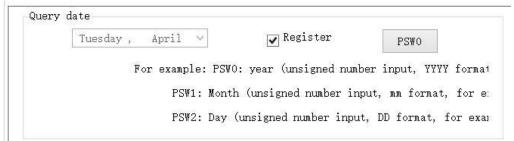
query control Set an address, and when set to that address, the query function will be triggered, and the query results will be displayed in the table

(1) Query by Date

Entering the date to be queried will filter out all operation record information under this date and display it in the table.

~	PSB0		
uery	date		
	Tuesday , April	10023	🥅 Register

You can also choose "Register" to dynamically set the query address. As shown in the following figure, setting a first address, such as PSW0, will occupy a total of three addresses from PSW0 to PSW2. PSW0 represents year, PSW1 represents month, and PSW2 represents day, all of which are single word unsigned numbers. For example, PSW0=2021, PSW1=5, and PSW2=29, the operation record information for May 29, 2021 will be queried.



(2) Query by time period

Enter the start and end times to be queried in the specified address, set the query control address, and display all information filtered out during this time period in the table.

	Second
To Tuesday, April V 11 Hou 44 Mim 32	Second

Similarly, register control can also be used. After setting the first address, 12 register addresses, including the first address, will be occupied. The first 6 addresses represent the year, month, day, hour, minute, and second of the start time, and the last 6 addresses represent the year, month, day, hour, minute, and second of the end time. The format is consistent with manual settings.

T T OUL	Tuesday ,	April	11	Hou 44	Minute	Second
To	Tuesday ,	April	/ 11	Hou 44	Mim 32	Second
	2000 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 -		in the second second		22	
		✓ R	egister	PSW		
		Exam	ple: PSW	0 PSW5: from	time year, 1	nonth, day

(3) Register Control Query Method

Use registers to dynamically specify the query method. A register value of 0 indicates querying by date, and a value of 1 indicates querying by time period. Users can choose according to their own needs.

■ Security setting

Basic Attrib Disr	olay	Query Securi	ty set Locat	ion		
- Display contro	I					
🗹 Enable						
When	隐藏	~				
Devic	本地设备			~	Settin	
Addre	PSB	~ ()			
Enable	Sta ON	v [Indirect			
- User permissio	n					
🔲 Hide this	compone	ent when the us	er has no pe	rmissi	on scope	
User perr range	nission	None	3	~		

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-8. Hire purchase

1. Function enter

Click Menu bar-Tool-Hire purchase or click Hire purchase in the tool bar.

2. Function introduction

Implement installment payment for equipment and perform lock and encryption processing on the equipment. The installment configuration is completely user-defined, including the number of installment periods, the expiration date of each installment, and the password for each installment. Configuration information needs to be maintained by customers themselves, and this feature has the advantages of free configuration and high security.

4-8-1. Static installment payment

		Hire purchase		
Enable static Enter admin	Alleria	istrator ord	8	
Period	Start time	End time	Description	Password
Period	1 4/18/2023 2:45 PM	4/19/2023 2:45 PM		12345678
Period	2 4/19/2023 2:45 PM	4/20/2023 2:45 PM		12345678
	nic installment			
Installmen key Dynamic	t	ge Dynamic super		Generate dynamic
Installmen	t			

- Check "Enable static installment ", add the number of installment periods, set the start time, end time, description, and password.
- Enter administrator password to cancel installment payment: If this option is checked in the project, set the administrator password and download it. In any installment payment pop-up window that pops up, enter the custom administrator password, which will cancel subsequent installment payments and close the window to enter the project operation page. Passwords support letters (case sensitive) and numbers, with a password length limit of 10 characters.

	Batch add		×
Start date	2023/04/20 14:45		
Interval time	0 A O I A A		M in
Add Periods	1 P e		
	Confirm	Cancel	

- Add: Click "Add" and add an installment payment setting in order at the bottom of the table. You can set the start and end dates, time, and password yourself.
- Batch Add: Click "Batch Add" to set multiple installment payments (up to 60 installments). Set the start time, date, interval time, and number of batch copies independently. Click OK and it will be displayed below. You can set the start and end date, time, and password by yourself.
- The time supports selection and input, and the description can be edited. The default password is 12345678. The password supports letters (case sensitive) and numbers, and the length of the password is 20 characters, which can be modified. The maximum number of sessions is 60, and the end time of the previous session defaults to the start time of the following session. All start and end times can be modified.
- Delete: Click a row in the installment payment table, select it with the cursor, and then click "Delete"

to delete the installment payment

■ Delete All: Click 'Delete All' to clear all installment payment settings.

HMI display:

请输入分期密码或超级管理员密码:						
密码						
第3期: 2022-7-6 14:44:0 2022-7-6 1	14:46:0					
	确认					
	Virtu	ial Ke	yboa	rd		
	Esc	1	2	3	4	

When the start time of installment payment is reached, a pop-up window will pop up in the upper right corner of the HMI. At this time, only the installment payment password can be entered, and the rest of the screen is not clickable; Enter the current password in the pop-up window to use it normally until the start date of the next installment. If the password is entered incorrectly, it will prompt for an incorrect password input, and you must re-enter the correct password to use it properly.

ð

The difference between an administrator password and a regular installment password is:

1. The administrator password means that regardless of the installment payment period, simply entering the "administrator password" will cancel the installment payment function. The regular installment password is only used to confirm the current installment payment, and subsequent installments will still pop up at the set start time.

2. Password settings for both: The password can have up to 10 digits and supports letters (uppercase and lowercase) and numbers.

4-8-2. Dynamic installment payment

Enable dynamic installment

			Hire purchase		
En-	able static inst	allment			
En En	ter administral	or Admir passw	nistrator ord	ap	
١dd	Batch add De				
	Period	Start time	End time	Description	Password
	Period 1	4/18/2023 2:45 PM	4/19/2023 2:45 PM		12345678
	Period 2	4/19/2023 2:45 PM	4/20/2023 2:45 PM		12345678
	able dynamic i	nstallment			
1	Installment key	nstallment			Generate dynamic
1	Installment	nstallment	Dynamic super password		

Only by checking this option can dynamic installment payments be set.

installment key	The password includes uppercase and lowercase letters and numbers, and the length does not
	exceed 10 digits; You can also enter the installment key in the "Generate dynamic" interface,
	and the passwords in both places are synchronized
dynamic	The password is automatically generated by the system. The dynamic password on this
installment	interface can only be viewed and copied, and cannot be edited
dynamic super	The password is automatically generated by the system, and the dynamic super password on
password	this interface can only be viewed and copied, and cannot be edited

The dynamic password and dynamic super password are both 32-bit. When copying the password, manually select all with the mouse and copy it when the password is visible.

■ Generate dynamic password

Click "generate dynamic" to enter dynamic installment password interface.

			Hire purchase			×	
	Enable static installment						
	Enter administrator	Administrator		0			
	T & R R	Dynamic	password gener	ation			
	Add Batch add Delete Delete all Period Start t	Device ID			Password		
	Pendu Startt	Installment key			Password		
		Start time of installment	2023/04/18 00:00				
		End time of	2023/05/18 00:00				
		O Duration of	30				
		Dynamic		1			
		Dynamic]	an -			
	Enable dynamic installment Installment		Confirm	Cancel	Generate		
	key Dynamic	Dv	namic super	concer	dynamic		
	Installment		ssword				
				Determine	Cancel Applicat	ion	
device ID	Each screen only has	s a unique de	vice ID, and	there are thr	ree ways to query t	he screen ID;	
					THE STREET		
	1. click	on the lower	r right corner	of HMI sci	een, select "	", it	will
	pop up a wi	ndow, the rec	l color area is	s the device	ID.		
	设备信息						
	Hmi版本: 1.1.3.2210	06					
	系统版本: 1.1.3.2210	08					
	硬件版本: HV2						
	设备IP: 172.31.6.2	28					
	设备ID: 022-009-01	6-0851-0036					
	2. check the II) on the prod	uct label.				
	FouchWin To	ouch Panel					
	MODEL:TS3-700-E						
	POWER:DC24V 5W	(H1/V1.0.0)					
	ID: 256-135-149-D518-	4141					
	CX132147504310						
	WUXI XINJE ELECTRIC	CO., LTD.					
	3. When down	loading sala	ct the LANA	lownload an	d scan the IP inter	face to find the	
		vice ID based					
	TE (PC - + HMI)		× 以太网设备信息查询		11.099 11.099		
	通信设置		网络宫称	IP地址	设备10	1011 I	
	连接方式 局域网 ④ 设备IP查找 172.31.4 150	-	Hmi Hmi	172.11.6.228 172.31.6.230	022-009-016-0856-0038	TS3-700-E TS3-700-E	
	〇 设备ID直线 022-001016-0851-0036	v	Hmi Heni	172.31.7.139 172.31.6.150	022-010-010-0856-0046 022-009-007-0901-0029	TS5-700-E TS5-700-E	
	13년P 通信/6	it.	Hmi Hmi	172.31.7.141 172.31.1.53	022-010-010-0958-0007 022-009-027-1844-0001	TS5-700-E TS3-700-E	
	下数密码 123456 ④		Heni Heni	172.31.6.115 172.31.0.110	022-009-008-1438-0004 022-009-006-1659-0058	T\$5-700-£ T\$5-700-E	
	□ 允许工程上停 □ 用户自应义开机凿器 □ 使用默认开机器)面:					
	Li terswittige						

installment key The password includes uppercase and lowercase letters and numbers, and the length does not

	exceed 10 digits; You can also enter the installment key in the "installment payment" interface,
	and the passwords in both places are synchronized
start time of	Set the start time for the required installment encryption
installment	
end time of	Set the end time for the required installment encryption
installment	
duration of	Set the required duration for installment encryption
installment	
dynamic	The password is automatically generated by the system, and the dynamic installment password
password	on this interface can only be viewed and cannot be copied or edited.
	Click on "Dynamic password" and the dynamic installment password will be automatically
	generated. This password is used for decryption during the current period and is associated with
	the device ID, installment key, and time (start time, end time/duration). As long as one of the
	parameters is modified, you need to click on "Dynamic Password" again. The password will be
	updated. If no parameters are modified, the password will not be updated.
dynamic super	The password is automatically generated by the system, and the dynamic super password on this
password	interface can only be viewed and cannot be copied or edited.
	Click on 'Dynamic Super Password' and the dynamic super password will be automatically
	generated. This password can lift all installment restrictions and has the highest authority to lift
	them. And it is only related to the device ID and installment key, and is not related to the
	installment time. If you modify the device ID or installment key, you need to click on "Dynamic
	Super Password" again to update the password. If you do not modify any parameters, the
	password will not be updated.

In the pop-up window, enter the device ID, installment key, start time, and then select the end time or enter the duration. Entering the installment end time can automatically calculate the duration (one decimal place). Both are required items, otherwise dynamic installment passwords and dynamic super passwords cannot be successfully generated.

HMI display

When entering the installment state, the HMI automatically enters the lock interface and prompts the user to enter the corresponding password.

If the installment password is entered correctly, it will prompt the remaining available days (which is consistent with the installment duration), and the system screen can continue to use normally within the duration range.

If the super password is entered correctly, it will prompt for permanent use; If the password is entered incorrectly, click OK and prompt "Incorrect password input".

If no password has been entered, click OK and a prompt will appear stating 'Password input is blank'. And the current interface window cannot be closed.

खुन्छन्तुः				0	1										
				0	1										
	[确认	-												
		Virtual K		rd											
	(99)	Esc 1	z	3	4	5	6	7	8	9	0	-	-	Back	spa
		Tab	q	w		5	1	y .			-	a	P	1	Γ
			1	<u> </u>	Τ.	f	9	6	T	F	k	4	12	1.8	1
	(m) (Caps	a	5	d		1.1		112		_				
	00	ll Caps Shift	a Z	×	c	v	b	n	1,	7			1	En	ter

4-9. Special component

4-9-1. Timer

1. Click Parts/industry/timer or the icon in the device bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button, or use the ESC key to cancel the placement.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on "Timer" or select "Timer" and right-click to select "attributes" for attribute settings.

Basic attributes

		Timer	
ic AttribSe	curity se Location		
Cont	rol ID TM0		
Desc	ription		
Time	e unit: 0.1 secc v		
	Delay 1 Executio		
	· ,	in cycle	
Timer e Devic	xecution flag bit 本地设备	✓ Settin	
Addre		• Settin	
		ŧ	
Trigger	conditions		
۲	Bit state change)Word value cl	na Screen start	
Trigg	ger ac PSB0		
	Jel ac PSBU	Trigger co Rising e V	
End cor		Trigger co Rising e 👻	iched ange
End cor ()	ndition Stop when screen is clos Stop		iched ange
End cor Preset t	ndition Stop when screen is clos Stop	when the preset time is rea	iched ange
End cor Preset t	ndition Stop when screen is clos Stop		iched ange
End cor Preset t	ndition Stop when screen is clos Stop	when the preset time is rea	iched ange
End cor Preset t	idition Stop when screen is clos Stop ime Constant	when the preset time is rea	iched ange
End cor Preset t	idition Stop when screen is clos Stop ime Constant	when the preset time is rea	iched ange
End cor Preset t 1	idition Stop when screen is clos Stop ime Constant	• when the preset time is rea	iched ange
End cor Preset t 1 Tir	ndition Stop when screen is clos Stop ime Constant mer arrival preset time no	when the preset time is rea	
End cor Preset t 1 Tir Tir	ndition Stop when screen is clos Stop ime Constant mer arrival preset time no PSI ne counte PSW0	O Specified by register	
End cor Preset t 1 Tir Tir	ndition Stop when screen is clos Stop ime Constant mer arrival preset time no	O Specified by register	
End cor Preset t 1 Tir Tir	ndition Stop when screen is clos Stop ime Constant mer arrival preset time no PSI ne counte PSW0	O Specified by register	

control ID	Used for system management controls, user cannot operate
description	Can be used to annotate the purpose of this control
time unit	The minimum unit is 0.1 seconds, seconds or minutes
delay/execution cycle	After setting, the timer will only start executing after the set cycle time is
	executed when the trigger conditions for the timer are met
timer execution flag bit	When executing, the target coil lights up and goes out after the execution is
	completed
device	The device port currently communicating with
address	Set target coil number
setting	Click "Settings" to enter the address setting interface. This interface allows
	you to set the use of system registers and user-defined labels. You can click
	on the address label library or the project tree - library - address label library
	below to set the labels used (refer to 5-2 Address Label Library for the use of
	address label library and user-defined labels)

		Address
		Device 本地设备 v Statio 0 Address PSB v User defined label
		type Image: 0 Address 0 Address [range: 0 - 9999] format Image: 0 - 9999]
		Address Label Determine Cancel Application
trigger conditions	bit state change	When the bit state of the coil that triggers the address is either the rising or falling edge, timing begins Trigger conditions
	word value change	Start timing when the data in the trigger address register changes (if "equal value" is checked, it means timing starts when the data in the trigger address register is equal to the set value) Trigger conditions O Bit state change) Word value chao Screen start Trigger ac PSW0 Image: Contract of the set value start Trigger ac PSW0
	screen start	Start timing when the screen where the timer is located starts Trigger conditions O Bit state change) Word value cha Screen start
	screen end	When the screen where the timer is located is closed, the execution flag bit lights up
end condition	stop when screen is closed	Stop timing when the screen where the timer is located is closed
	stop when the preset time is reached	Stop timing when the timer reaches the preset time
preset time	bit state changed constant	Stop timing when the bit state of the coil is either the rising or falling edge You can directly select a number and change it, or you can click to change the time
	specified by register	The number in the register is the preset time

	Preset time Constant O Specified by register Read address Devic 本地设备 V Settin Addre PSW V 0 Data Word V Unsignec V type Indirect
timer arrival preset time notice	Specify a coil, and when the timer reaches the preset time, the coil is
	ON/OFF
time counted	Counted time can be displayed by specifying a register that displays the
	real-time cumulative time after triggering
reset bit	Specify a coil. When the set trigger condition (ON/OFF) is met, the time will
	be reset, the arrival notification will be reset, and all status bits will return to
	their default state. To start the timer, a new trigger is required

Security setting

Enable control I Enable Devic 本地设备 V Settin Addre PSB V 0
Addre PSB V 0
Enable Sta ON V Indirect
ble control Can be set with bit restrictions (customizable enabled state), and only when

Can be set with bit restrictions (customizable enabled state), and only when the enable conditions are met can the component be used normally (as shown in the figure above: when PSB0 is in the ON state and the trigger conditions are met, the component can be used; if PSB0 is in the OFF state, even if the trigger condition is met, the component is still unavailable)

Location

Same to chapter 4-1-1 straight line location part. (Cannot make size modifications or move horizontally or vertically)

4-9-2. Scrolling text

To achieve the effect of trotting horse lamp for the text:

1. Click on the "Parts/Text/Scrolling Text" icon in the menu bar or the icon in the special component bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button or use the ESC key to cancel the placement. Drag the boundary point to modify the length and width of the border.

2. When setting attributes, you can set them in the attribute box that pops up when placing components. You can also double-click on "Scrolling Text" or select "Scrolling Text" and right-click to select "attributes" for attribute settings.

Basic attributes

	Esecurity se Locat	ion
Cont	rol ID SC1	
Deco	rintion	
Di	splay control	Show contents
	ways show 🗡	
1 Co	ntrolle PSR0	
2 Ah	ways show 🖂	
Add	Delete	Move up Move
Font	Delete 軟雅黑	Move up Move V General V Size 12 V
Font Fo _信	☆ 新発展	✓ General ✓
Font Fo 備 Co 面 Scroll Messag	数数 如 ↓	✓ General ✓ Size 12 ✓

control ID	Used for system management controls, user cannot operate
description	Can be used to annotate the purpose of this control
display control	include always show and controlled by coil
always show	Right click and select the item to be displayed directly in the displayed content

		Always show Y Thank you for your kindness
		Always show Thank you for your kindness Controlle PSR0
		Text string
		Tevt Multiling
		Thank you for your <mark>kin</mark> dness
		Determine Cancel Application
contro	lled by coil	To set the address of the triggering coil first, then right-click and select the item to be displayed
		in the displayed content
		Display control Show contents O Always show Y Thank you for your kindness
		Controlle PSR0 Thank you for your kindness
		2 Always show Y
		Register assignment
		Address Devic 本地设备 V Settin
		Addre psg v 0
		1-22
		O Positive logic O Negative logic
		Determine Cancel Application
show	v contents	Right click on the displayed content to copy it, create a new text string, create a new variable
		text, create a new data display, and delete the displayed content. Click/double-click on the
		displayed content to edit it again.
		Display control Show contents
		0 Always show V Thank Copy content
		1 Controlle PSR0 Thanky New Text String
		2 Always show V New Variable text
		New Data Display
		Delete
oper	rate item	Can add, delete, move up, and down display controls and content
	font	Can change the font, color, size of scrolling text, and set whether scrolling text is bold or italic
scroll	message	Set the distance interval between each displayed content, in pixels
	space	
	scroll	Set the text scrolling speed to a few pixels per 0.1s (100ms), meaning that the larger the value,
	speed	the faster the scrolling speed
b	order	Set whether to display borders, as well as the thickness, style, and color of the borders
	fill	Set whether the background of scrolling text is filled and the fill color
		Text string refers to the use of static text string in chapter 4-2-1.

The use of text string refers to the use of static text string in chapter 4-2-1.

The use of variable text refers to the use of dynamic text in chapter 4-2-2.

The use of data display refers to the use of data display in chapter 4-2-4.

Security setting

Display contro			
When	隠藏・		
Devic	本地设备	~	Settin
Addre	PSB v	0	
Enable	Sta ON V	Indirect	
User permissio	on		

Same to chapter 4-1-1 straight line security setting part.

Location

Same to chapter 4-1-1 straight line location part.

4-9-3. Camera

TS5 series HMI support for connecting cameras and playing monitoring images:

Click on the "Parts/Multimedia" menu bar or the "Camera Play " icon in the special parts bar of the control window, move the cursor to the screen, click the left mouse button to place, click the right mouse button or use the ESC key to cancel the placement. Modify the border length and width by dragging boundary points.
 When setting attributes, you can set them in the attribute box that pops up when placing components, or double-click "Camera Play" or select "Camera Play" and right-click to select "Properties" for attribute settings.

Basic property

Basic Attribute	Security settin Location	
Control	ID CP0	
Descript	ion	
	Webcam	
Path	Webcam	
Path	Webcam rtsp://admin:123@192.168.1.1:554/h264/ch1/main/av_	stream
Path	rtsp://admin:123@192.168.1.1:554/h264/ch1/main/av	_stream
Path *Example:	rtsp://admin:123@192.168.1.1:554/h264/ch1/main/av	
Path *Example:	rtsp://admin:123@192.168.1.1:554/h264/ch1/main/av_ ntrol Enable Enable dynamic RTSP	
Path *Example: ☑ Image co	rtsp://admin:123@192.168.1.1:554/h264/ch1/main/av_ ntrol Enable Enable dynamic RTSP	

Control ID	Used for system management controls, user cannot operate.
Description	Can be used to annotate the purpose of this control.
Webcam	The default is checked and cannot be cancelled. Currently, only network cameras are
	supported.
Path	Set the RTSP address for the network camera.
	Example of address format: rtsp://admin:123@192.168.1.1:554/h264/ch1/main/av stream,
	detailed as follows:
	Rtsp://- Address prefix, fixed format, can be uppercase or lowercase
	Admin - Connect the camera username, default to admin
	:- User name and password connectors
	123- Password for connecting the camera, default to verification code
	192.168.1.1- IP address of the camera
	:554- Camera RTSP address port number, default to 554
	h264- Encoding type of camera, only supports h264
	ch1- Channel number of the camera
	main - The stream type of the camera; Main: Main code stream; Sub: Auxiliary code stream
	Av_Stream - Fixed Format
Image control	The playback control of the monitoring screen only has start/stop signals by default, and the
	address can be set below, with PSW0 as the default. PSW0=0 stops playing, PSW0=1 starts
	playing. When stopping playback, the camera playback control area is displayed as blank.
	You can select Enable pause and Enable Dynamic RTSP according to your usage needs.
Enable pause	If you need to add a pause signal, you can check this option. After checking it, use the image
	address+1 as the address to enable pause control. If PSW1=1, pause playback, and PSW1=0
	resumes playback.
	☑ Image control
	Enable Enable dynamic RTSP
	Device Vector Settings Address PSW 0
	Data Word V BCD V Indirect
	Start/stop import: PSW0
	Pause: PSW1

Enable dynamic RTSP	Set whether to dynamically specify RTSP addresses	
	Enable Enable Enable	
	Device Local Device V Settings	
	Address PSW ~ 0	
	Data Word V BCD V Indirect	
	Start/stop import: PSW0	
	Pause: PSW1	
	RTSP: PSW2 (64Word)	
	After checking, use the image address+2 as the RTSP header address, occupying	a total of 64
	vords.	

The RTSP addresses of different brands of cameras may vary. Please refer to the instructions provided by the camera manufacturer for accuracy.

1. User name, password

The default username for the camera factory is admin, and the password is a verification code, which can be viewed through the camera body label.



2. IP address

Open the Ezviz Cloud Studio software, click on [Device Management] in the bottom left corner, find the camera you want to view, and click on [Network Parameter Configuration] to view the camera IP address.

CZVIZ #6			() 情愛示 菜单	- = ×
0 0 26 90	设备管理		×	@ 意见留言
根本: 役争名 (0)	視索到的局域网设备			🖸 展示窗口序号
* 我的设备(0) 您没有登录,请?	CS-C6CN-1C2WF-D(G75404997)	修政网络参数	₩)\$F	
。 本地设置	<u>またの</u> またの 本町1時作 同係参数配置 南级配置	IP地址 10 · 100 · 19 · 214 网关 10 · 100 · 19 · 255 子阿掩码 255 · 255 · 255 · 0		
		建立		
🕲 设备管理	十張加 西览 回放		1 4 9 16	25 🗄 🖾

3. RTSP port

Open the Ezviz Cloud Studio software, click on [Device Management] in the bottom left corner, find the camera you want to view, click on [Advanced Configuration], and in [Network] - [Common], you can view the camera's RTSP address and port number.

in detains		西程間置
皆管理	土 ⑥ 系统	配置设备的网络参数
E本判約商目研究員 CS-C6CN-1C2WF-D(G75404997) していたいでは、 またいのでは、 またいのでは、 またいのでは、 日本知識作: 同係手数変更 一面求配置	 ● KP PSK ● PAT ● NAT ● WiFi ● 重石云 ● 金石云 ● 金石云 ● 金石云 ● 金田云 ● 金田 ● 金田 ● 金田 ● 金田 ● 金田 ● 金田 	時株美型 100/000/1000/16遺金 ♥ ♥ 自切原取 IPV4批 10.100.19.214 指码批(IPV4) 255.255.5.5 防洗批(IPV4) 255.255.5 防洗批(IPV4) 10.180.19.254 IPV6版式 腔由公告 ♥ IPV6版式 腔由公告 ♥ IPV6版式 co97.69.24.88.54 MTU(D)49) 1500 そ始近い 0.0.0 HTTF常口号 80

4. Channel, stream type, and encoding type (please refer to this diagram for setting up the Ezviz cloud) Still following the advanced configuration path from the previous step, switch to Image Video Audio to view the camera's channel, stream type, resolution, video frame rate, and encoding type.

		B RRE		_		×
± ℃系统 配置监控	2点的图像)	质量、分辨率)	及其他压缩参数	14		
二 🗟 网络 监控点		通道 1	*			
② 常用 視頻						
W NAT	码流类型:	主码流	~	视频类型	夏合流	~
 Wi-Fi ② 高级设置 	码率类型:	变码案	~	码率上限:	1024 Kbps 👻	
● 同X0CL ◎ 萤石云	图像质量:	中等	Ŷ	分辨室	4CIF(704*576)	v
● 土 © 存储	帧类型:	P	~	视频帧率	15fps	v .
土 🚳 事件		60	\$	音频编码类型	AAC	U
🛨 🚳 前端参数	编码类型:	STD_H264	~			
二 @ 图像 全天表	象像文件大小:	10.0G				
○ 換音频						(
The second se	音频输入类型:	Mic In	~	输入音量:		
· 图像显示	输出音量:		-0			
夏刮到	r T					保存
8414						148/17

5. Based on all the configuration information, it can be concluded that the RTSP address of the Ezviz camera used in this example is rtsp://admin:KPEBID@10.100.19.214:554/h264/ch1/main/av stream. You can directly input this address into the camera playback control for monitoring.

Security setting

ty setting Locati				
	U.I.			
lide v				
ocal Device			~	Settings
SB	\sim	0		
DN ~	1	Indirect		
ponent when the	user has	no permissio	n scope	
	o recenterationalitate		NUCCESSION INCOME	
Permission		×		
	ocal Device SB DN ~	ocal Device SB ~ N ~ ponent when the user has	ocal Device SB V 0 Indirect ponent when the user has no permissio	ocal Device SB DN Indirect Inponent when the user has no permission scope

Same as chapter 4-1-1. Straight line safety setting section.

Location

Same as chapter 4-1-1. Straight line location part.

5. Library description

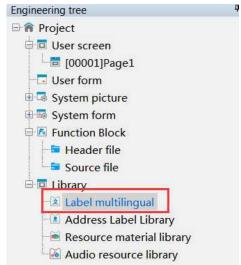
5-1. Label multilingual

5-1-1. Label multilingual introduction

When the text content of a component requires the display of multiple languages, programmers can establish the content of a multilingual tag library according to actual needs, and support the display of text in 8 different languages simultaneously.

In addition to using a multilingual tag library, it is also necessary to cooperate with the use of the system address "multilingual switching". The effective setting range for "multilingual switching" is 0-7, and different data corresponds to the desired language type to be displayed. The following is an example of using indicator buttons to illustrate how to use multiple languages.

When multiple languages need to be used in engineering documents, it is necessary to first establish a multilingual table and then select the desired label from it. Double click on the project tree library - label - multi language icon to enter the following interface.



		Labe	multilingual					×
Label Multiling		e a tap Delete all Add stat	us Deleted state	Copy Paste	Import Ex	ja port		
No. Label name	Number State	Language 1 Language :	2 Language 3	Language 4	Language 5	Language 6	Language 7	Language (
					Dete	rmine	Cancel A	pplication

Label multilingualism is divided into label libraries and multilingual tables. Label libraries are suitable for multi-state components, such as indicator lights that turn on or off two states, indicator buttons, buttons, or

multi-state indicator lights for multiple states, multi-state buttons, etc. Multilingual tables are suitable for components with only a single state, such as static text, dynamic text, data tables, etc.

5-1-2. Label library

	No.	Label name	Number	State	Language 1	Language 2	Language 3	Language 4	Language 5	Language 6	Language 7	Language							
	1	label_1	4	0	Text1				1	1000-1000-									
				1	Text1														
				2	Text1														
				3	Text1														
	2	label_2	3	0	Text1														
											1	Text1							
				2	Text1														
>		label 3			Textil														
										ermine (Cancel A	pplication							

search	Search for the set language and quickly locate the line
add label	add a label
delete label	Delete selected labels
delete all	Delete all labels
add status	Add a state to a certain label (for example, the indicator light has two states, state 0 and
	state 1. Here, two states need to be added, and the text of the set state corresponds to each
	other)
delete status	Delete selected status
сору	Copy the selected row
paste	Paste a copied line
import	Import Label Library Table
export	Export Label Library Table

Operation steps

(1) Click to add a label to define the name, quantity, status, and related language of the text label (click on the drop-down list after the status to set the text content in different states).

	NewLabel		NewLabel
Label name	label_1	Label	label_1
Status Quantity	2	Status Quantity	Z 📮
State		State	
Language 1	OFF	Language 1	ON
Language 2	off	Language 2	on
Language 3		Language 3	
Language 4		Language 4	
Language 5		Language 5	
Language 6		Language 6	
Language 7		Language 7	
Language 8		Language 8	
	Confirm		Confirm

(2) After clicking OK, it will be displayed in the table and can be modified directly in the table. (Double click to bring up the settings bar in the first step, and click below the language to directly modify the text)

j.	abel	Multiling	3			Label	nultilingual					2
					a tap Delete	all Add status	Deleted state	e Copy Past	e Import Ex	(4 port		
1	No.	Label name	Number	State	Language 1	Language 2	Language 3	Language 4	Language 5	Language 6	Language 7	Languag
	1	label_1	2	0	OFF	off						
				1	ON	on						

(3) click determine to save the settings.

5-1-3. Label table

		ble Delete					
(Add Delete De	Elete all Copy Pas	te Import Export	C.			
Language 1	La Add ge 2	Language 3	Language 4	Language 5	Language 6	Language 7	Language 8
Text1							
Text1							
Rexit	-						
					Determi	ne Cancel	Application
	Language 1 Text1	Language 1 La Add ge 2 Text1 Text1	Language 1 La Add belete Delete all Copy Pas Language 1 La Add be 2 Language 3 Text1 Text1 Text1	Language 1 La Add Delete Delete all Copy Paste Import Export Text1 Text1	Add Delete Delete all Copy Paste Import Export Language 1 La Add be 2 Language 3 Language 4 Language 5 Text1 Text1 Text1 Text1 Text1 Text1	Add Delete Delete all Copy Paste Import Export	Add Delete all Copy Paste Import Export

delete	delete the table
search	Search for the set language and quickly locate the line
add	Add a number to the selected table
delete	Delete numbers in the selected table
delete all	Delete all numbers
сору	Copy the row containing the selected number
paste	Paste a copied line
import	Import Multilingual Table
export	Export Multilingual Table

Operation steps:

(1) Click to add a table, and the added table will be displayed in the screen, as shown in the following figure. (You can select the table you want to set from the drop-down list after the 'Table')

[ID:	* 001] : 000] : 001]	Add	table F Delete all	Delete	te Import Export	t			
No.	Language 1 Text1	Language 2	Lan	guage 3	Language 4	Language 5	Language 6	Language 7	Language 3
	Text1								
	Text1		10						
1	TEXT								

(2) Click on options such as add/delete and click under Language to directly set text.

	000]		ble Delete					
	C	Add Delete De	elete all Copy Pas	te Import Expor	t			
lo.	Language 1	Language 2	Language 3	Language 4	Language 5	Language 6	Language 7	Language &
1	Text1	66	сс	dd				
2	Text1	ЬЬ						
3	Text1							

(3) click determine to save the setting.

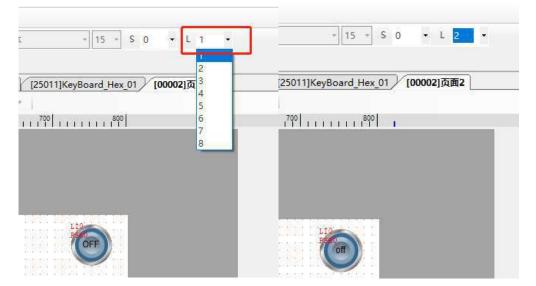
5-1-4. Examples of Multilingual Usage of Labels

1. Example of using label library (indicator light)

In the "Appearance" tab of the indicator light, follow the operating steps as shown in the figure to set it. You can click on the "Edit" font to directly jump to the label multilingual setting interface. (For the "indicator light [2]" in the fourth step, refer to the operating steps of the label library mentioned earlier.)

î	ndicator
Basic Attrib Appearances ecurity set Locat	tion
1	✓ Use pictures
	Status 1 🗸
aa	Name lamp_05_a
	category svg
	Size 60 × 60
Change appearance	More pictures
I Fill	
State Die	play text Font applied to each
O Text Multiling	Edit
✓ Enable 3	2 marches
Label label_1[2]	V Language V
4	
	аа
	-
Font	
Fo 微软雅黑 v	General 🗸
Co Size	12 ~
Ali Middle_Center V	
	Determine Cancel Application

As shown in the following figure, select multiple languages from the drop-down list after "L" (downloaded to the HMI, you can switch between multiple languages by using the values in the system register SPFW260. The input value range 0-7 corresponds to the set language 1 to language 8, and if the input value is not 0-7, language 1 will be displayed).



2. Example of using multiple language library (static text/dynamic text string)

In the "Basic attributes" tab of static text, follow the operating steps as shown in the figure to set it. You can click "Edit" font to directly jump to the label multilingual setting interface. (For the "ID: 004" in the fourth step, refer to the operating steps of a multilingual library)

	Static t	ext attribute	s	×
Basic Attrib	ation			
1 Control ID 512				
Description				
	12			
O Tevt I Enable 3 Multil	ina 🖆		Edit	
Table [ID: 004]	Y No.	1 ~	Lang Language 🗸	
4		5		
		Text1		
Font				
Fo _{微软雅黑}	~	General	~	
· ·	Size		~	
Ali Middle_Center V	4	Autofit size		
- Border Thi Borderless v	Style		101	
Co	- 10.1-1			
lor				
			Determine	Cancel
			Determine	cancer

In the "Display" tab of the dynamic text string, follow the operating steps as shown in the figure to set it. You can click "..." in the second step to directly jump to the label multilingual setting interface. (For the third and fourth steps, please refer to the operating steps of multilingual library)

Basic At	tril Display Se	curity se Location			
- Cont	ent			121	
No	. Valu	e Te	ext description strir	ig _2	Add
0	0		string0		7.00
1	1		Variable string1		Delete
				-	
					Move up
abl		- 1		Label mi	ultilingual
abl [ID	: 004] 3	Add ta			
No.		Add Delete De	B Copy Pas	te Import I	Export
	: 004] 3 Language 1 Text1				Export
	Language 1	Add Delete De	B Copy Pas	te Import I	Export

As shown in the following figure, select multiple languages from the drop-down list after "L". (Downloading to the HMI, multilingual switching through the values in the system register SPFW260. The input value range 0-7 corresponds to the set language 1 to language 8, respectively. If the input value is not 0-7, language 1 will be displayed.).

楷体 + 15 +	S 0	• L 1	÷	Σ. · Ι5 · S 0 · L 2	•
01 [25011]KeyBoard_He	x_01 / [00	0002]页面2		[25011]KeyBoard_Hex_01 [00002]页面2]
-%≥ 	0		i.	* - E 1 ⁷⁰⁰ E E E E E E 1 1 ⁸⁰⁰	- 1
			l		
静态文字1 ^{D11} ³ 多状态文字1				静态文字2 211 多状态文字2	

language 1

language 2

5-2. Address label library

5-2-1. HMI internal address

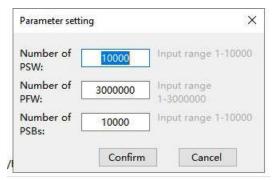
The TS series HMI has six types of internal objects: PSB, PSW, PFW, SPSB, SPSW, and SPFW.

Object type	Note
PSB	Bit object
PSW	Non power outage maintenance word object
PFW	Power outage maintenance word object
SPSB	The system used bit addresses, which belong to special addresses. For detailed
51.28	meanings, please refer to chapter 5-2-2
SPSW	The system's non power outage maintenance word address belongs to a special
SFSW	address, and its detailed meaning can be found in chapter 5-2-2
CDEW	The system's power outage maintenance word address belongs to a special
SPFW	address, and its detailed meaning can be found in chapter 5-2-2

The scope of internal objects that can be used by each model:

	TS2 series	TS3/TS5/TS5D series
PSB	0~10000	
PSW	0~10000	
PFW	0~1000000	0~3000000

The number and range of PFW data can be modified through "File/System Settings/Monitor/Parameter", and the number of PFW generally does not need to be modified; The range of initial values set in the file PFW data is greater than the number of PFWs or during configuration operation, and the number of PFWs can be modified to not be less than the number of PFWs used in the program.



5-2-2. System label

Used to display HMI system address information, making it easy for users to view and use.

			Addre	ess Label Libra	нy		
Lab	el type						
		он н. Г.					
•	System label 🔘 Custom label	O Equipment			~		
			25.				
sea	arch Add	Delete Delete all	Copy Im	port Export			
_	1				Read/Write	Power off hold	Y
-	Label name 用户权限登录标志位	Function 】 工程期以信	Address SPSB0	Address ¥	Read/write []	Power off hold	U
	用户权限取消标志位	工程默认值	SPSB1	Bit	ReadOnly	False	
	利余存储空间标志	工程默认值	SPSB2	Bit	ReadOnly	False	
	存储空间不足警告	工程默认值	SPSB3	Bit	ReadOnly	False	
	屏保状态标志	工程默认值	SPSB4	Bit	ReadOnly	False	
	背景灯状态标志	工程默认值	SPSB5	Bit	ReadOnly	False	
	Hmi自身IP文件保存标志	系统使用	SPSB6	Bit	ReadOnly	False	
	下载后第一次扫描	工程默认值	SPSB7	Bit	ReadOnly	False	
	上电后第一次扫描	工程默认值	SPSB8	Bit	ReadOnly	False	
	100ms为唐期的脉冲线圈	工程默认值	SPSB9	Bit	ReadOnly	False	
	ls为周期的脉冲线圈	工程默认值	SPSB10	Bit	ReadOnly	Folse	
	1min为周期的脉冲线圈	工程默认值	SPSB11	Bit	ReadOnly	False	
	U盘弹出失败标志	硬件相关	SPSB12	Bit	ReadOnly	False	
	常开线圈	工程默认值	SPSB13	Bit	ReadOnly	False	
	常闭线圈	工程默认值	SPSB14	Bit	ReadOnly	False	
	U盘插入标志	硬件相关	SPSB15	Bit	ReadOnly	False	
	SD卡插入标志	系统使用	SPSB16	Bit	ReadOnly	False	
	USB下载线插入标志	系统使用	SPSB17	Bit	ReadOnly	False	
	模块插入标志	硬件相关	SPSB18	Bit	ReadOnly	False	
	MQTT服务标志	通信相关	SPSB19	Bit	ReadOnly	False	
	远程登录标志	通信相关	SPSB20	Bit	ReadOnly	False	
	穿透连接标志	通信相关	SPSB21	Bit	ReadOnly	False	
	VNC服务标志	通信相关	SPSB22	Bit	ReadOnly	False	

You can search in the search area and click it to quickly query the required registers (system registers cannot be changed).

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
	User permission login flag	Local	0	SPSB	0	Bit	ReadOnly	False
	bit	device						
	User permission	Local	0	SPSB	1	Bit	ReadOnly	False
	cancellation flag bit	device						
	Remaining storage space	Local	0	SPSB	2	Bit	ReadOnly	False
		device						
	Insufficient storage space	Local	0	SPSB	3	Bit	ReadOnly	False
HMI related	warning	device						
	Screen saver status flag	Local	0	SPSB	4	Bit	ReadOnly	False
		device						
	Backlight control	Local	0	SPSB	5	Bit	ReadOnly	False
		device						
	First scan after download	Local	0	SPSB	7	Bit	ReadOnly	False
		device						
	First scan after power on	Local	0	SPSB	8	Bit	ReadOnly	False

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
		device						
	Pulse coil with a period of	Local	0	SPSB	9	Bit	ReadOnly	False
	100ms	device						
	Pulse coil with a period of 1	Local	0	SPSB	10	Bit	ReadOnly	False
	second	device						
	Pulse coil with a period of 1	Local	0	SPSB	11	Bit	ReadOnly	False
	minute	device						
	normally open coil	Local	0	SPSB	13	Bit	ReadOnly	False
		device						
	normally close coil	Local	0	SPSB	14	Bit	ReadOnly	False
		device						
	Clear alarm records	Local	0	SPSB	120	Bit	R/W	False
		device						
	HMI ID	Local	0	SPSW	0	String	ReadOnly	False
		device						
	Year -Decimal	Local	0	SPSW	16	Word	ReadOnly	False
		device						
	Month -Decimal	Local	0	SPSW	17	Word	ReadOnly	False
		device						
	Day -Decimal	Local	0	SPSW	18	Word	ReadOnly	False
		device						
	Hour -Decimal	Local	0	SPSW	19	Word	ReadOnly	False
		device						
	Minute -Decimal	Local	0	SPSW	20	Word	ReadOnly	False
		device						
	Second -Decimal	Local	0	SPSW	21	Word	ReadOnly	False
		device						
	Week -Decimal	Local	0	SPSW	22	Word	ReadOnly	False
		device						
	Year -Hex	Local	0	SPSW	23	Word	ReadOnly	False
		device						
	Month - Hex	Local	0	SPSW	24	Word	ReadOnly	False
		device						
	Day - Hex	Local	0	SPSW	25	Word	ReadOnly	False
		device						
	Hour - Hex	Local	0	SPSW	26	Word	ReadOnly	False
		device						
	Minute - Hex	Local	0	SPSW	27	Word	ReadOnly	False
		device						
	Second - Hex	Local	0	SPSW	28	Word	ReadOnly	False
		device						
	Week - Hex	Local	0	SPSW	29	Word	ReadOnly	False
		device						

type	label name	device	station	address	address	data type	read write	power-off
51		name	no.	type		21	mode	holding
	Current screen number	Local	0	SPSW	30	Word	ReadOnly	False
		device						
F	System running time	Local	0	SPSW	31	DWord	ReadOnly	False
		device						
-	HMI software version	Local	0	SPSW	90	String	ReadOnly	False
		device				_		
-	System runtime - hour	Local	0	SPSW	200	Word	ReadOnly	False
		device						
-	System runtime - minute	Local	0	SPSW	201	Word	ReadOnly	False
		device						
-	System runtime - second	Local	0	SPSW	202	Word	ReadOnly	False
	2	device						
-	HMI model	Local	0	SPSW	209	Word	ReadOnly	False
		device						
-	HmiMain version	Local	0	SPSW	211	String	ReadOnly	False
		device	-			0		
-	System version	Local	0	SPSW	221	String	ReadOnly	False
	5	device	-			0		
-	Memory footprint	Local	0	SPSW	231	DWord	ReadOnly	False
		device						
-	Memory total capacity	Local	0	SPSW	233	DWord	ReadOnly	False
	5 1 5	device					5	
-	Storage occupancy	Local	0	SPSW	235	DWord	ReadOnly	False
	8 1 5	device	-					
-	Total storage capacity	Local	0	SPSW	237	DWord	ReadOnly	False
		device					5	
-	Backlight adjustment	Local	0	SPFW	252	Word	R/W	True
	(values 0-11)	device						
-	Recipe Index	Local	0	SPFW	256	Word	R/W	True
	ł	device						
-	Start screen number	Local	0	SPFW	257	Word	R/W	True
		device	-					
-	Screensaver time	Local	0	SPFW	258	Word	R/W	True
		device						
-	Multi language switching	Local	0	SPFW	260	Word	R/W	True
		device						
-	Turn off the buzzer	Local	0	SPFW	448	Bit	R/W	True
		device	Ť			2		
-	hide cursor	Local	0	SPFW	449	Bit	R/W	True
	mac cursor	device		511 11		Dit		Inte
-	Hide System Menu	Local	0	SPFW	450	Bit	R/W	True
	THUE SYSTEM METH	LUCAI	0	51 I. W	-50	Dit	1\/ \V	IIuc
	2	device						

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
		device						
	Flash disk eject failure flag	Local	0	SPSB	12	Bit	ReadOnly	False
		device						
	Flash disk insertion flag	Local	0	SPSB	15	Bit	ReadOnly	False
		device						
	Module insertion flag	Local	0	SPSB	18	Bit	ReadOnly	False
		device						
	Clear alarm records	Local	0	SPSB	120	Bit	R/W	False
Hardware		device						
	restart	Local	0	SPSB	200	Bit	WriteOnly	False
		device						
	Safely ejecting the flash	Local	0	SPSB	201	Bit	WriteOnly	False
	disk	device						
	HMI hardware version	Local	0	SPSW	33	String	ReadOnly	False
		device						
	MQTT service flag	Local	0	SPSB	19	Bit	ReadOnly	False
		device						
	Remote login flag	Local	0	SPSB	20	Bit	ReadOnly	False
		device						
	passthrough connection flag	Local	0	SPSB	21	Bit	ReadOnly	False
		device						
	VNC service flag	Local	0	SPSB	22	Bit	ReadOnly	False
		device						
	Informationization LAN	Local	0	SPSB	23	Bit	ReadOnly	False
	Connection Flag	device						
	Communication failure flag	Local	0	SPSB	48	Bit	ReadOnly	False
		device						
	Communication failure flag	Local	0	SPSB	49	Bit	ReadOnly	False
Communication	for communication port 1	device						
Communication	Communication failure flag	Local	0	SPSB	50	Bit	ReadOnly	False
	for communication port 2	device						
	Communication failure flag	Local	0	SPSB	51	Bit	ReadOnly	False
	for communication port 3	device						
	Ethernet device	Local	0	SPSB	52	Bit	ReadOnly	False
	communication failure flag	device						
	Number of devices	Local	0	SPSW	43	Word	ReadOnly	True
		device						
	port 1 communication	Local	0	SPSW	44	Word	ReadOnly	False
	successful times	device						
	port 1 communication error	Local	0	SPSW	45	Word	ReadOnly	False
	times	device						
	port 1 communication	Local	0	SPSW	46	Word	ReadOnly	False
	timeout times	device						

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
	port 1 communication	Local	0	SPSW	47	Word	ReadOnly	False
	failure times	device						
	port 2 communication	Local	0	SPSW	48	Word	ReadOnly	False
	successful times	device						
	port 2 communication error	Local	0	SPSW	49	Word	ReadOnly	False
	times	device						
	port 2 communication	Local	0	SPSW	50	Word	ReadOnly	False
	timeout times	device						
	port 2 communication	Local	0	SPSW	51	Word	ReadOnly	False
	failure times	device						
	port 3 communication	Local	0	SPSW	52	Word	ReadOnly	False
	successful times	device						
	port 3 communication error	Local	0	SPSW	53	Word	ReadOnly	False
	times	device						
	port 3 communication	Local	0	SPSW	54	Word	ReadOnly	False
	timeout times	device						
	port 3 communication	Local	0	SPSW	55	Word	ReadOnly	False
	failure times	device						
	present connection method	Local	0	SPSW	56	Word	ReadOnly	False
	1	device						
	present connection signal	Local	0	SPSW	57	Word	ReadOnly	False
	strength	device						
	Informatization IP address	Local	0	SPSW	58	Word	ReadOnly	False
		device						
	Informatization subnet	Local	0	SPSW	62	Word	ReadOnly	False
	mask	device						
	Informatization default	Local	0	SPSW	66	Word	ReadOnly	False
	gateway	device						
	Informatization port no.	Local	0	SPSW	70	Word	ReadOnly	False
		device						
	Informatization DNS server	Local	0	SPSW	71	Word	ReadOnly	False
		device						
	Informatization MAC	Local	0	SPSW	75	Word	ReadOnly	False
	address	device						
	Informatization module	Local	0	SPSW	81	Word	ReadOnly	False
	information	device						
	COM1 communication	Local	0	SPSW	203	DWord	ReadOnly	False
	response code	device						
	COM2 communication	Local	0	SPSW	205	DWord	ReadOnly	False
	response code	device						
	COM3 communication	Local	0	SPSW	207	DWord	ReadOnly	False
	response code	device						
	Ethernet device 1 IP	Local	0	SPFW	1	Word	R/W	True

type	label name	device	station	address	address	data type	read write	-
		name	no.	type			mode	holding
	address	device				4	_ /	_
	Ethernet device 1 port no.	Local	0	SPFW	5	Word	R/W	True
		device		CDEUV		TT7 1	D/W	
	Ethernet device 2 IP	Local	0	SPFW	6	Word	R/W	True
	address	device		CDEW	10	337 1	D/W/	
	Ethernet device 2 port no.	Local device	0	SPFW	10	Word	R/W	True
	Ethernet device 3 IP	Local	0	SPFW	11	Word	R/W	True
	address	device	0	SELW		word	IV W	IIuc
	Ethernet device 3 port no.	Local	0	SPFW	15	Word	R/W	True
	Ethernet device 5 port no.	device	0	SELW	15	word	IV W	IIue
	Ethernet device 4 IP	Local	0	SPFW	16	Word	R/W	True
	address	device		511 W	10	word	10 10	Inde
	Ethernet device 4 port no.	Local	0	SPFW	20	Word	R/W	True
	Ethernet device + port no.	device		511 10	20	Word	10 10	Inde
	Ethernet device 5 IP	Local	0	SPFW	21	Word	R/W	True
	address	device	0					1140
	Ethernet device 5 port no.	Local	0	SPFW	25	Word	R/W	True
	r	device						
	Ethernet device 6 IP	Local	0	SPFW	26	Word	R/W	True
	address	device						
	Ethernet device 6 port no.	Local	0	SPFW	30	Word	R/W	True
		device						
	Ethernet device 7 IP	Local	0	SPFW	31	Word	R/W	True
	address	device						
	Ethernet device 7 port no.	Local	0	SPFW	35	Word	R/W	True
		device						
	Ethernet device 8 IP	Local	0	SPFW	36	Word	R/W	True
	address	device						
	Ethernet device 8 port no.	Local	0	SPFW	40	Word	R/W	True
		device						
	Ethernet device 9 IP	Local	0	SPFW	41	Word	R/W	True
	address	device						
	Ethernet device 9 port no.	Local	0	SPFW	45	Word	R/W	True
		device						
	Ethernet device 10 IP	Local	0	SPFW	46	Word	R/W	True
	address	device						
	Ethernet device 10 port no.	Local	0	SPFW	50	Word	R/W	True
		device						
	Ethernet device 11 IP	Local	0	SPFW	51	Word	R/W	True
	address	device						
	Ethernet device 11 port no.	Local	0	SPFW	55	Word	R/W	True
		device						

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
	Ethernet device 12 IP address	Local device	0	SPFW	56	Word	R/W	True
	Ethernet device 12 port no.	Local	0	SPFW	60	Word	R/W	True
	F	device						
	Ethernet device 13 IP	Local	0	SPFW	61	Word	R/W	True
	address	device	Ū	511 10	01	Word	10 10	Inde
	Ethernet device 13 port no.	Local	0	SPFW	65	Word	R/W	True
	Enternet device 15 port no.	device	Ū	511 W	05	word	10 10	Inde
	Ethernet device 14 IP	Local	0	SPFW	66	Word	R/W	True
	address	device	Ū	511 W		word	10 10	Inde
	Ethernet device 14 port no.	Local	0	SPFW	70	Word	R/W	True
	Ethernet device 14 port no.	device	0	SELW	/0	word	IV W	The
	Ethernet device 15 IP	Local	0	SDEW	71	Word	D/W/	True
			0	SPFW	71	word	R/W	True
	address	device	0	CDEW	75	337 1	D/W/	T
	Ethernet device 15 port no.	Local	0	SPFW	75	Word	R/W	True
		device		CDEUV		TT 7 1	D/W	
	Ethernet device 16 IP	Local	0	SPFW	76	Word	R/W	True
	address	device		aprill			D /777	
	Ethernet device 16 port no.	Local	0	SPFW	80	Word	R/W	True
		device				4	_ /	
	Ethernet device 17 IP	Local	0	SPFW	81	Word	R/W	True
	address	device						
	Ethernet device 17 port no.	Local	0	SPFW	85	Word	R/W	True
		device				4	_ /	
	Ethernet device 18 IP	Local	0	SPFW	86	Word	R/W	True
	address	device						
	Ethernet device 18 port no.	Local	0	SPFW	90	Word	R/W	True
		device						
	Ethernet device 19 IP	Local	0	SPFW	91	Word	R/W	True
	address	device						
	Ethernet device 19 port no.	Local	0	SPFW	95	Word	R/W	True
		device						
	Ethernet device 20 IP	Local	0	SPFW	96	Word	R/W	True
	address	device						
	Ethernet device 20 port no.	Local	0	SPFW	100	Word	R/W	True
		device						
	Ethernet device 21 IP	Local	0	SPFW	101	Word	R/W	True
	address	device						
	Ethernet device 21 port no.	Local	0	SPFW	105	Word	R/W	True
		device						
	Ethernet device 22 IP	Local	0	SPFW	106	Word	R/W	True
	address	device						
	Ethernet device 22 port no.	Local	0	SPFW	110	Word	R/W	True

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
		device						
	Ethernet device 23 IP	Local	0	SPFW	111	Word	R/W	True
	address	device						
	Ethernet device 23 port no.	Local	0	SPFW	115	Word	R/W	True
		device						
	Ethernet device 24 IP	Local	0	SPFW	116	Word	R/W	True
	address	device						
	Ethernet device 24 port no.	Local	0	SPFW	120	Word	R/W	True
		device						
	Ethernet device 25 IP	Local	0	SPFW	121	Word	R/W	True
	address	device						
	Ethernet device 25 port no.	Local	0	SPFW	125	Word	R/W	True
		device						
	Ethernet device 26 IP	Local	0	SPFW	126	Word	R/W	True
	address	device						
	Ethernet device 26 port no.	Local	0	SPFW	130	Word	R/W	True
		device						
	Ethernet device 27 IP	Local	0	SPFW	131	Word	R/W	True
	address	device						
	Ethernet device 27 port no.	Local	0	SPFW	135	Word	R/W	True
		device						
	Ethernet device 28 IP	Local	0	SPFW	136	Word	R/W	True
	address	device						
	Ethernet device 28 port no.	Local	0	SPFW	140	Word	R/W	True
		device						
	Ethernet device 29 IP	Local	0	SPFW	141	Word	R/W	True
	address	device						
	Ethernet device 29 port no.	Local	0	SPFW	145	Word	R/W	True
		device						
	Ethernet device 30 IP	Local	0	SPFW	146	Word	R/W	True
	address	device						
	Ethernet device 30 port no.	Local	0	SPFW	150	Word	R/W	True
		device						
	Ethernet device 31 IP	Local	0	SPFW	151	Word	R/W	True
	address	device						
	Ethernet device 31 port no.	Local	0	SPFW	155	Word	R/W	True
		device						
	Ethernet device 32 IP	Local	0	SPFW	156	Word	R/W	True
	address	device						
	Ethernet device 32 port no.	Local	0	SPFW	160	Word	R/W	True
		device						
	Ethernet device 33 IP	Local	0	SPFW	161	Word	R/W	True
	address	device						

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
	Ethernet device 33 port no.	Local device	0	SPFW	165	Word	R/W	True
	Education 24 ID		0	SPFW	166	Wand	R/W	True
	Ethernet device 34 IP	Local	0	SPF W	166	Word	K/W	Irue
	address	device		CDEW	170	337 1	D/W	
	Ethernet device 34 port no.	Local	0	SPFW	170	Word	R/W	True
		device		CDEUV	1.51	TT7 1	D/W	
	Ethernet device 35 IP	Local	0	SPFW	171	Word	R/W	True
	address	device						
	Ethernet device 35 port no.	Local	0	SPFW	175	Word	R/W	True
		device						
	Ethernet device 36 IP	Local	0	SPFW	176	Word	R/W	True
	address	device						
	Ethernet device 36 port no.	Local	0	SPFW	180	Word	R/W	True
		device						
	Ethernet device 37 IP	Local	0	SPFW	181	Word	R/W	True
	address	device						
	Ethernet device 37 port no.	Local	0	SPFW	185	Word	R/W	True
		device						
	Ethernet device 38 IP	Local	0	SPFW	186	Word	R/W	True
	address	device						
	Ethernet device 38 port no.	Local	0	SPFW	190	Word	R/W	True
		device						
	Ethernet device 39 IP	Local	0	SPFW	191	Word	R/W	True
	address	device						
	Ethernet device 39 port no.	Local	0	SPFW	195	Word	R/W	True
		device						
	Ethernet device 40 IP	Local	0	SPFW	196	Word	R/W	True
	address	device	-					
	Ethernet device 40 port no.	Local	0	SPFW	200	Word	R/W	True
	Luising active to perchet	device	Ŭ		200			
	Ethernet device 41 IP	Local	0	SPFW	201	Word	R/W	True
	address	device	0	511 W	201	word		Inte
	Ethernet device 41 port no.	Local	0	SPFW	205	Word	R/W	True
	Ethernet device 41 port no.		0	SPF W	205	word	K/W	Irue
		device		CDEW	207	337 1	D/W	
	Ethernet device 42 IP	Local	0	SPFW	206	Word	R/W	True
	address	device				4	_ /	_
	Ethernet device 42 port no.	Local	0	SPFW	210	Word	R/W	True
		device						
	Ethernet device 43 IP	Local	0	SPFW	211	Word	R/W	True
	address	device						
	Ethernet device 43 port no.	Local	0	SPFW	215	Word	R/W	True
		device						
	Ethernet device 44 IP	Local	0	SPFW	216	Word	R/W	True

type	label name	device	station	address	address	data type		power-off
		name	no.	type			mode	holding
	address	device						
	Ethernet device 44 port no.	Local	0	SPFW	220	Word	R/W	True
		device						
	Ethernet device 45 IP	Local	0	SPFW	221	Word	R/W	True
	address	device						
	Ethernet device 45 port no.	Local	0	SPFW	225	Word	R/W	True
		device						
	Ethernet device 46 IP	Local	0	SPFW	226	Word	R/W	True
	address	device						
	Ethernet device 46 port no.	Local	0	SPFW	230	Word	R/W	True
		device						
	Ethernet device 47 IP	Local	0	SPFW	231	Word	R/W	True
	address	device						
	Ethernet device 47 port no.	Local	0	SPFW	235	Word	R/W	True
		device						
	Ethernet device 48 IP	Local	0	SPFW	236	Word	R/W	True
	address	device						
	Ethernet device 48 port no.	Local	0	SPFW	240	Word	R/W	True
		device						
	Ethernet device 49 IP	Local	0	SPFW	241	Word	R/W	True
	address	device						
	Ethernet device 49 port no.	Local	0	SPFW	245	Word	R/W	True
		device						
	Ethernet device 50 IP	Local	0	SPFW	246	Word	R/W	True
	address	device						
	Ethernet device 50 port no.	Local	0	SPFW	250	Word	R/W	True
		device						
	HMI IP address	Local	0	SPFW	318	Word	R/W	True
		device						
	HMI subnet	Local	0	SPFW	322	Word	R/W	True
		device						
	HMI gateway	Local	0	SPFW	326	Word	R/W	True
		device						
	HMI port no.	Local	0	SPFW	330	Word	R/W	True
		device						
	HMI DNS server	Local	0	SPFW	331	Word	R/W	True
		device						
	Communication port 1	Local	0	SPFW	335	Word	R/W	True
	interface type	device						
	Communication port 1	Local	0	SPFW	336	Word	R/W	True
	device station no.	device						
	Communication port 1	Local	0	SPFW	337	Word	R/W	True
	device baud rate	device						

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
	Communication port 1	Local	0	SPFW	338	Word	R/W	True
	device data bit	device						
	Communication port 1	Local	0	SPFW	339	Word	R/W	True
	device stop bit	device						
	Communication port 1	Local	0	SPFW	340	Word	R/W	True
	device parity bit	device						
	Communication port 1	Local	0	SPFW	341	Word	R/W	True
	delay before sending	device						
	Communication port 2	Local	0	SPFW	343	Word	R/W	True
	interface type	device						
	Communication port 2	Local	0	SPFW	344	Word	R/W	True
	device station no.	device						
	Communication port 2	Local	0	SPFW	345	Word	R/W	True
	device baud rate	device						
	Communication port 2	Local	0	SPFW	346	Word	R/W	True
	device data bit	device						
	Communication port 2	Local	0	SPFW	347	Word	R/W	True
	device stop bit	device						
	Communication port 2	Local	0	SPFW	348	Word	R/W	True
	device parity bit	device	Ŭ	511 11	510	word	10.11	iiue
	Communication port 2	Local	0	SPFW	349	Word	R/W	True
	delay before sending	device	Ŭ	511 W	545	word	10 10	IIuc
	Communication port 3	Local	0	SPFW	351	Word	R/W	True
	interface type	device	0	511 W	551	word		IIuc
	Communication port 3	Local	0	SPFW	352	Word	R/W	True
	device station no.	device	0	511 W	552	word		IIuc
			0	CDEW	252	Word	D/W	T
	Communication port 3	Local	0	SPFW	353	word	R/W	True
	device baud rate	device		CDEW	254	337 1	D/W	
	Communication port 3	Local	0	SPFW	354	Word	R/W	True
	device data bit	device		appur			D /777	
	Communication port 3	Local	0	SPFW	355	Word	R/W	True
	device stop bit	device						
	Communication port 3	Local	0	SPFW	356	Word	R/W	True
	device parity bit	device						
	Communication port 3	Local	0	SPFW	357	Word	R/W	True
	delay before sending	device						
	Communication port 1	Local	0	SPFW	400	Bit	R/W	True
	station number shielding	device						
	Communication port 2	Local	0	SPFW	416	Bit	R/W	True
	station number shielding	device						
	Communication port 3	Local	0	SPFW	432	Bit	R/W	True
	station number shielding	device						
	VNC service control	Local	0	SPFW	451	Bit	R/W	True

type	label name	device	station	address	address	data type	read write	power-off
		name	no.	type			mode	holding
		device						
	Real time mode of	Local	0	SPFW	453	Bit	R/W	True
	communication register	device						

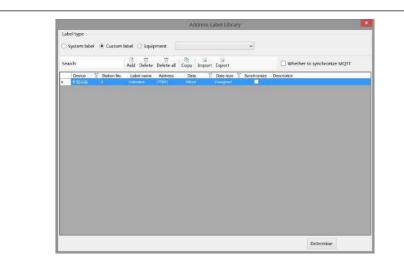
5-2-3. Custom label

According to personal usage habits, create tags for HMI internal addresses or device addresses, and view the usage of each tag address in this window.

		Address L	abel Library		×
Label type O System label	label 🔿 Equipment 🗌		~]		
Search	Add Delete Delete all	Copy Import	Export	Whether to synchronize MQTT	
Device 🍸 Station No.	Label name Address	Data 🏹		Description	
				Determine	

	New address label
	Variable name Address mode Descripti on
	Devic 本地设备 Settin Addre PSB 0 Data Word Unsignec Indirect type Determine Cancel Application
variable	Set the label name for the address to be created.

	name	
	address mode	Choose whether the address is a bit address or a word address.
	description	Set description information for the current address label, this is an optional item.
	device	Select the device where the address is located, and you can select a local device
		or a newly added device in the communication port.
	address	Set the address corresponding to the current label.
	data type	Set the data type for the current address.
	indirect	Set the current address offset, where the current register address changes with the
	specify	indirectly specified register value, i.e. Dx [Dy]=D [x+Dy numerical value] (x
		y=0, 1, 2, 3). Example: The current register address is PSW0, if the indirectly
		specified address is PSW100; When the value of the PSW100 register is 0, the
		register that controls this component remains PSW0; When the value of the
		PSW100 register is 1, the register that controls this component is PSW1 (and so
		on).
delete	Delete the spe	cified address label.
delete all	Delete all adde	ed address labels.
copy	Copy the spec	ified address label.
paste	This item is or	nly displayed when there is copied content, used to paste the copied address label
	at the specified	d location.
export	Export the cur	rently added address label in CSV format to the specified path in the computer.
import	Import the CS	V format address table of the specified path in the computer into the HMI.
example	The indicator	button uses a user-defined label.
	(1) add cu	ustom label
	File Edit Parts	Touch Win Pro - 工程 - [00001]Page1 Mapping Tool View Help
	New Open Save Clos	9 🔸 🚓 👔 👔 👔 🖓 📩 👘 🦉 🖓 📩 👘 🖓 📩 👘 🖓 📩 🚱 🖓 🚵 🚱 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓
	Engineering tree	a × (00001)Page1
	E II User screen	Address Label Library
	- User form	
	🗄 🗔 System picture	System label Custom label Custom label
		Search Equipment Copy Import Export Whether to synchronize MQTT
	Galage System picture Galage System form Galage System form Galage System form Galage Source file Source file	Search Add Delete Delete all Copy Import Export UWhether to synchronize MQTT Device V Station No. Label neme Address Data V Date have V Synchronize Description
	B System picture B S System form B & Function Block	Search Add Delete Delete all Copy Import Export University Mythematical Mythematica
	System picture System form System form Header file Survey Library	Lual Variable name Address Tabel Variable name Address of the Word word word word word word word word w
	System picture System form System form Function Block Header file Source file Surce file Surce file Address tabel Resource mate	Search Add Delete Delete all Copy Import Export Whether to synchronize MQTT Denice Variable New address Data Variable Address Hadd Delete Address
	System picture System form System form Function Block Header file Source file Surce file Surce file Address tabel Resource mate	ual Library e library Umark
	System picture System form System form Function Block Header file Source file Surce file Surce file Address tabel Resource mate	ual Delete Delete Delete Copy Import Export Whether to synchronize MQTT Derice Station No. Label nome Address Date To be hype Swindurnize Description New address bit Word Description Description Device Address bit Word Device #bit@## Settin Address bit Word Description Device #bit@## * Settin Address Device Settin Address bit word indirect indirect indirect indirect
	System picture System form System form Function Block Header file Source file Surce file Surce file Address tabel Resource mate	search Address Deter all Copy Import Export Whether to synchronize MQTT Perice Station No. Label name Address Date Y Date hre Y Swnchronize Description New address Tabel Variable Address bit Word Descripti on Devic #3(bit)# Settin Addre psg v 0



(2) use custom label

Place indicator buttons on the engineering screen and follow the steps shown in the following figure for configuration.

	Basic AttribiAppearanceSecurity sel Location
1	basic Attribute pearance security sel Location
	Control ID L10
	Description
	Read address
	Devic 本地设备 V Settin
	Addre psg v 0
	Address
	Device 本地设备 v
	Address indicator User defined labe
	Address 0 System register
	Address Use custom labels : indicator format
	of the second seco
	Address Label
	Determine Cancel Application

DE NA	Basic Attrib Appearance Security set Location	11
	Control ID LIO Description	
	Read address Devic 本地设备 v Settin Addre indicator v 0	
	logic O Positive logic O Negative logic	
	Flash On status flashes Flicker frequency Old V	
	Flicker frequency 0.1 89	
At the same	time, the usage screen and window of customized label will also be displa	ayed
on Library/ A	Address Label Library/ Custom Labels to view. (When a control reads/wr	
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/wrists, "1 1" will appear as shown in the following figure)	rites
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/writes, "1 1" will appear as shown in the following figure) 版图章 ? × D用户自定义标签 〇 系统新存器 □ 技类别显示 □ 查询模式	rites
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/writes, "1 1" will appear as shown in the following figure)	rites
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/writes, "1 1" will appear as shown in the following figure)	rites
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/writes, "1 1" will appear as shown in the following figure)	rites
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/wrights) s, "1 1" will appear as shown in the following figure) MRE# ? × MPB@x/#※ ○系統新存器 □ 按典规显示 □ 查确规式 Impact * MRE# ? MRE# ### ##### ### ##### ### ##### ### ####################################	rites
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/wrights) s, "1 1" will appear as shown in the following figure) MRE# ? × MPB@x/#※ ○系統新存器 □ 按典规显示 □ 查确规式 Impact * MRE# ? MRE# ### ##### ### ##### ### ##### ### ####################################	rites
on Library/ A same address	Address Label Library/ Custom Labels to view. (When a control reads/wrights) s, "1 1" will appear as shown in the following figure) MRE# ? × MPB@x/#※ ○系統新存器 □ 按典规显示 □ 查确规式 Impact * MRE# ? MRE# ### ##### ### ##### ### ##### ### ####################################	rites

5-2-4. Equipment label

0 5		KS系列 (CodeSys	CODES ~	
搜索	添加 動除 動除全部 复制	〒 雪 男人 男士		
	标签名称	数据类型 🍸	菌述	
	Application/GVL_HMI_Group_Amis/Group_AmisCtrl	Bool		
	Application/GVL_NUL_Group_Axis/Group_AxisCtrl	Dool		
	Application/GVL_NNT_Group_Azis/Group_AzisCtrl	Bool		
	Application/GVL_HMI_Group_Anis/Group_AnisCtrl	Bool		
	Application/GVL_DOT_Group_Asis/Group_AsisCtrl	Bool		
	Application/GVI_HMT_Group_Azis/Group_AzisCtrl	Bool		
	Application/GVL_HOU_Group_Asis/Group_AsisCtrl	Bool		
	Application/GVL_HMT_Group_Axis/Group_AxisCtrl	Bool		
	Application/GVL_DOT_Group_Axis/Group_AxisCtrl	Bool		
	Application/GVL_HMI_Group_Asis/Group_AsisCtrl	Bool		
	Application/GVL_HMI_Group_Asis/Group_AsisCtrl	Int		
	Application/GVL_DOT_Group_Axis/Group_AxisCtrl	Bool		
	Application/GVL_HMI_Group_Axis/Group_AxisEtrl	Bool		
	Application/GVL_HMI_Group_Anis/Group_AnisCtrl	Bool		
	Application/GVL_HOT_Group_Axis/Group_AxisCtrl	Byte		
	Application/GVL_HMT_Group_Azis/Group_AzisCtrl	lResl		
	Application/GVL_HMI_Group_Assis/Group_AssisCtrl	lReel		
	Annliestian/GVL NUT Group Axis/Group AxisCtel	1Beal		

Mainly displaying device labels, currently suitable for displaying codesys labels.

5-3. Resource material library

By accessing the resource material library, diversity in the appearance of editing tools can be achieved. Double click on the Project Tree/ Resource Material Library icon.

Engineering tree
🕀 🍘 Project
🗄 🗖 User screen
🖶 🗔 System picture
🗄 🐻 System form
🗄 🖪 Function Block
🗄 🗖 Library
-这 Label multilingual
- 🗵 Address Label Library
Resource material library
Audio resource library

The resource material library selection image dialog box appears, as shown in the following figure:

		Resource library
		d folders Delete folders Add Element Delete Element
 □ □ 〒接辺 □ □<td></td><td>Dutton_01 Dutton_02 Dutton_02 Dutton_03 Dutton_03 Dutton_04 Dutton_05 Dutton_05 Dutton_06 Dutton_07 Dutton_07 Dutton_08 Dutton_08 Dutton_09 Dutton_09 Dutton_09 Dutton_08 Dutton_09 Dutton_09 Dutton_09</td>		Dutton_01 Dutton_02 Dutton_02 Dutton_03 Dutton_03 Dutton_04 Dutton_05 Dutton_05 Dutton_06 Dutton_07 Dutton_07 Dutton_08 Dutton_08 Dutton_09 Dutton_09 Dutton_09 Dutton_08 Dutton_09 Dutton_09 Dutton_09
Left engineering column section		
	New folder	Add a new blank folder, which can be used to improve the material library by adding materials later
	add folder	Add a folder containing photos and quickly add materials
	delete folder	Delete selected folder
	add element	Add custom materials
	delete	Delete selected material
	element	
	rename	Rename the added folder
	e target file	Select the object image, click the "OK" button below after selecting it, and confirm to
section of	n the right	enter the target editing interface. At the same time, the function of adding or deleting
		materials can be realized through "adding elements" or "deleting elements"

5-4. Audio resource library

The audio resource library can manage all audio information in the software, including buttons, indicator buttons, character keys, function keys, alarms, and other audio playback functions.

			 Library Label multilingual Address Label Librar Resource material librar Audio resource librar 	brary		
			音频库		×	
	6	6	文件	大小	播放	
		- (alarm01.wav	831.256K	播放	
sounds		1		384.044K	播放	
			and the first of t	105.58K	播放	
			the second se	209.96K	播放	
				132.404K	播放	
				768.04K	播放	
		e		720.044K	播放	
				1910.66K	播放	
		8		1974.292K	播放	
		G		488.64K	播放	
				Determine Can		
add folder 🚺	Add a fold format)	er co	ntaining audio to quickly ad	dd audio materials (cur	rently only supports	:s way
lelete folder 🚺	Delete the s	elect	ed folder, please note that if	deleted by mistake, it ca	annot be restored	
dd material	Add custon	n mat	erials			

Take the indicator button as an example (follow the steps in the figure).

Step 1: Select the indicator light button and place it on the screen.

Step 2: Set operation related parameters according to usage requirements. As shown in the figure, the setting is reversed, meaning that every time the indicator button is clicked, the status of the indicator button changes, and it also triggers the function of playing audio. (There is currently no pause function, as long as there is a trigger signal, the selected audio will be played completely).

Step 3: Check the start sound and click on the gray box behind it to enter the audio library interface.

Step 4 ~ Step 5: Select an audio file in the audio library, select it, and click OK.

Step 6: After clicking OK at the indicator button component, the selected audio name will be displayed in the gray box.

Key	× ulsa	gei		
sic Attrib Appearance Function bi Security set Location			b i 强	Z 3
Control ID BT1				ry Recipe Edit Operation reco
Description				
Write address	n c	180018		
Devic 本地设备 v Settin	1.1.1.1	1 590 1 1 1 1 1 1 690 1 1 1	1 1 1 790 1 1 1 1 1 390 1 1 1	1111999 1111111999 11
Addre psg v 0				
□ Indirect		音频	车	
L and cet	8 : 6	文	ŧ	大小播放
Action	0	alarm01.wav	831.256	く 構成
sound	is the second			
○ Set on ○ Set off ● Negate	1	alarm02.wav	384.0441	く 播放
○ Set on ○ Set off ● Negate		alarm02.wav alarm03.wav	384.044) 105.58K	
○ Set on ○ Set off ● Negate	1		20 ST 40 ST	播放
	1	alarm03.wav	105.58K	播放播放
	1	alarm03.wav beep02.wav	105.58K 209.96K	播放 播放
	1	alarm03.wav beep02.wav message01.wav	105.58K 209.96K 132.404	播放 播放 播放 播放 播放
	2 3 4 5	alarm03.wav beep02.wav message01.wav ring01.wav	105.58K 209.96K 132.404H 768.04K	
	2 3 4 5	alarm03.wav beep02.wav message01.wav ring01.wav ring02.wav	105.58K 209.96K 132.404I 768.04K 720.044I	議放 預款

6. Function block

This chapter explains the usage of the C function by introducing the C instruction and combining some simple examples. Therefore, only some simple and easy to understand C function knowledge is used in the introduction. The main purpose is to help customers understand this function, understand some basic writing rules, and some precautions during use.

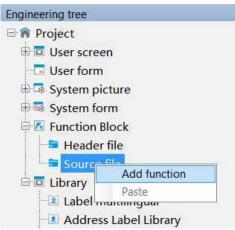
6-1. Function block introduction

6-1-1. Function block operating conditions

Unlike general TG series HMI, TS series HMI support function block offline/online simulation.

6-1-2. Build a function block

1. Open TouchWin Pro software, click engineering tree/project/function block/source file/add function.



2. Fill in the basic information of the function block in the pop-up information dialog box, and click "OK" to create a new function. (Function block names can be up to 30 characters)

	Function Attribute	×
Function name	Func0 .C	
Descriptio n		
Author		
Date	Tuesday , April V Ok Cancel	

Function Name naming Rules Refer to 6-2-1 Writing Method.

3. Select the newly created function, double-click the left mouse button, and open the function block for function writing.

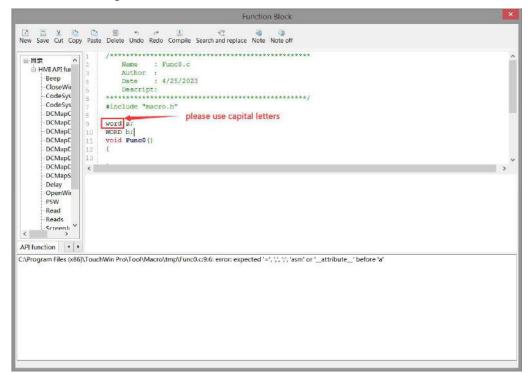
	Function Block	×
New Save Cut Copy Pa	h	
Hore CodeSys CodeSys DCMapC DCMapC DCMapC	Name : Func0.c Author : Date : 4/25/2023 Descript: #include "macro.h"	^
DCMapC 9 DCMapC 10 DCMapC 11 DCMapC 12 DCMapC 12 DCMapC 13 DCMapC 4 DCMapC 4 DCMapC 4 DCMapC 4 DCMapC 4 PSW Read Reads Screent	,	>
API function		

6-1-3. Function block compilation

Depending on the current use of the computer keyboard, users can compile functions by pressing the F5 key on the keyboard or the 'Compile' button on the menu bar during the editing process.

The compilation function can detect whether the function has syntax and writing errors, variable definitions, editing function errors, etc.

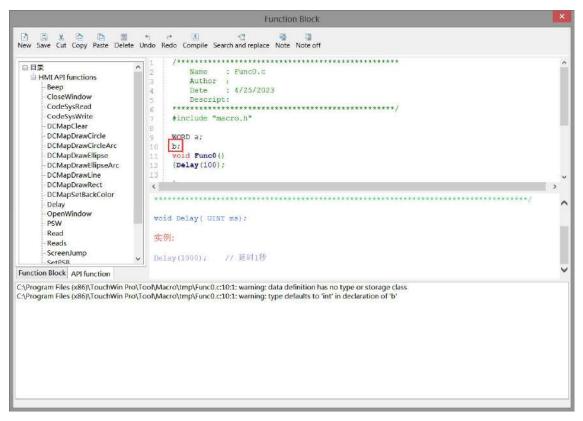
1. Grammar and writing errors



2. When using functions or macros in the function library, directly select the function to be used in the function library list, double-click it, or input the function in the editing area according to the format displayed in the function list:

w Save Cut Copy Paste Delete Ur	か (オー語) (き 通 通 3 ndo Redo Compile Search and replace Note Off	
□□□ □□ □□ HMI API functions □□ Beep □CloseWindow CodeSysRead □CodeSysWrite DCMapDrawCircle □DCMapDrawCircleArc DCMapDrawEllipse □DCMapDrawEllipseArc DCMapDrawEllipseArc □DCMapDrawEllipseArc DCMapDrawEllipseArc □DCMapDrawEllipseArc DCMapDrawEllipseArc □DCMapDrawEllipseWrite □DCMapDrawEllipseArc □DCMapDrawEllipseWrite □DCMapDrawEllipseArc □DCMapDrawEllipseWrite □DCMapDrawEllipseArc □DCMapDrawEllipseWrite □DCMapDrawEllipseArc □DCMapDrawEllipseWrite □DCMapDrawEllipseArc □DCMapDrawEllipse □DCMapDrawEllipseArc □DCMapDrawEllipse □DCMapDrawEllipseArc □DCMapDrawEllipse □DCMapDrawRect □DCMapDrawEllipse □DCMapDrawEllipseArc □DCMapDrawEllipseArc □DCMapDrawEllipseArc □DCMapDrawEllipseArc □DCMapDrawEllipseArc □DCMapDrawEllipseArc <th><pre>1 1 1 Name : Func0.c Author : Date : 4/25/2023 Descript: 4 include "macro.h" 9 10 void Func0() 11 (Delay(100);] 13] void Delay(UINT ms); 实例: Delay(1000); // 追时1秒</pre></th> <th>3</th>	<pre>1 1 1 Name : Func0.c Author : Date : 4/25/2023 Descript: 4 include "macro.h" 9 10 void Func0() 11 (Delay(100);] 13] void Delay(UINT ms); 实例: Delay(1000); // 追时1秒</pre>	3
nction Block API function		

3. undefined variable



4. Function edit error

When operating functions, many users manually enter function names and variables within the function, which can easily lead to editing errors. When inputting functions, you can refer to the following usage methods:

For example, Read function: directly select "Read" in the API function list, double-click it, and the function will be displayed in the editing area. Then press "shift + (" key on the keyboard. The system will pop up the following dialog box, and you can set it directly.

□ 目录 / / □ HMI API functions □ Beep □ CloseWindow □ CodeSysRead □ CodeSysWrite	1 /********** 2 Name 3 Author 4 Date 5 Descrip 6 *********	: 4/25/2023	
-DCMapClear	7 #include "	读属性	
- DCMapDrawCircle - DCMapDrawCircleArc DCMapDrawEllipse - DCMapDrawEllipseArc	9 WORD a; 10 void FuncC 11 {Read { 12	Register type Type 字 v	
DCMapDrawLine DCMapDrawRect DCMapSetBackColor Delay OpenWindow PSW Read Read Read ScreenJump cereSR N	12 } < ODDL Read(int 实例; < Read(s("本地役))	Station Device 本地说 经 Object PSW ~ 0 Station 0 章 Value Data type Word ~	
unction Block API function \Program Files (x86)\TouchWin Pro\ \Program Files (x86)\TouchWin Pro\		Determine Cancel Application	>

When editing functions, the input method needs to be set to English.

6-1-4. Run the function block

Users can choose function keys/functional domains/indicator buttons/buttons/multi state buttons to call function blocks according to their own needs. The specific introduction is as follows:

1. Function key calls function blocks

Place a function key on the screen, select "Function Call" from the "Optional Functions" on the right, and then click the "Add" button to add this function. Select "Call Function" on the left, and select the name of the function to be called to add the function.

		Function key	/	
unction Appea	rance Security set	Location		
Control ID	FB1			
Description				
Action Pres	ss Status	*		
Start				
Functions			Optional f	unctions
į.	用函数		1	设置线圈
		Add	1	设置数据
	function	call	×	
asic Attributes S	ecurity settings			居传输
Function				- 卸切换
al FuncO		✓ Edit	Function	月窗口
	al executior() Par			刑窗口
I Serie		anel execution		\CSV
				HCSV
	Determine	Cancel	Application	专配方
			The second second second	
				函数调用
				CONTRACTOR AND A CONTRACTOR

2. Function domain calls function blocks

1> Place a functional domain in the screen and set the "Action Mode" to "Continuous".

		Function domain	
Mode	Function	Location	
Control	ID FF0		
Descrip	tion		
Action n	node		
0	Screen		
0	Screen		
0	Coil		
0	Timing		
۲	Continuo		
0	First scan aft	r	
	Timing cont First scan afte	r mode	

2> Function options: Select "Function Call" from the "Optional Functions" on the right, then click the "Add" button to add this function. Select "Call Function" on the left, and select the name of the function to be called to add the function.

Functions selected			Optional functions
调用函数		Add	设置线圈
			设置数据
8			四则运算
-	function cal	Ļ	
Function al Func0	~	Edit	Function 奂
al Funco	2	Luit	
 Serial 	executior() Parallel	execution	
			V
	Determine	Cancel	Application V
	217		上作配方
			下载配方

3. Indicator light button/button/multi state button call function block

Taking the indicator key as an example:

Place an indicator button on the screen and set it under the function binding bar. The setting steps are shown in the following figure. After setting, every time the indicator button is triggered, the set function will be called.

Key When	pressed 🗸			
	A	dd to		
	D	elete		
	N	love		
	N	love		
	functio	in call	×	
al Function	0	 ✓ Edit 	Function	I
) Se	 rial executior○ P	arallel execution	1	

6-2. Function block explanation

6-2-1. Writing method

The writing of function block identifiers is entirely in accordance with the standard C language. The effective character sequence used to identify names in C language is called identifier, which refers to user-defined variable, function, constant, and statement symbol names.

Legal identifier

- (1) Composed of letters, numbers, and underscores
- (2) The first digit can only be a letter or an underscore
- (3) Cannot be exactly the same as the keywords in C language

(4) 256 characters or less in length

(5) The defined function name and variable name cannot be the same as the standard function name in C language

6-2-2. Function type

According to the usage of functions, the HMI editing software TouchWin Pro divides functions into header files and source files. The header file and source file are not function types, they are two different file types. The header file is "xxx. h" and the source file is "xxx. c".

Header file function

Header file: can define global variables, declare or implement functions, and the variables and functions defined in the header file can be used in the source file containing the header file. When the header file contains other header files, variables and functions in the header file can also be used.

Example:

Func.h	
// System header files or	other header files included
#include <stdio.h></stdio.h>	// use system header file<>
#include <string.h></string.h>	
#include "Func1.h"	// use user-defined header file""
int a = 10; // de	fine the variables
void Test() // re	ealize the function
{	
a = 20;	
}	
int Add(int a, int b);	// declare the function and implement it in the source file

■ Source file function

Source file: can define variables and implement specific function functions. It can be called through controls such as function keys, function domains, indicator buttons, buttons, and multi state buttons. Example:

Func.c

#include "Func.h"

```
int b = 20;
                     // define the variables
int Add(int a, int b)
{
          return a + b;
}
```

```
6-2-3. Predefined data types
```

```
#pragma once
  #include "funkey.h"
  enum LocalRegType
  {
      TP PSB = 0,
      TP_SPSB,
      TP PSW,
      TP_PFW,
      TP_SPSW,
      TP_SPFW,
      TP_COUNT,
  };
enum VarDataType
  DT Bit = 0x1,
  DT_Byte = 0x2,
  DT WORD = 0x4,
  DT_DWORD = 0x8,
  DT DDWORD = 0x10,
  DT String = 0x20,
  DT_Bytes = 0x40,
  DT Words = 0x80,
  DT_DWords = 0x100,
  DT DDWords = 0x200,
};
enum NewVarDataType
{
  DT Word = 0x4,
```

 $DT_DWord = 0x8$, DT DDWord = 0x10, $DT_Byte_String = 0x40$,

{

```
DT_Word_String = 0x80,
DT_DWord_String = 0x100,
DT_DDWord_String = 0x200,
};
```

typedef int(*_Sys_HMIMacroApi)(const char* apiid, void *param); extern int _MID(int mapid); typedef char bool; typedef unsigned int DWORD; typedef unsigned short WORD;

6-2-4. Predefined macro instructions

#define Max(a,b)	(((a) > (b)) ? (a) : (b))
Eg. $Max(3, 4) == 4$	
#define Min(a,b)	(((a) < (b)) ? (a) : (b))
Eg. $Min(3, 4) == 3$	
#define MAKEWORD(byl, byh)	((WORD)(((BYTE)(byl)) ((WORD)((BYTE)(byh))) << 8))
Eg. MAKEWORD $(0x01, 0x02) = 0$	0x0201
#define MAKELONG(wl,wh)	((long)(((WORD)(wl)) ((DWORD)((WORD)(wh))) <<16))
Eg. MAKEDWORD $(0x01, 0x02) =$	= 0x00020001
#define LOWORD(l)	((WORD)(l))
Eg. LOWORD $(0x00020001) == 0x0$	0001
#define HIWORD(l)	((WORD)(((DWORD)(l) >> 16) & 0xFFFF))
Eg. HIWORD $(0x00020001) == 0x0$	002
#define LOBYTE(w)	((BYTE)(w))
Eg. LOBYTE(0x0201) == 0x01	
#define HIBYTE(w)	((BYTE)(((WORD)(w) >> 8) & 0xFF))
Eg. HIBYTE $(0x0201) == 0x02$	

6-2-5. API function

6-2-5-1. Read/Write

function	Read and write operations (for reading and writing bits and registers)		
format	read	void Read(int devId, int staID, int objType, int dataType, int add1, int add2,	
	operation	void* pValue);	
	write	void Write(int devId, int staID, int objType, int dataType, int add1, int add2, void	
	operation	pValue);	
note	devId:	device ID	
	staID:	station no.	
	objType:	Register Address Type	
	dataType:	Register data type	
		DT_Bit Enumeration Type, occupy 1 byte	
		DT_Byte occupy 1 byte	

		DT_WORD occupy 2	bytes
		DT_DWORD occupy 4	bytes
		DT_DDWORD occupy 8	bytes
	add1,add2:	register address	
	pValue:	data buffer (The length should m	atch the dataType)
	return value	TRUE / FALSE (Success/Failure)
example	bool bValu	;// Define a Boolean variable	
	WORD wValue;// Define an integer variable		
	Read(_T("Xinje XD/XL/XG series (Modbus RTU)"), 1, TP2_M, DT_Bit, 0, 0, &bValue);//read bit M0		
	Read(_T("Xinje XD/XL/XG series (Modbus RTU)"), 1, TP2_D, DT_WORD, 0, 0, &wValue);//read		
	D0		
	Write(_T("Xinje XD/XL/XG series (Modbus RTU)"), 1, TP2_M, DT_Bit, 10, 0, bValue);//write bit		
	M10		
	Write(_T("Xinje XD/XL/XG series (Modbus RTU)"), 1, TP2_D, DT_WORD, 10, 0, wValue);//write		
	D10		
caution	When writing Read functions, be sure to add the&addressing character		

6-2-5-2. Reads/Writes

function	read write reg	ister groups	
format	read	void Reads(int devId, int staID, int objType, int dataType, int addr, int addr1, int	
	operation	regs, void* pRegs);	
	write	void Writes(int devId, int staID, int objType, int dataType, int addr, int addr1, int	
	operation	regs, void* pRegs);	
note	devId:	device ID	
	staID:	station no.	
	objType:	register address type	
	dataType:	register data type	
	addr add1:	register address	
	regs:	register numbers	
	pRegs:	data buffer (The length should match the size of the register group that needs to	
		be read and written)	
	return value:	TRUE / FALSE (Success/Failure)	
example	WORD wValue [10];// Define an integer variable		
	Reads(_T("XINJE XD/XL/XG series (Modbus RTU)"), 1, TP2_D, DT_WORD, 0, 0, 10, wValue);		
	//read D0 group		
	Writes(_T("XINJE XD/XL/XG series (Modbus RTU)"), 1, TP2_D, DT_WORD, 100, 0,		
	10,wValue);//write D100 group		
caution	Read and writ	Read and write data for floating point numbers and multiple continuous address registers.	

6-2-5-3. WriteF

function	Write register (used to write floating point number)	
format	BOOL WriteF(int devId, int staID, int objType, int dataType, int add1, int add2, void pValue);	
note	devId: device ID	
	staID:	station no.
	objType:	register address type
	dataType: register data type	
	add1,add2: register address	
	pValue: data buffer (The length should match the dataType type)	
	return TRUE / FALSE (Success/Failure)	
	value:	
example	double bValue;// Define a double precision variable	
	WriteF(_T("XINJE XD/XL/XG series (Modbus RTU)"), 1, TP2_D, DT_DDWORD, 0,	
	0,bValue);//write D0	

6-2-5-4. Delay

function	delay	
format	void Delay(UINT ms);	
note	ms: delay time (unit: ms)	
example	Delay(10);//delay 10ms	
	Delay (1000);//delay 1s	

6-2-5-5. ScreenJump

function	screen jump	screen jump	
format	WORD ScreenJump(WORD ScreenNo);		
note	screenNo:	screen no.	
example	Return:	jump to screen no.	
	ScreenJump(2);//jump to screen no.2		

6-2-5-6. OpenWindow

function	open win	open window	
format	void Ope	void OpenWindow(int winNo, int winX, int winY);	
note	winNo:	window no.	
example	winX:	Start position of window X-axis	
	winY: Start position of window Y-axis		
	OpenWindow (5001,10,10);//display window 5001 at the location (10, 10)		

6-2-5-7. CloseWindow

function	close window	
format	void CloseWindow(WORD winNo);	
note	winNo:	window no.

example	CloseWindow(5001);//close window no. 5001

6-2-5-8. Beep

function	Buzzer sounds once	
format	void Beep(void);	
example	Beep();// Buzzer sounds once	

6-2-5-9. PSW

function	PSW register can be operated directly, the type is unsigned short (i.e. WORD)		
example	PSW[300]++; // PSW[300]++ as word		
	DWORD dwValue = *(DWORD*)(PSW + 300); // send the value in PSW[300] and PSW[301] to a		
	double word		
	float fValue = *(float*)(PSW + 300); // read the value in PSW[300] and PSW[301] as floating		
	number format		
	(DWORD)(PSW + 300) = dwValue; // set a double word value to PSW[300] and PSW[301]		

6-2-5-10. SetPSB

function	set ON/OFF PSB	
format	SetPSB(addr, val);	
note	Addr:	register address
	Val:	data buffer, 1-ON;0-OFF
example	SetPSB(0,1);//set ON PSB0	
	SetPSB(0,0);//set OFF PSB0	

6-2-5-11. DCMapSetBackColor

function	Modify the background color of the function canvas		
format	BOOL DCMapSetBackColor(DWORD dwDCMapID, DWORD BackColor)		
note	dwDCMapID:	Set Function Canvas Number	
	BackColor:	Set color values, usually entered in hexadecimal, such as 0x00ff00	
example	DCMapSetBackColor (1,0x000000);// Fill the background color of the function canvas number 1		
	with black		
caution	The TS series HMI uses RGB mode, where one color occupies one byte, i.e. 0xFF0000		
	represents B (BLUE), 0x00FF00 represents G (Green), and 0x0000FF represents R (RED).		

6-2-5-12. DCMapDrawLine

function	Custom Line Drawing		
format	BOOL DCMapDrawLine(DWORD dwDCMapID, int x, int y, int Width, int Height, int		
	linewidth, DWORD color)		
note	dwDCMapID:	Set Function Canvas Number	
	X:	Set the X-axis coordinate point value of the starting point of the line using the	

		upper left corner of the function canvas as the coordinate origin $(0,0)$
	y:	Set the Y-axis coordinate point value of the starting point of the line using the
		upper left corner of the function canvas as the coordinate origin $(0,0)$
	Width:	Set the Y-axis coordinate point value of the endpoint of the line using the upper
		left corner of the function canvas as the coordinate origin $(0,0)$
	Height:	Set the Y-axis coordinate point value of the endpoint of the line using the upper
		left corner of the function canvas as the coordinate origin $(0,0)$
	Linewidth:	Set the line width, i.e. thickness
	Color:	Set Line Color Values
example	int x_pos,y_po	s,line_height,line_width,linewidth;
	DWORD line_	color;
	x_pos=PSW[300]; y_pos=PSW[301]; line_color=*(DWORD *)(PSW+302); line_height=PSW[304];	
line_width=PSW[305];		W[305];
	linewidth=PSW[306];	
	DCMapClear(1); // Use the DCMapClear command to delete the drawing during use
	DCMapDrawLine (1,x_pos,y_pos,line_width,line_height,linewidth,line_color);	

6-2-5-13. DCMapDrawRect

function	Custom Draw Rectangle		
format	BOOL DCMapDrawRect (DWORD dwDCMapID, int x, int y, int Width, int Height, int		
	linewidth, DWC	WORD color, BOOL FillRect, DWORD FillColor)	
note	dwDCMapID:	Set Function Canvas Number	
	X:	Set the X-axis coordinate point value of the starting point of the rectangle	
		using the upper left corner of the function canvas as the coordinate origin $(0,0)$	
	y:	Set the Y-axis coordinate point value of the starting point of the rectangle	
		using the upper left corner of the function canvas as the coordinate origin $(0,0)$	
	Width:	Set rectangular width value	
	Height:	Set rectangular height value	
	Linewidth:	Set the width of the rectangular line, i.e. thickness	
	Color:	Set the color value of rectangular edges	
	FillRect:	Set whether the interior of the rectangle needs to be filled, 0 is not filled, and 1	
		is filled	
	FillColor:	Set the fill color value. If FillRect is set to 0, the fill color setting is invalid	
example	int x pos,y pos,rec height,rec width,linewidth;		
example	DWORD rec color,fillcolor;		
bool Fill;			
	Read (_T("local device"), 0, TP_PSB, DT_Bit, 300, 0, &Fill);		
	x_pos=PSW[300];		
	y_pos=PSW[301];		
	rec_color=*(DWORD *)(PSW+302);		

rec_height=PSW[304];
rec_width=PSW[305];
linewidth=PSW[306];
fillcolor=*(DWORD *)(PSW+308);
DCMapClear(1);
DCMapDrawRect (1,x_pos,y_pos,rec_width,rec_height,linewidth,rec_color,Fill,fillcolor);

6-2-5-14. DCMapDrawCircle

function	Custom circle drawing		
format	BOOL DCMapDrawCircle(DWORD dwDCMapID, int x, int y, int Radius, int linewidth,		
	DWORD color, BOOL FillRect, DWORD FillColor)		
note	dwDCMapID:	Set Function Canvas Number	
	x:	Set the X-axis coordinate point value of the center display position using the upper left corner of the function canvas as the coordinate origin $(0, 0)$	
	у:	Using the upper left corner of the function canvas as the coordinate origin (0, 0), set the Y-axis coordinate point value for the center display position	
	Radius:	Set circle radius	
	Linewidth:	Set the width of the circular line, i.e. thickness	
	Color:	Set the color value of the circular edge	
	FillRect:	Set whether to fill the interior of the circle, 0 for no filling, 1 for filling	
	FillColor:	Set the circle fill color value. If FillRect is set to 0, the fill color setting is	
		invalid	
example	int x_pos,y_pos,Radius,linewidth;		
	DWORD circle_color,fillcolor;		
	bool fill;		
	Read (_T("local device"), 0, TP_PSB, DT_Bit, 300, 0, &fill);		
	x_pos=PSW[300];		
	y_pos=PSW[301];		
	circle_color=*(DWORD *)(PSW+302);		
	Radius=PSW[304];		
	linewidth=PSW[306];		
	fillcolor=*(DWORD *)(PSW+308);		
	DCMapClear(1);		
	DCMapDrawCircle(1,x_pos,y_pos,Radius,linewidth,circle_color,fill,fillcolor);		

6-2-5-15. DCMapDrawCircleArc

function	Custom arc drawing			
format	BOOL DCMapI	BOOL DCMapDrawCircleArc(DWORD dwDCMapID, int x, int y, int Radius, int linewidth,		
	DWORD color,	DWORD color, DWORD StartAngle, DWORD EndAngle)		
note	dwDCMapID:	Set Function Canvas Number		
	X:	Using the upper left corner of the function canvas as the coordinate origin (0,		
		0), set the X-axis coordinate point value for the display position of the arc		
		center		

	y:	Using the upper left corner of the function canvas as the coordinate origin		
		(0,0), set the Y-axis coordinate point value for the display position of the arc		
		center		
	Radius:	Set the arc radius value		
	Linewidth:	Set the arc line width value, i.e. thickness		
	Color:	Set the color value of arc edges		
	StartAngle:	Set the starting angle value of the arc, which is the angle between the line		
		connecting the base point and starting point and the horizontal 0 $^\circ$		
	EndAngle:	Set the angle value of the endpoint of the arc, which is the angle between the		
		line connecting the base point and endpoint and the horizontal 0 $^\circ$		
example	int x_pos,y_pos,Radius,linewidth;			
	DWORD circle_color;			
	float StartAngle,EndAngle;			
	x_pos=PSW[300];			
	y_pos=PSW[30	01];		
	circle_color=*(DWORD *)(PSW+302); Radius=PSW[304];			
	linewidth=PSW	/[306];		
	StartAngle=*(f	StartAngle=*(float *)(PSW+308);		
	EndAngle=*(float *)(PSW+310);			
	DCMapClear(1);			
	DCMapDrawCircleArc (1,x_pos,y_pos,Radius,linewidth,circle_color,StartAngle,EndAngle);			
caution	Taking the arc	origin (center point) as the base point, the direction to the right of the horizontal		
	line passing th	rough that base point is horizontal 0 °.		

6-2-5-16. DCMapDrawEllipse

function	Customize drawing ellipses			
format	BOOL DCMapDrawEllipse(DWORD dwDCMapID, int x, int y, int X_Axis_Len, int			
	Y_Axis_Len, in	Y_Axis_Len, int linewidth, DWORD color, BOOL FillRect, DWORD FillColor)		
note	dwDCMapID:	Set Function Canvas Number		
	X:	Using the upper left corner of the function canvas as the coordinate origin (0,		
		0), set the display position of the ellipse origin X-axis coordinate point value		
	y:	Using the upper left corner of the function canvas as the coordinate origin (0,		
		0), set the Y-axis coordinate point value of the ellipse origin display position		
	X_Axis_Len:	Set the ellipse radius value of the X axis		
	Y_Axis_Len:	Set the ellipse radius value of the Y axis		
	Linewidth:	Set the elliptical line width, i.e. thickness		
	Color:	Set elliptical edge color values		
	FillRect:	Set whether to fill the interior of the ellipse, 0 for no filling, 1 for filling		
	FillColor:	Set the fill color value. If FillRect is set to 0, the fill color setting is invalid		
example	int x_pos,y_pos,x_Axis,Y_Axis,linewidth; DWORD E_color,fillcolor;			
	bool Fill;			
	x_pos=PSW[300];		

	y_pos=PSW[301];
	$E_color=*(DWORD *)(PSW+302);$
	x_Axis=PSW[305];
	Y_Axis=PSW[304];
	linewidth=PSW[306];
	Read(_T("local device"), 0, TP_PSB, DT_Bit, 300, 0, &Fill);
	fillcolor=*(DWORD *)(PSW+308);
	DCMapClear(1);
	DCMapDrawEllipse (1,x_pos,y_pos,x_Axis,Y_Axis,linewidth,E_color,Fill,fillcolor);
caution	The function parameters x and y are the origin (center point) of the ellipse, not the focal point.

6-2-5-17. DCMapDrawEllipseArc

function	Customize drawing elliptical arcs				
format	BOOL DCMapDrawEllipseArc(DWORD dwDCMapID, int x, int y, int X_Axis_Len, int				
	Y_Axis_Len, in	Y_Axis_Len, int linewidth, DWORD color, DWORD StartAngle, DWORD EndAngle)			
note	dwDCMapID:	Set Function Canvas Number			
	X:	Using the upper left corner of the function canvas as the coordinate origin (0,			
		0), set the display position of the elliptical arc origin X-axis coordinate point			
		value			
	у:	Using the upper left corner of the function canvas as the coordinate origin (0,			
		0), set the display position of the elliptical arc origin Y-axis coordinate point			
		value			
	X_Axis_Len:	Set the X-axis radius value of the elliptical arc			
	Y_Axis_Len:	Set the Y-axis radius value of the elliptical arc			
	Linewidth:	Set the width of the elliptical arc line, i.e. thickness			
	Color:	Set the color value of elliptical arc edges			
	StartAngle:	Set the starting angle value of the elliptical arc, which is the angle between the			
		line connecting the base point and starting point and the horizontal 0 $^\circ$			
	EndAngle:	Set the angle value of the endpoint of the elliptical arc, which is the angle			
		between the line connecting the base point and endpoint and the horizontal 0 $^\circ$			
example	int x_pos,y_pos,x_Axis,Y_Axis,linewidth;				
	DWORD eArc_color;				
	float StartAngle,EndAngle;				
	x_pos=PSW[300];				
	y_pos=PSW[301];				
	eArc_color=*(DWORD *)(PSW+302);				
	x_Axis=PSW[305];				
	Y_Axis=PSW[3	Y_Axis=PSW[304];			
	linewidth=PSW	linewidth=PSW[306];			
	StartAngle=*(fl	StartAngle=*(float *)(PSW+308);			
	EndAngle=*(flo	pat *)(PSW+310);			
	DCMapClear(1	1);			
	DCMapDrawE	llipseArc(1,x_pos,y_pos,x_Axis,Y_Axis,linewidth,eArc_color,StartAngle,EndAngle			
);				
caution	Taking the orig	in (center point) of the elliptical arc as the base point, the direction to the right of			

the horizontal line passing through the base point is horizontal 0 °. The function parameters x
and y are the origin (center point) of the elliptical arc, not the focal point.

6-2-5-18. DCMapClear

function	Clear Canvas Content
format	BOOL DCMapClear(DWORD dwDCMapID)
note	dwDCMapID: Set Canvas Number
example	DCMapClear(1);// Clear the contents of the function canvas number 1

6-2-5-19. CodeSysRead/CodeSysWrite

Function	Read and write codesys label address operation (used for reading and writing bits and word			
	registers)			
Format	Read	BOOL CodeSysRead(int devId, char * labelName, int count, int labelType, void*		
	operation	pValue);		
	Write	BOOL CodeSysWrite(int devId, char * labelName, int count, int dataType, void*		
	operation	pValue);		
Note	devId:	CodeSys device ID		
	labelName:	CodeSys label name		
	count:	Operation quantity		
	labelType:	CodeSys label type		
	pValue:	Numerical buffer (length should match dataType type)		
Example	bool bValue;// Define a bool variable			
	float fValue;// Define a floating-point word type			
	CodeSysRe	ead(_T("Xinje XS series (CodeSys)"),		
	"Application/GVL_HMI_Group_Axis/Group_AxisCtrl_InOut[0]/ib_axis enable", 1, 0, &bValue);//			
	Read bit label ib_Axis Enable			
	CodeSysRe	ead(_T("Xinje XS series (CodeSys)"),		
	"Application/GVL_HMI_Group_Axis/Group_AxisCtrl_InOut[0]/if_axis Jog speed", 1, 13,			
	&fValue);// R	ead floating-point label if_Axis Jog speed		
	CodeSysWrite(_T("Xinje XS series (CodeSys)"),			
	"Application/	GVL_HMI_Group_Axis/Group_AxisCtrl_InOut[0]/ib_axis enable", 1, 0, &bValue);//		
	Read bit label	ib_Axis Enable		
		rite(_T("Xinje XS series (CodeSys)"),		
	"Application/	GVL_HMI_Group_Axis/Group_AxisCtrl_InOut[0]/if_axis Jog speed", 1, 13,		
	&fValue);// R	ead floating-point label if_Axis Jog speed		
Note	When writing	g CodeSysRead/CodeSysWrite functions, be sure to add the & addressing symbol.		

Function	Read and write codesys label address operation (used for reading and writing string registers)			
Format	Read string	BOOL CodeSysReadString(int devId, char * labelName, int count, int len, void*		
	operation	pValue);		
	Write string	BOOL CodeSysWriteString(int devId, char * labelName, int count, int len, void*		
	operation	pValue);		
Note	devId:	CodeSys device ID		
	labelName:	CodeSys label name		
	count:	Operation quantity		
	len:	String length		
	pValue:	Numerical buffer (length should match dataType type)		
Example	char charValue[2];// Define a string type variable			
	CodeSysReadString(_T("Xinje XS series (CodeSys)"), "Application/STR1[2]", 2, 20, &charValue);// Read string labels			
	CodeSysWrit	eString(_T("Xinje XS series (CodeSys)"), "Application/STR1[2]", 2, 20,		
	&charValue);/	/ Write string labels		
Note	When writing	CodeSysReadString/CodeSysWriteString functions, be sure to add the &		
	addressing sy	mbol.		

6-2-5-20. CodeSysReadString/CodeSysWriteString

6-2-5-21. Lock/Unlock

Function	Mutually exc	lusive locks; If multiple functions need to access a variable simultaneously, a mutex			
	lock should be used. If Lock is used to lock an ID, the program that locks the ID again will block				
	until it is unlocked by UnLock				
Format	Lock	void Lock(int id);			
	UnLock	void Lock(int id);			
Note	Id:	Range: 0~9			
Example	<pre>// The following two functions run simultaneously: void func0()</pre>				
	{				
	Lock(1);				
	PSW[123] = 55;				
	UnLock(1);				
	}				
	void func1()				
	{				
	Lo	ock(1);			
	PS	W[123] = 66;			
	Ur	nLock(1);			
	}				

6-2-5-22. COMReceive

Function	Free Communi	Free Communication - Free Format Serial Port Reception Function			
Format	int COMReceit timeBytes)	ve(int devId, char* buf, int len, unsigned short timeOut, unsigned short			
Note	devId:	Free format device identification			
	buf:	Data buffer (length should match actual data length)			
	len:	Data buffer length (in bytes)			
	timeOut:	Time out in milliseconds, 0/greater than 0 (blocking until data is received/no			
		data execution ends after timeout in milliseconds)			
	timeBytes:	Frame interval, 0/greater than 0 (blocking until receiving len length			
		data/exceeding timeBytes characters without data execution ends)			
	Return:	-1/Greater than or equal to 0 (execution failed/actual received length)			
Example	<pre>int result = -1;</pre>				
	char data $[256] = \{0\};$				
	result = COMReceive(_T("free format"), data, 100, 0, 0);// Received 100 characters, execution				
	ended				
	result = COMReceive(_T("free format"), data, 100, 1000, 0);// If there is no data after 1000				
	milliseconds, the execution will end. Otherwise, if there are 100 characters received, the execution				
	will end				
	result = COMReceive(_T("free format"), data, 100, 1000, 10);// If there is no data execution end				
		after 1000 milliseconds, otherwise the actual received length will be returned if there is no data			
		execution end after receiving 100 characters or more than 10 characters			
Note		d frame interval are configured according to the requirements of the target			
	communication	device			

6-2-5-23. COMSend

Function	Free Communication - Free Format Serial Port Sending Function			
Format	int COMSend(int devId, char* buf, int len)			
Note	devId: Free format device ID			
	buf:	Data buffer (length should match actual data length)		
	len:	Data buffer length (in bytes)		
Example	int result = -1 ;	<pre>int result = -1;</pre>		
	char data $[256] =$	{0};		
	// Send 100 chara	cters		
	result = COMSend (_T("free format"), data, 100);			
Communication	Taking Xinje PLC	C free communication as an example, equipment: XL5E; Function: Set Y0 to ON.		
example	The statement is a	as follows:		
	int result = -1 ;			
	char snd[8] = $\{0\}$, data[8] = $\{0\}$;			
	snd[0]=0x01;// Here is an example of modbus, which can be used according to the communication			
	product protocol			
	snd[1]=0x05;			
	snd[2]=0x60;			
	snd[3]=0x00;			

snd[4]=0xFF;
snd[5]=0x00;
snd[6]=0x92;
snd[7]=0x3A;
<pre>result = COMSend(_T("free format"), snd, 8);</pre>

6-3. Project example

6-3-1. Data compare

Example requirements:

Take three integers from the PLC for comparison, and output the maximum and minimum values for display on the HMI.

Example device:

(1) One TS3-700-E and one XD5E-30T4-E

(2) One USB download cable, one PLC communication cable, and one computer

Related information:

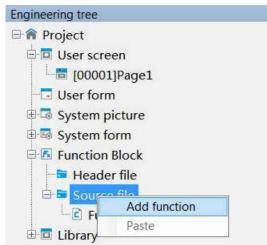
(1) User Manual for XD/XL Series Programmable Controllers (Basic Instructions)

(2) TouchWin Pro Editing Software User Manual

Operation process:

1. Establish C function block

In the Engineering Tree Function Block, right-click and select Add Function.



The function block information input box appears (as shown in the figure below), fill in the relevant information and click OK.

		Function A	ttribute		
Function name	Compare			.c	
Descriptio n					
Author					
Date	Wednesday,	April 🗸			

Establish a C function block editing environment, with the following functions:

Function Block	<pre>/************************************</pre>	3
	<pre>12 13 Read(_T("XINJE XD/XL/XG (Modbus RTU) "), 1, TP2_D, DT_Word, 0, 0, &a);//read FLC data D0 14 Read(_T("XINJE XD/XL/XG (Modbus RTU) "), 2, TP2_D, DT Word, 2, 0, &b);//read FLC data D2 15 Read(_T("信捷 XD/XL/XG孫列 (Modbus RTU) "), 1, TP2_D, DT_Word, 4, 0, &c);//read FLC data D4 16 17 if(a>b)//compare the data 18 (max=a;min=b;) 19 else 20 (max=b;min=a;) 21 if(max<c) <="" pre=""></c)></pre>	>
Function Block ()		3

2. Call the function

Place a function key on the screen, and the remaining settings are shown in the following figure. Select "Function Call" from the "Optional Functions" on the right, then click the "Add" button to add this function. Double click "Call Function" in the "Selected Functions" section, and select the name of the function to be called in the "Function" section (select the newly created function "Compare" above) to add the function.

		Function key		
Function Appe	arance Security set	Location		
Control ID	FB1			
Description				
Action Pr	ess Status	~		
Start				
Functions			Optional functions	
	调用函数		设置线圈	
36	100	Add	设置数据	
	fur	nction call	×	
Basic Attrib	outes Security setti	ings		
Function al	Compare	✓ Edit	Function	
	 Serial execution 	Parallel execution	n	
	Deter	mine Cancel	Application	
			下生化自己/フ	
			函数调用	
			画面打印	

Click on the "Appearance" option, set the function key text to "Function Call", and finally click "OK" to complete the settings.

3. screen editing

Place 3 numerical inputs, addresses D0, D2, D4, 2 numerical displays, addresses PS300, PSW301, 5 text strings, as follows:

sto D0	sti D2	^{s†2} D4	
0000	0000	4 0000	
Max(PSW300	00 00 00	180 函数调用	
Min(PSW301)	0000		101 IVI 101
AND REPORTED FOR THE	X 100 100 100 100 100 10	a sole and approximate and	

4. Finally, download the program to the HMI and connect it to the PLC for operation.

6-3-2. Clear the data block

Example requirements:

The data blocks in the PLC are cleared to zero.

Example device:

(1) One TS3-700-E and one XD5E-30T4-E

(2) One USB download cable, one PLC communication cable, and one computer

Related information:

(1) TouchWin Pro Editing Software User Manual

Operation process:

1. Place 3000 data input components on the screen, with addresses set to D0, D1... D2999, and attributes set to WORD. The number of digits is 5, and unsigned number (i.e. WORD unsigned). As follows:

00000	100000	00000	00000	00000	00000	00000	00000	00000	00000	
100000	100000	00000	00000	100000	00000	00000	00000	00000	00000	
00000	00000	00000	00000	200000	00000	00000	00000	00000	00000	
		_			-		_		00000	
400000	00000	00000	00000	40000	00000	100000	00000	00000	00000	
	11112	41941			a hada		111111			
00000	00000	66000	00000	00000	00000	00000	200000	00000	00000	

2. Establish C function block

In the Engineering Tree Function Block, right-click and select Add Function.

Engineering tree
🕀 🎓 Project
🖻 🗖 User screen
🖶 🗔 System picture
🗄 🗟 System form
🖶 🖪 Function Block
- 🖻 Header file
E-Sourcefie
Add function
Paste

The function block information input box appears (as shown in the figure below), fill in the relevant information and click OK.

		Functio	n A	ttribute	9		×
Function name	Clr				. C		
Desc <mark>ri</mark> ptio n							
Author							
Date	Wednesday,	April	~				
				Ok		Cancel	

Establish a C function block editing environment, with the following functions:

	Function Block	
New Save Cut Copy	Paste Delete Undo Redo Compile Search and replace Note Note off	
Function Block Header file Source file C Func0 C Compare C Ir	2 Name : CIr.c 3 Author : 4 Date : 4/26/2023 5 Descript:	
		>

3. call the function

Place a function key on the screen, and the remaining settings are shown in the following figure. Select "Function Call" from the "Optional Functions" on the right, then click the "Add" button to add this function. Double click "Call Function" in the "Selected Functions" section, and select the name of the function to be called in the "Function" section (select the newly created function "Clr" above) to add the function.

	Function key	
Function Appearance Security set	Location	
Control ID FB2		
Description		
Action Press Status	~	
Start Functions		
		Optional functions
调用函数	Add	设置线圈
	Add	设置数据
fur	nction call	×
Basic Attributes Security sett	ings	
Function al Clr	✓ Edit	Function
 Serial execution 	O Parallel executio	on
-		
Deter	mine Cancel	Application
		函数调用

Click on the "Appearance" option, set the function key text to "Reset", and finally click "OK" to complete the settings.

4. Download the program to the HMI for operation.

6-3-3. Four arithmetic operations of floating point

Example requirements:

Perform addition, subtraction, multiplication, and division operations.

Example device:

(1) One TS3-700-E

(2) One USB download cable and one computer

Related information:

(1) TouchWin Pro Editing Software User Manual

Operation process:

1. New project, screen content production

(1) Place two data input components on the screen, with their addresses set to PFW300 and PFW302, their attributes set to DWORD, floating point display (DWORD float), integer bits 3 and decimal bits 2. The settings are shown in the following figure (all other data input operations are the same):

Numeric input properties	×
Basic Att Data inp Scale co Notice Appeara Security Location	^
Control ID DI2 Description	
Read / Write use different address	
Read / Write Address Devic 本地設备 v Settin	
Addre PFW V 300 Data DWord V Float V Indirect	
Numeric input properties	
c Att Data inpuscale co Notice Appeara Security Location	
Show Leading 0	
Number of digits	
Integer digits Decimal digits 2	-

(2) Place four data display components on the screen, with addresses of PFW304, PFW306, PFW308, and PFW310. The attributes are all set to DWORD, floating point display (DWORD float), with 3 integer bits and 2 decimal bits. The settings are shown in the following figure (all other data display operations are the same):

Contr	
Desci	iption
Read a	Idress
Devic	本地设备 v Settin
Addre	PFW ¥ 304
Data type	DWord Y Float Y Indirect
	Numeric Display Properties
c Attr Da	Numeric Display Properties ata displiscale com Appearan Security s Location
	ta displescale con Appearan Security s Location
c Attr <mark> D</mark> a	ta displescale con Appearan Security s Location
Show	ta displescale con Appearan Security s Location
Show	ta displescale con Appearan Security s Location

3. Establish C function block

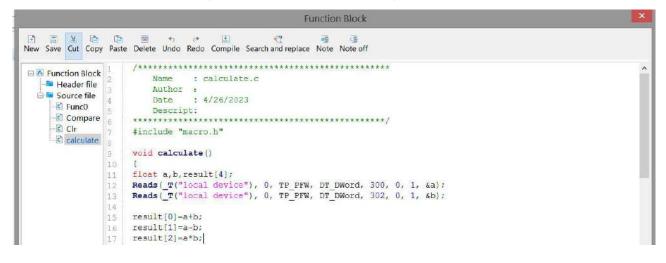
In the Engineering Tree Function Block, right-click and select Add Function.

Engineering tree	
🖻 裔 Project	
🖻 🗖 User screen	
[00001]Page1	
🗄 🗔 System picture	
🗄 🔜 System form	
🖶 🖪 Function Block	
- 😑 Header file	
E Source file	
E FI Add function	
E Library Paste	

The function block information input box appears (as shown in the figure below), fill in the relevant information and click OK.

		Function	Attribute		×
Function name Descriptio n	calculate			c	
Author		A]		
Date	Wednesday,	April 🗸			
			Ok		Cancel

Establish a C function block editing environment, with the following functions:



4. call the function

Place a function key on the screen, and the remaining settings are shown in the following figure. Select 'Function Call' from the 'Optional Functions' on the right, then click the' Add 'button to add this function. Double click on' Call Function 'in the' Selected Functions' section, and select the name of the function to be called in the 'Functions' section (select the newly created function' calculate 'above) to add the function.

unction		ce Security set	Location			
unction	Appearan	ceisecunity set	Location	8		
Cont	rol ID FB	2				
Desc	ription					
Actio	on Press S	itatus	~			
🗌 Sta	rt					
Function	ıs				Optional funct	tions
	周用函数	calculate			设置	线圈
				Add		数据
		function	on call		×	算
Basic At	tributes S	ecurity settings				[報]
Functi al	on calcula	te	*	Edit	Function	换
				1108020		iΠ
	 Seria 	al executior() P	arallel ex	ecution		<u>я</u> ц
						sv
		Determine		ancel	Application	SV
		Determine		ancei	Application	方
			T		7.8	ant-
					「も	配方
						调用

Click on the "Appearance" option, set the function key text to "Four operations", and finally click "OK" to complete the settings.

5. Download the program to the HMI for operation.

6-3-4. Data type cast

Example requirements:

It is mainly used to realize the forced conversion of data type through C function, where floating point is converted to integer, and integer is converted to floating point.

Example device:

(1) One TS3-700-E

(2) One USB download cable and one computer

Related information:

(1) TouchWin Pro Editing Software User Manual

Operation process:

1. New project, screen content production

Place two data input components on the screen, with their addresses set to PFW300 and PFW400, and their attributes set to DWORD. The PFW300 data type is floating point (DWORD float), with 3 integer bits and 2 decimal bits. The PFW400 data type is set to unsigned numbers with 5 integer bits and 0 decimal places. Place a data display unit on the screen, with the address set to PFW500, the attribute set to DWORD, the data type floating point (DWORD float), integer bits 3 and decimal bits 2. The settings are shown in the following figure:

PFW300	ST1 PFW400	PFW500
000.00	D0000	P-000.00
Dword-float	Dword-unsigne	d Dword-float

3. Establish C function block

In the Engineering Tree Function Block, right-click and select Add Function.

Engineering tree
🗆 🎓 Project
🖻 🗖 User screen
🗄 🗔 System picture
🗄 👼 System form
E Function Block
🖻 🖬 Source file
E Ft Add function
E Library Paste

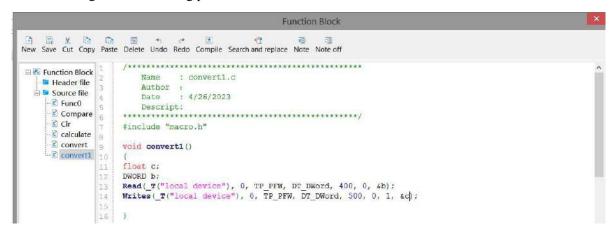
The function block information input box appears (as shown in the figure below), fill in the relevant information and click OK.

	Functi	on Attribute		×
Function name Descriptio n	convert		. c	
Author Date	Wednesday, April	v Ok		Cancel

Establish a C function block editing environment, with the following function sections Convert: cast a floating point number to an integer.

	Function Block	×
New Save Cut Copy Pa	The second seco	
 ■ Function Block ■ Header file ■ Source file ■ Func0 ■ Compare ■ Convert ■ Convert 9 ■ Convert 9 11 12 13 14 	<pre>Reads(_T("local device"), 0, TP PFW, DT DWord, 300, 0, 1, sa); Write(_T("local device"), 0, TP PFW, DT DWord, 400, 0, a); } </pre>	^

Convert1: Integer cast to floating point number.



4. call the functions

Place a function key on the screen, and the remaining settings are shown in the following figure. Select "Function Call" from the "Optional Functions" on the right, then click the "Add" button to add this function. Double click on "Call Function" in the "Selected Functions" section, and select the name of the function to be called in the "Functions" section (select the newly created function "convert1" above) to add the function.

		Function key		
unction Appea	arance Security set	Location		
Control ID	FB2			
Description				
Action Pre	ess Status	~		
Start				
Functions			Optional functions	
调用	函数convert1		设置线圈	
		Add	设置数据	
R.	fund	ction call	×	
Basic Attribu	tes Security settin	igs		
Function	convert1	← Edit	Function	
	Serial execution) Parallel executio	n I	
			1	
	Determ	ine Cancel	Application	
10. ¹²⁸			Ē valor i	
			函数调用	

Click the "Appearance" option, set the function key text to "floating point>Integer", and finally click "OK" to complete the setting.

Create another function key, the operation is the same as above, call the function "convert", and the text is "integer>floating point number".

5. Download the program to the touch screen for operation.

7. HMI system settings

7-1. System setting introduction

This function is to modify and display the system parameters of the HMI. After downloading the project, it will

be displayed in the bottom right corner of the touch screen by default. Clicking on the "Setting icon will

display the default hidden " icon, which includes system settings, keyboard, and device information from left to right. If you do not need this function, you can hide it by checking the "Hide System Menu" on the project download page. The setting icon will not appear in the bottom right corner of the touch screen (after checking hide, you need to download the project).

	Download (PC - > HM	1)
Communication settings		
Connection USB	~	
	USB Communic	
Upload Download		
Downloa	Ø	
Allow project uplo	oad 🔽 Upload pa	•••
User defined boot	scree Use the default boot	screen
Synchronize PC tim	e 🔽 Hide menu system	Enable installment
Clear alarm record	Clear operation	Clear data acquisition
 Overwrite recipe da 	ata 🔽 Download fonts to	Clear PFW/SPFW data

7-2. Keyboard

Click on the "use icon to pop up the keyboard, which serves as the input keyboard for modifying system parameters on the touch screen and can also be used as the input keyboard for registers.

Esc	1	2	3	4	5	6	7	8	9	0	050	=	Back	Space
Tal	,	q	w	e	r	1	у	a		i	0	p	1	1
Ca	ps	a	s	d	f	9	1		ī	k	Ĩ	3	8	Å
Sh	ift	z	x	c	v	b	n	1	m	ĸ	98	1	Ent	er
c	trl		Alt	Î						4				L

7-3. Device information

(i)

Click the *icon* to display a device information pop-up window, which includes HMI version, download version, system version, device IP, and device ID.

设备信息		X
Hmi版本:	1.1.3.221018	
系统版本:	1.1.3.2201012	
硬件版本:	HV2	
设备IP;	172.31.8.169	
设备ID:	118-049-202-8EB2-0671	

7-4. Setting

Click to pop up the 'Please Enter Password' pop-up window, where you can enter the 'Set Password' (default initial password 123456, which can be customized on the chapter 7-2 password setting page) and enter the setting interface. There are 7 pages under the settings interface, from left to right: name, password, network, time, VNC, system, and others.

清输入空码	\leq														
	Virt	ual Ke	eyboa	rd											
	Esc	1	2	3	4	5	6	7	8	9	0		=	Back	Space
ļ	Та	b	a	w	e	r	t	У	U		1	0	p	I	1
	c	aps	a	s	d	f	0	h	1 P	i	k	1	3	3	X
确认 取消	S	hift	2	x	c	v	Ь	п	1 11		8		1	En	ter
	(:trl		Alt			-	-					*		ŧ

7-4-1. Name

Click on "Name" to enter, click on the "Modify" button on this page to modify the name of this HMI. After entering the name, click "Confirm" to save it.

Hmi	宮称: gy		

When the modified name is downloaded through the local area network on the download page, scan the IP to display the corresponding name.

	下薪 (PC -> HMI)		3163	
	通信设置			
	连接方式	局域网	~	
	● 设备IP查找	172.31.2.147	~	
	〇 设备ID查找	133-192-026-6383-57	/23 ~	The said free this
		扫描IP通	信测试	
以太网设备信息查询				×
DevNam	e	IP	DevID	Model
Hmi		172.31.0.55	133-192-026-6383-5723	T\$3-1000-E
Hmi		172.31.1.241	096-120-250-CE2C-7572	TS3-700-E
gy		172.31.2.147	361-071-138-C4C9-1476	TS3-1000-E
Hmi		172.31.0.110	275-036-242-DA23-4362	T\$3-700-E
Hmi		172.31.0.1	314-127-180-D7AF-7974	TS5L-1500-E
Hmi		172.31.1.223	304-060-020-7985-2471	TS5L-700-E
Hmi		172.31.1.222	125-152-049-77DE-0156	T\$3-700-E
Hmi		172.31.2.170	110-191-008-F918-7089	TS3-700-E
Hmi		172.31.1.53	419-161-108-5CA7-3998	T\$3-700-E

7-4-2. Password

Click "Password" to enter, where you can modify the upload password, download password, set password, and VNC password. To modify the password, you need to enter the original password, and the system default password is "12345678".



change upload	This function is used to modify the upload password of the corresponding project.
password	If the upload password is set in the software before downloading the project, and is modified
	on the touch screen after downloading the project, the corresponding password when
	uploading the project is the modified password.
	If the upload password is set before downloading the project and is not modified on the touch
	screen after downloading the project, the upload password remains the password set in the
	software before downloading the project, and the upload password can be blank.
	If the input upload password does not correspond to the set password, the download page will
	prompt for an incorrect command password. For the specific operation steps of the project
	upload function, please refer to chapter 2-6 Upload Project
change	The download password is used for the download interface and can only be modified through
download	the password setting interface in the HMI settings. After modifying the download password,
password	the corresponding password on the download page during project download is the modified
	password, and the download password cannot be empty. If the entered download password
	does not correspond to the set password, the download page will prompt "Command password
	error". Please refer to chapter 2-5 project download for the specific operation steps of the
	engineering download function
change setting	This function is used to modify the password for entering HMI settings. After modifying the
password	setting password, the corresponding password when entering the settings is the modified
	password. If the entered setting password is incorrect, the HMI page will pop up a "Password
	Incorrect" pop-up window. The HMI settings interface can only be accessed by entering the
	correct setting password.
change VNC	This function is used to modify the password when VNC connects to the HMI the next time.
password	
change remote	This function is used to modify the password when connecting to the HMI remotely the next
password	time. The modified password requires a HMI restart to take effect

7-4-3. Network

Click "Network" to enter, where you can modify the IP address of the HMI. You can choose to automatically obtain the IP address through DHCP or manually set the IP address. If an IP address is set in the project, the IP displayed on this page after downloading the project is the IP set by the project.

6 通过DHCP自					
④ 手动设置中地	1000				
	_				
IP address;	172	. 31	. 2	, 147	
Subnet Mask;	255	. 255	0	. 0	
Gateway:	172	. 31	. 255	, 254	
DNS address;	221	. 228	. 255	. 1	

7-4-4. Time

Click "Time" to enter. On this page, you can modify the display time of the HMI. If you want to set the time, you need to remove the default "Disable Clock Setting" check from the system clock setting page in the project. Then you can download the project to the HMI and modify the time on this page.

	System settings	>
aramete Monitor Interactic User	per Clock Device Printer Project	
✓ Disable clock setting		
Clock source		
HMI internal		
O Peripheral		
Write clock to peripheral		
Write Continuity		
Clock display format		
Decimal system Hexad	ecimal	
Number of synchroniz		
Device	Register	
<u>再</u> 定》	☆ 密码 网络 时间 VNC 系统 其它 Tuesday 2022 年 6 月 21 日	
	16 时 2 分 29 秒	
	修改 确认 取消	



VNC connection supports two connection methods: one is the information configuration entry within TS software. The other type is an external VNC Viewer.

Start VNC single-connection	Only a single VNC can be enabled, that is, only one VNC entry can be enabled to connect to this HMI. If an external VNC Viewer is
	enabled, priority should be given to connecting to the VNC
	configured internally in the software, and the settings will take
	effect synchronously.
Start VNC multi-connection	Support multiple VNC usage, that is, multiple VNC entries are
G start vive matreonicetion	enabled simultaneously to connect to this HMI, and synchronization
	takes effect after setting.
Stop VNC connection	Close VNC connection, that is, other VNC ports cannot enable VNC
C Stop Vive connection	connection to this HMI. After setting, synchronization will take
	effect.

7-4-6. System

Click "System" to enter, where you can view system information and the proportion of system resources.

系统信息).		系统资源
9核版本: 4.14.40-v1.0.	2-gbbe8cfc	可用内存:	34.1/113.7MB 30.0%
系统版本:1.1.2.220630		可用存储:	66.9/100.2MB 66.7%
Hmi版本: 1.1.1.220711		CPU使用率:	usr:57.7% sys:22.7%
设备ID: 133-192-026-	-63B3-5723		
MAC: 6c:79:b8:83:e	5:d1		

7-5. System menu

Under the system menu, touch calibration, firmware updates, and viewing and modifying partial system information of the HMI can be performed, including local information, time, IP, password, and information functions. At the same time, all screens serve as system menus and can be called up in user project.

Enter mode

Function description

If the hardware version of the HMI is H1, in the event of a power outage, turn the 3rd dial switch on the back of the HMI to ON and then power on to enter the system menu; If the hardware version of the HMI is H2 or above, you need to first hold down any position of the touch screen, then power on the HMI to enter the system menu

THEM THEM THE THE THE THE THE THE

Project screen	Click to directly enter the project editing screen.
System	After clicking this button, you can enter the touch screen system settings screen, where you can
setting	view or modify the internal settings of the touch screen, including the local information, time, IP,
	password, and information related functions of the HMI. In the following sections, a detailed
	explanation of this feature will be provided.
Firmware	Used to update HMI firmware.
update	
Touch	When there is a deviation in the touch, this function can be used for calibration. Press and hold for
calibration	3 seconds in any blank area to enter the calibration screen



The information function is only supported by the TS5 series HMI.

7-5-1. Native information

After clicking the "System Settings" button, you will enter the screen shown in the following figure. Under this function, you can view and modify the local information, time settings, HMI IP settings, and password settings of the touch screen. The TS5 series has an additional information settings page, which can be switched through the left button. Click the "Home" button in the upper left corner to return to the startup page of the project screen.

In the local information, you can view the local model, module model, HMI version, system version, hardware version, local IP, local ID, available memory, and available storage.

育 前						
▲ 本机信息	本机型号:	TS5-700-Е/	<i>N/</i> 4G			
-	模块型号:	Wifi				
<u>२</u> 时间设置	HMI版本:	1.1.4.23061	7			
	系统版本:	1.2.25.2306	14			
IP HMI IP设置	硬件版本:	HV2				
	设备IP:	10 - 100) · 19	55		
密码设置	设备ID:	120-144-13	9-0FB7-28	387		
	可用内存:	20.6	Mb /	128.0	Mb	
合信息化设置	可用存储:	41.7	Mb /	128.0	Mb	

7-5-2. Time setting

The time setting page allows you to view and modify the current date, time, and week.

🏫 首页							
1110没置	日期:	2023	#	6	月 [30	B
ПР НМПР@置	时间:	15	BJ	38	分	27	杪
<u></u>	星期:	5					
🔁 密码设置							
合信息化设置				C	修改)	

If you need to change the date, you can click the "Modify" button in the bottom right corner to directly modify the sub items that need to be corrected. After modification, click "Confirm" and the page will prompt the modification result; If you click the "Cancel" button, the modified content will not be saved.

育 前页									
▶ 本机信息									
🔁 时间设置	日期:	2023] # [6	月 [30	E		
р ны ред	时间:	15	B	38	分	44	Ð		
	星期:	5							日期修改成功!
1 2010									
会 信息化设置				C	确认	$\mathcal{O}(0)$	取消		确定

7-5-3. HMI IP setting

The IP settings page allows you to view and modify the IP acquisition method and IP address related information of the HMI.

一 本机信息	🥑 iik	DHCP自动	动获取IP	地址		0	手动获取	QIP地址
→ 时间设置	IP地址	10].[100].[19].[55
	子网掩码	255] - [255] . [255] . [0
IP HMI IP设置	默认网关	10].[100] . [19] - [254
	DNS	10		100] . [2] . [10
全 密码设置	MAC	Зc	47	57		7	89	77

Under the condition of manually setting the IP address, after changing the IP address, click "OK" to save, and the page will pop up with the modification result; If you click the "Cancel" button, the modified content will not be saved.

本机信息	() iiii	DHCP自家	b获取IP	地址		×.	手动获用	以IP地址	
Retration	IPtht	10		100		19		55	
실 时间设置	子网掩码	255]-[255]-[255].[0	
	默认网关	10		100		19	¥.	254	
	DNS	10		100] •]	2		10	IP修改成功!
全 密码设置	MAC	Зc	47	57		7	89	77	in iscards.

7-5-4. Password setting

The password setting page is used to modify the upload password, download password, and set password of the HMI. If you need to modify the password, you can directly enter the original password, new password, and confirm the new password in the input box under the corresponding category. After entering all three, click "Modify" and the page will prompt you with the modification result.

🏫 前			
本机信息	1.0.000 (0.00		
🚫 时间设置	上传密码 修改 原密码	下载密码 修改 修改 原密码	设置密码 修改 原密码
ПР НМПР@置	新密码	新密码	新密码
2 空码设置	确认新密码	确认新密码	确认新密码
1 信息化设置			

Kind reminder: Please remember your password information. If you forget it, you will not be able to retrieve it.

7-5-5. Informatization settings

The TS5 series products support the IoT function, which can be viewed and switched through the "Information Settings" page, including internet access and password changes. Due to the impact of information technology related function settings on HMI networking, it is necessary to verify the information technology password, which is the remote password of the HMI. The default password at the factory is 12345678.

育 前	
时间设置	请输入信息化设置密码:
ПР ни пре	讲那八语志化 以且 否行.
€ 密码设置	
会 信息化设置	确定

After successfully entering the password, you can enter the relevant information configuration page. The homepage allows you to view information related to information technology, such as the current device's networking method, signal strength, SIM card status, and remote related flag status.

联网方式: 有线	云智造通用版体验
信号强度: 0 1	Rati (cloud.xinje.net
SIM卡状态: 未插4G模块	
	· · · · · · · · · · · · · · · · · · ·
远程登录标志: 已登录	国"科学校" (华为、小米、OPPO
VNC启用标志: VNC已启用	
MQTT服务标志: 已登录	えるした。 云智進 ジェールに、 物信小昭序

Networking	Display the current networking status of the HMI. The information on networking methods
method	includes: wired, WiFi, 4G, and not connected.
Signal strength	Display the signal strength in 4G or WiFi mode, with a value of -99~0. The closer to 0, the
	stronger the signal. In wired mode, the signal strength is displayed as 0.
SIM card status	Display the status of the SIM card in 4G internet mode.
	The SIM card status includes six different states: network normal, SIM card detected,
	successful network login, internet failure, SIM card detected, network login failure, internet
	failure, SIM card not detected, error, and 4G module not inserted.
Remote login flag	Display the current remote login status of the device. This includes two states: logged in and
	not logged in.
VNC enable flag	Display the current VNC enabled status of the device. Including two states: enabled and not
	enabled.
MQTT service flag	Display the current MQTT service status of the device. This includes two states: logged in
	and not logged in.
Xinje Cloud QR	The three QR codes are the QR codes for Cloud webpage, APP download, and WeChat mini
code	program, which can be scanned and recognized with a mobile phone. Through cloud
	platform, remote operations such as VNC and data transmission can be performed on touch
	screens.
Information	Click "Information Password Modification" to enter the password modification page as
password	shown in the following figure. On this page, you can modify the VNC password and remote
modification	password of the HMI.
	VNC撤销 修改 远程密码修改后需重启生效!
	Enterin Enterin
	原皮码 原皮码
	新座码 新座码
	确认新资码 确认新资码
	Note: After changing the remote password, it must be restarted the HMI to take effect.
Modify	Click the "Modify" button to enter the network configuration viewing and configuration
	page. If the networking method has been configured, the current networking method page

	will be displayed upon entering; If the internet connection method is not configured, the						
	wired internet connection page will be displayed.						
	You can switch the networking mode through the dropdown menu in the upper left corner of						
	the "Networking Mode" and make corresponding networking configurations. The following						
	vill provide a detailed introduction to three different networking mode configurations.						
	联网方式: 有线上网 🛇						
	4G上网						
	WiFi上网						
	有线上网						
Return	Click to exit the information settings and return to the system page.						

(1) Wired networking

The wired internet configuration page is shown below, and you can choose to automatically obtain an IP address through DHCP or manually set an IP address according to your needs. After setting up, click "Confirm" to save. If you click the "Back" button during the setup process, all changes to the current page will not be saved.

IP地	341	10		100		19	8	55	
子网	掩码	255] . [255].[255] - [0]
默认问	网关	10		100		19] .	254]
DN	VS	10].[100].[2].[10]

(2) WiFi networking

Under WiFi internet connection mode, it is necessary to configure the WiFi for internet connection, as shown in the following figure.

SSID	安全	信号强度	
Xinje AP	WPA_WPA2_PSK	-65	E-
xinxihua	WPA_WPA2_PSK	-77	
xinje	WPA2_P5K	-85	-4
TP-LINK_2108EB	NONE	-87	C
DIRECT-C6-HP Laser 136w	WPA2_PSK	-87	周素
		1/2页	

The page will display 12 WiFi networks that can be selected in a table, divided into two pages with 6 rows displayed on each page. You can switch between the "Previous" and "Next" buttons on the right side. Currently, automatic refresh is not supported. To refresh, you can click the "Refresh" button on the right.

If you need to configure or switch to connected WiFi, you can click on the row where the target WiFi is located. A password prompt will appear above the table and below the networking method. After entering the correct password in the input box, the touch screen will try to connect to WiFi. If the connection is successful, the SSID of the WiFi will be displayed in the "Currently Connected to WiFi" section at the top right of the page, and it will be used to connect to the network.

请输入WiFi密码:	l and	WiFi已断开!				WiFi连接成功	
SSID	安全	信号强度		SSID	安全	信号强度	
Xinje AP	WPA_WPA2_P5K	-05	<u>_</u> _h	Xinje A P	WPA_WPA2_P5K	-65	1
xinxihua	WPA_WPA2_PSK	-77		xinxihua	WPA_WPA2_PSK	-75	
xinje	WPA2_PSK	-85	₽ ₩	TP-LINK_210868	NONE	-87	र
TP-LINK_2108E8	NONE	- 87	C.	DIRECT-C6-HP Laser 136w	WPA2_PSK	-87	(
DIRECT-C6-HP Laser 136w	WPA2_P5K	-87	A STAT	Galaxy Z Fold4 1480	WPA2_P5K	-88	
		1/2页				1/2(0	

(3) 4G networking

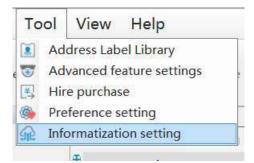
No other settings are required in 4G internet mode. After selecting the 4G internet mode, click "Confirm" to proceed.

联网方式: 4G上网 🕥	
	御礼」「返回」

8. Informationization settings

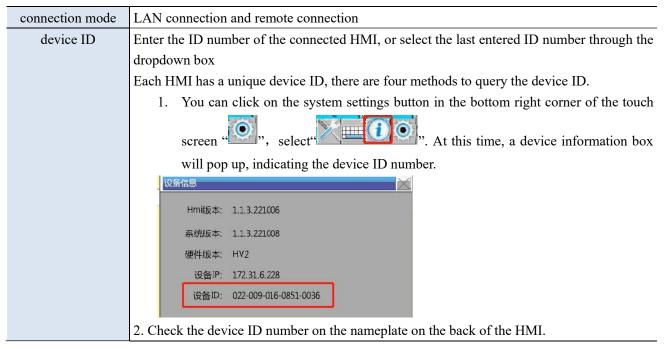
8-1. Information configuration login

1. Click on the menu bar - Tools - Informatization Setting to enter the Informatization Configuration interface



2. Information communication settings interface

Connection m	AN connection	~
Device ID:	3 8 20 8	~
Password:		•
Password:		•



	3. When downloading, select the LAN download and scan the IP interface to find the
	required device ID based on the model and IP address.
	Download (PC - > HMI) Offline Simulator Compile System settings Data sampling Alarm entry
	Communication settings Ethernet device information query
	Connection LAN Y • Device IP discovery 192.168.6.2 Model • Device IP discovery 192.168.6.2 412-169.050.932F-7761 TSS-700-E/W/465
	Device ID lookup 412-169-050-93CF-72
	Scan IP Communic
	Upload Download
	Downloa
	☑ Allow project upload ☑ Upload pa
	4. See the description of 'Find Available Devices' below
password	default password: 12345678 (user can define the password, refer to chapter 7-3-2 password)
find available	When the device ID address is uncertain or multiple touch screens are connected, you can
device	click this button to scan the device IP that the computer is connected to. Select the IP
	address that needs to be connected from the scanned IP address, click "Find Available
	Devices", and the following pop-up window will pop up. Double click to select the device
	you want to connect to
	ModR-San
	双击通择设备 (2年2年3年4月) (2年10年1月) (2年10年1月) (2年10年1月) (2年10年1月) (2年10年1月) (2年10年1月) (2年10年1月) (2年10年1月) (2年11月) (2年11
	Hmi 172.31.7.121 01305121085C05927 TS5-1500-E HV1// Hmi 172.31.6.109 02200002310330009 TS5-700-E HV1//.1.3.221006
	Hmi 172.31.0.110 02200900616590058 TS5-700-E HV1/1.1.3.220929 Hmi 172.31.6.115 02200900814380004 TS5-700-E HV1/1.1.3.220929
	10.14
communication test	Used to test whether the HMI is successfully connected to the computer. After clicking, a
	prompt box will pop up displaying whether the connection was successful or failed
	Communication settings 🚽 🗖 🔀
	Connection m Remote connection
	Device ID: Y
	Password:
	Find available Communic Connect to
connect to the	After entering the correct device ID and password, click "Connect to the Device" to
device	successfully log in to the information configuration interface



1. When connecting to a local area network, the HMI IP and the computer IP must be in the same network segment. When selecting the LAN connection method, it is necessary to enter the correct ID number and password; Alternatively, by clicking to find available devices, double-click to select the device you want to connect to (the default connection password is 12345678).

2. Before using the information function for the first time, the HMI must contain a program. When making remote connections for the first time, it must be connected through a local area network. After entering the information configuration interface, different internet access methods (4g/wifi) should be selected based on the modules behind the HMI. For specific usage methods, please refer to 2-3 internet access methods. After successful configuration, enter the device ID number and remote connection password to successfully connect remotely.

3. The information function can also be used when the project is not open. Select LAN or remote connection, and only after successful connection can you enter the configuration page. When modifying information configuration, it is necessary to maintain the connection between HMI and PC.

8-2. State information

View the currently mounted modules and system information:

Status information	Networking settings	Remote settings	Online transmission	Data release		
Module information:	None					
Module version:	V1.0					
Name	Regi	ster	Value	Not	es	
Networking m	ode SP3	SW56	3	Single word	Dec integer	
Signal intens	sity SP:	SW57	0	Single word	Dec integer	
System time		SW16	2023-05-06 11:5:7	Six word D	Six word Dec integer	
device running	time SPS	W200	00:28:18 Triword d		im <mark>al integ</mark> er	
IP address	SP:	SW58	192.168.6.2	Quadword	Dec integer	
Subnet mas	k SP:	SW62	255.255.255.0	Quadword Dec integer		
Gateway	SP	SW66	192.168.6.1	Quadword	Dec integer	
DNS	SP	SW71	0.0.0.0	Quadword	Dec integer	
MAC addres	ss SP:	SW75	3C-47-57-07-75-FF	Six word H	lex integer	
VNC Service Enal	ble Fl SP	SB22	1	Bit, b	inary	
MQTT server ena	able fl SP	SB19	0	Bit, b	inary	
LAN connection	n sign SP	SB23	1	Bit, b	inary	
Login server f	flag SP	SB20	1	Bit b	inary	

Module information	Display the current module name, wired/4G/WiFi
Module version	Display the current module version
Networking mode	1: 4G 2: WiFi 3: wired
Signal intensity	Effective in 4G and WiFi modes, displaying signal strength (-51dB~-113dB)
	The signal greater than -51 is strongest, and the signal less than -113 is weakest The closer the value is to 0, the stronger the signal strength
System time	Display the current system time
Device running time	Accumulated time of operation after starting the device
IP address	Display the IP address obtained by the current device
Subnet mask	Displays the subnet mask obtained by the current device
Gateway	Display the gateway address obtained by the current device
DNS	Displays the Domain Name System server address obtained by the current device
MAC address	MAC address
VNC service enable flag	Monitor whether VNC server is enabled in HMI 1: ON 0: OFF
MQTT service enable flag	Monitor whether MQTT server is enabled in HMI 1: ON 0: OFF
LAN connection flag	1: ON 0: OFF
Login server flag	Monitor whether HMI is connected to FRP server 1: ON 0: OFF
	We suggest to use this flag bit to monitor if the HMI is in remote status.

This page displays the corresponding status information and system registers of the module, which can only be viewed and cannot be modified.

8-3. Networking settings

8-3-1. TouchwinPro software configuration

	Informatizati C - X
	Status information Networking settings Remote settings Online transmission Data release
	Networking mode: Wired Internet Acce v
	Get address automatically
	O Use the following address
	102 168 6 10
	IP address 192 . 168 . 6 . 10
	Subnet mask 255 , 255 , 0
	Default Gateway 192 . 168 . 6 . 1
	Get server address automatically
	O Use the following server address
	Preferred DNS Server 0.0.0
	Applicatio Ok Cancel
4G	When selecting 4G internet access, there is no need to configure parameters. After
	selecting 4G internet access, click "Application" below, and a pop-up window will
	prompt you to restart the HMI. After clicking "OK", restart the HMI, and the configuration parameters will take effect. Next time, remote login information
	configuration interface can be used
WIFI	When selecting WIFI to access the internet, users can manually enter their SSID and
	wireless password, or click on the WiFi scan button to view the SSID, encryption
	method, and signal strength of nearby devices. Click on Connect and enter the correct WiFi password. If the connection is normal, the parameter values will be
	automatically filled in to the parameter page
	1-directly enter wifi name and password.
	Note: The password and name must be entered correctly, otherwise it may cause
	incorrect WiFi configuration to be downloaded and remote connections will not be able to log in. If this situation occurs, it is necessary to connect through the local area
	network and reconfigure the WiFi.

You can set the internet access method here: 4G, WiFi, or wired mode:

	Informatizati C – X
	Status information Networking settings Remote settings Online transmission Data release
	Networking mode: ID should be 17 bit v WiFi
	Encryption WPA-PSK v enter wifi name
	and password
	Wifi passwo 🔹
	Discussion from that the wife estimate are correct, on the natural will not be available a
	Please confirm that the wifi settings are correct, or the network will not be available a 2. After wifi fast connection, if the original networking mode is wifi, the original wifi w
	3. It takes time for wifi to disconnect and reconnect
	Applicatio Ok Cancel
	2-scan the parameters through wifi. Step 1: Click on "WiFi Scan"
	Step 2: Click the "Quick Connect" button
	Step 3: Enter the corresponding WiFi password in the pop-up prompt box. If the
	password is entered correctly, there will be a prompt of "Connection Successful",
	otherwise there will be a prompt of "Connection Failed"
	Step 4: After successful connection, click the "OK" button, display "Download
	successful". The configuration parameters will take effect and remote connection can
	be made
	Wf例表 - × SSII 安全 信号强度 操作
	▶ 0 SZ-FZST WPAWPA2FSK 电位连接 1 温控-七楼-CAD2 WPAWPA2FSK 电位连接
	2 TF-LIKE_BL2C WFAWFA2TSK 3 LevLisk WFAWFA2TSK
	4 Yinje AP NPAWPA2TSK 快速连接
	5 TF-LIFE_EA69 WFAWFA2FSK 快速连接 6 Tenda_522466 分 据示 × 快速连接
	清输入密码:
	(四王率/胡则 大崇福)人)
	刷新 关闭
wired	When selecting wired Internet access, users can configure to obtain IP automatically,
	or manually set Internet access parameters, including IP address, subnet mask, default

gateway and DNS



1. The settings on this page will take effect after downloading the program and power on the HMI again.

2. If switching the internet mode causes the HMI to be unable to connect, please use Ethernet to connect to the local area network and reset the information settings.

3. Clicking the "OK" button will update all page configuration information to the lower computer(HMI). Please make sure to check each page before clicking "OK".

Whether each item of information on a page is incorrect, such as WiFi name, WiFi password, data publishing, etc; If only one page is changed or uncertain about the information, it suggests clicking the "Application" button, which will only update the current page configuration to the HMI.

8-3-2. HMI (lower computer) configuration

It supports configure through the HMI (lower computer), please refer to chapter 7-5-5 informatization setting.

8-3-3. User project configuration

Support information settings in the user project. The current information settings are set using the system template. Users can call relevant screens in the user project according to their needs, or transplant the relevant settings in the template to the user project. The current supported screens are as follows:



8-4. Remote settings (VNC)

The VNC function is a remote desktop function that can operate the HMI directly through a local area network or remote connection without the need for secondary configuration.

8-4-1. TouchwinPro software connection

TouchwinPro software is mainly used for single device maintenance and remote viewing. Generally, related operations are performed with a known ID, and click remote settings when it is already remote login through informatization settings.

and the second design of the s	nation Networking settings	Remote settings	Online transmission	Data release	
VNC		42 a			
	Port number: 5900)	÷		
	VNC password 123	150			
	110 Passion 123	150	•		
	Network	Sta	art VNC		
	422				
	If the network dela	y is high, it ma	y not be connecte	d or stuck	

Port number	The default is 5900 and cannot be modified
VNC password	The default password is 123456 (customizable password, refer to chapter 7-3-2
	password)
Network detection	After clicking on network detection, an attempt will be made to establish an Frp
	connection with the HMI, reporting the connection status and whether the connection
	is normal or abnormal
Start VNC	Open the local VNC client when clicking to start VNC
Stop VNC	Close the local VNC client when clicking to stop VNC



8-4-2. Boxmanger software connection

The Boxmanger software is mainly suitable for managing multiple devices, and can manage model devices through accounts. At the same time, using the Xinje IoT card can synchronize card management.

- (1) Boxmanger account and group setting Refer to A-BOX user manual.
- (2) Right click on the group, select add device.

			$\circ - \mathbb{R}$
name ar 10 🔍			
14081		Enter device name	New
Add group	-	Fotor dovice ID	
	-	Enter device iD	
Edit group name	uu	Enter device password	
		Select device group	group1 👻
	- (+	-	Add Device
	Add group Edit group name	Add group Edit group name	Add group Add group Edit group name Delete group

(3) Enter the device ID and password, finish the configuration.

Use	name: vanessa				
î	*	<u></u>	3		
	inter the device no	ime or ID	Q		
4 10901	2				
U) test111 499098207C13140	81		Enter device na	me New
group	1				
				Enter device	ID 164-239-090-4A33-23
				Enter device passw	12345678
				Select device gro	
					group (

(4) Remote checking it.

Username: vanessa			0 – 🛛 🗙
A B A C A C A C A C C A C			
Please enter the device name or ID Q	Device Name : New	ICCID: 8986	50485102270294942
() test111	Device ID : 1642390904A332339	CardStatus :	正常
499098207C1314031 4 group1	Online status : OnLine		12288.00 M
New 16423909044332339	Networking:有线		2748.02 M 9539.98 M
	Version Info: HV2/1.1.4.230613 (TS5L-700-E)		0.06 M
	Remarks :		
	Delete Device Add collect		Configuration

TS5L-700-E ID:1642390904A332339(HV2/1.1.4-230613)			@ — 🛛 🗙
	Data Monit	Port Trans	
	-		
VNCapplications			
11			
		-10	
	Contraction of the		
VNC	password : 123456		
			Start VNC
			Bienentrickenterenterent

8-4-3. PC connection

The PC end mainly relies on the Xinje Cloud, which can achieve multi end access and be used directly in the browser.

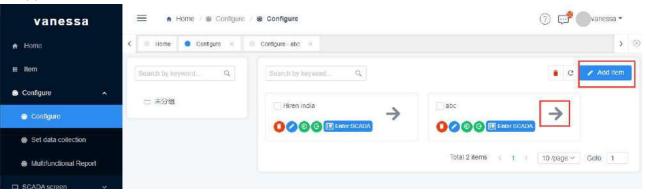
Xinje Cloud Website: https://cloud.xinje.net/

Note: please refer to Xinje Cloud V4.1 user manual for details.

(1) Xinje Cloud account register and login.

	空码登录 验证码登录
	1 vanessa
٤x5	â
云智造	Remember password Auto login
	Login
	Register Forget ADWPW Demologin Long v

(2) Add item



(3) Add device

vanessa		A Home @	Configure	0	💬 💭 vanessa 🔹
	<	Add device		×	5系统资料资本面认 ×
			TSSLHY		Add device
	* 1	× Communication	TS物联网机型	~	
		device.			
	3	TS5LID.	1642390904A332339		
		TS5L 密码:	12345678		
	× 3	VNC 透码:	123456	5	
	× 14				
	ъ.	GPS;	Automatic positioning Manually positioning		
		Longitude :	Select	<u>~</u>	
		Latitude:	Select	~	
		Device info:	+ Add a row		
	×.		Save × Cancel		

(4) Check the item

vanessa	a	😑 🔺 Home 🗉 Item		🕧 🗐 🖓 🗇 vanessa 🕶
A Home		< G Home item ×		■ 総有系统消息尚未确认 × 8
# item		Search by keywordQ.	Search by Keyword	
Configure	2 4 1	白 未分组	★ Hiren india	★ abc
SCADA screen	~			
🖬 Data analysis	Ŷ		0 0 0 Total Read Unread	0 0 0 Total Read Urread
▲ 生产进度管理	×		No Data	No Data
Alarm	×		Enter SCADA Enter VNC	Enter SCADA Enter VNC
🔧 Maintenance	×			Total 2 items < 1 > 10 /page < . Goto 1
🐡 Recipe				

(5) Remote login to check, select image quality, compression level as the actual condition.

	VNC配置	×	
	密码		
	1 画质 低	 高	
	压缩等级0	商	
	185	取消 确定	
		VNC	
0			

8-4-4. Mobile connection

The mobile end mainly relies on the Xinje Cloud to achieve multi end access, which can be directly used in apps and WeChat mini programs.

APP and Mini Program Address:



for IOS or Android



- (1) Project binding on Xinje Cloud PC end, refer to 8-4-3 for details.
- (2) Remote connection (take wechat app as an example)

	云暂	習造 - Item		Θ		云智造 - n	oVnc	•••	Θ
Мар	Item	Data	Alarm	Ξ	ĸ	Select VNC	device		
Q Search by	/ keyword	i		V≣					
Total		Read	Unread						
	(No Data				连接参	光灯		
Enter the	project	E	Enter VNC		密码	•••••	ΩA.		
					画质	低	-0-	古同	
3 abc				••••	压缩等级	its		D	
0 Total		0 Read	0 Unread			低	-	高	-
	6	No Data			Ca	incel	Confi	rm	
	C	J NO Data							
Enter the	project	E	Enter VNC						
		No more							
슈		Ŕ		2					
Home	Item	workbe	nch n	ny					

8-5. Online transmission

Transparent transmission function, which means that the computer does not need to be connected to a PLC, but only needs to be connected to a HMI to control the PLC. The PLC program can be directly downloaded and monitored through the HMI. Two transparent transmission methods are currently supported: serial port transparent transmission and VPN transparent transmission.

Transparent transmission function requirements: The HMI is TS5 series, and the PLC is connected to the HMI through serial/network ports.

If the TS5 access Internet mode is wired mode, only serial port transparent transmission is supported.

8-5-1. Serial port transparent transmission

tatus information	Networking settings	Remote settings	Online transm	ission	Data release	
	i <mark>on mo</mark> serial port					
COM1:		CC	DM2:			
Bau	d rate: 19200	~	Baud rate:	1920	v v	
Dat	a bits: 8	~	Data bits:	8	~	
Che	ck digi Even	~	Check digi	Even	~	
Sto	p bit: One	~	Stop bit:	One	~	
Virtua	l serial COM1	~ \	/irtual serial	COM	2 🗸	
Enabl	e statu Enable (COM1	Enable statu	Ena	able COM2	
Rese	et virtual serial		Enable	virtua	al	
1						
						-
						_

transmission mode	Serial port transparent transmission, VPN transparent transmission
baud rate	9600/19200/38400/57600/115200
data bit	7/8
parity bit	None/Odd/Even
stop bit	None/One/Two/OnePointFive
virtual serial port	COM1-COM255 optional
enable status	Check whether to enable COM1/COM2 ports, both serial ports can be enabled for virtual serial

	ports at the same time
reset virtual serial	After modifying multiple serial port parameters, it can be directly reset
port	
enable virtual	Enable the virtual serial port of COM1/COM2 for further transparent operation

Serial port transparent connection steps:

(1) Connect the COM port of the PLC to the COM port of the TS5 through an XVP cable.

(2) Connect the HMI to the PC using a local area network/remote connection (refer to chapter 8-1), and enter the Information Settings - Online Transparent Transmission interface.

(3) Set the serial port transmission related parameters, including baud rate, data bits, check bits, stop bits, etc., to be consistent with the PLC serial port parameters. Select the virtual serial port and enable it to start the transparent transmission service.

	mo serial port	narothr w					
CONT		passin *					
COM1:		CC	DM2:				
Baud r	ate: 19200	~	Baud rate:	19200) v		
Data b	its: 8	~	Data bits:	8	~]	
Check	dig <mark>i</mark> Even	~	Check digi	Even	~		
Stop b	it: One	~	Stop bit:	One	~		
Virtual se	rial COM27	~ 1	/irtual serial	COM	2 ~	1	
Enable s	tatu 🗹 Enable (Enable statu	🗌 Ene	ble COM2	2	
Reset v	irtual serial		Close th	ne virtu	lal		
New virtual se Opening seria open the seria Connecting to Connect netwo	port port success the network	sfully					^
		passthrough h	ias been co	onnec	ted		~

After enabling, the Device Manager interface will have a virtual serial port as shown in the figure below. Click "Abort" or "Clear residual virtual serial port", and the established virtual serial port will exit and no longer occupy the system port number.

1 28	管理器
文件(F)	操作(A) 查看(V) 帮助(H)
(+ = +	🗊 📴 😰 🗊 🖳 📕 🗙 📀
~ 4) 靖口 (COM 和 LPT) 帚 Electronic Team Virtual Serial Port (COM1)
	Electronic Team Virtual Serial Port (COM27
	■ 蓝牙链接上的标准串行 (COM6) ■ 蓝牙链接上的标准串行 (COM7)

(4) Open PLC programming software XDPpro.

(1) select local serial port (COM1), click Comm-test, it shows "connect to PLC succeeded", click ok.

(2) after connecting, the right lower corner will show ^{1,Scan Cycle:0.0ms}, now user can download and monitor the PLC program.

Communication	COM_Modbus_1		
Connection mode	eselection		
Interface Type:	COM	~	
CommProtocol:	Modbus	~	
Communication p	arameter configurat	ion	
Automatic Det	tection		
Station No 1 Serial Port(C) COM27 Ølue Tooth	€ Serial Port	Baudrate(<u>B</u>) 4800BPS 9600 19200BPS 3840 115200BPS)BPS)0BPS
Parity(<u>P</u>) None O		Other set Databits:8 ,Stopbits:1	
Connect To PLC	Succeeded	✓ Auto-conn	ect on exit Cancel



Note:

- 1. During transparent transmission, it is necessary to maintain network connectivity. If disconnected, it will affect transparent transmission operations.
- Transparent transmission can only be operated on the premise that PLC and HMI can communicate normally. During transparent transmission, communication between HMI and PLC will be disconnected, and it will resume after the transparent transmission is completed.
- 3. Only serial port transparent transmission is supported in LAN connection, and two transparent transmission methods are supported in remote connection mode.
- 4. Try to avoid using COM1 and COM2 for virtual serial ports to avoid confusion.

8-5-2. VPN transparent transmission

VPN transparent transmission steps:

(1) PLC and HMI are connected through a network cable.

(2) Configure HMI to remote connection mode and enter the information settings online transparent transmission interface

(3) Select VPN transparent transmission method, set the network segments of PLC, HMI, and virtual gateway in

the same network segment, and click "Enable VPN".

		±,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100			0 - >
状态信息 联网设置	远程设置	在线遗传	数据发	布			
适传方式:	VPN透传	\$	^				
VPN参数配	置						
	虚拟网关:	192 .	168 .	1	. 1		
	子网掩码:	255 .	255 .	255	. 0		
	虚拟网段:	192 .	168 .	1	. 252		
		192 .	1 <mark>68</mark> .	1	. 254		
						启用	VPN

(4) Open PLC programming software XDPpro.

(1) enter the device IP and local IP, local IP refers to the local IP of the virtual network card, click Comm-test, it shows "connect to PLC succeeded", click ok.

(2) after connecting, the right lower corner will show ^{1,Scan Cycle:0.0m:}, now user can download and monitor the PLC program.

Communication	Ethernet_Modbus_1		
Connection mode	selection		
Interface Type:	Ethernet	~	
CommProtocol:	Modbus	~	
Device IP:	192 . 168 . 1 . 100	502	
Devrice IP:	192 . 168 . 1 . 100	502	
Device II .			
Local IP:	192 . 168 . 1 . 252		
	1	✓ Auto	o-connect on exi



- (1) Please refer to ABOX user manual for other brands of PLC transparent transmission method.
- (2) Siemens S7-200 smart, Matsushita FP-XH series PLC cannot support serial port transparent transmission.
- (3) Enabling VPN will occupy the HMI IP, and the IP in the bottom right corner of the touch screen will be blank. After turn off the VPN, will default to the previous IP address.
- (4) Transparent transmission supports the use of TouchwinPro software and Boxmanger software in the same way.

8-6. Data release

8-6-1. Data release configuration

Data release refers to sending local data information to the cloud through a specified protocol. Data release function requirements: The HMI is TS5 series, 4G/WIFI/wired connected and can access the corresponding server.

tus information	Networking settin	gs Remote settings O	nline transmission	Data release
IQTT server	configuration			
	Server type:	General MQTT serv	er	~
	Release met	Ensure successful p	ublishi <mark>ng once (</mark> d	once 🗸
	Server address	mqtt.x-net.info		
	User name	xinjeadmin		
	Passwo	•••••	•••	Ø
Re	estore	Read		Write
ata configura	ation			
Instruction		ommand	Instruction	
Instruction name	Communi devic		Data number	Notes
device1	本地设	备 PSBO	1[Bit]	
device2	本地设	备 PSBO	1[Bit]	

MQTT server setting

server type		general MQTT server /Aliyun server/Custom server
release	#e1eese	Corresponding QoS service quality level: QoS0, published only once, regardless of
method publish once	whether it reaches the publisher or not, the publisher (when the client or server is	
		the sender) only sends once, regardless of whether the receiving end has received

	the data
Successfully	Corresponding QoS service quality level: QoS1, successfully published at least
published at least	once. The publisher needs to confirm upon arrival. After publishing the message, the
once (possibly	publisher waits for the recipient's confirmation message. If the receiving end does
multiple times)	not reply, resend it
Ensure successful	Corresponding QoS service quality level: QoS2, to ensure successful publication
publishing once	once, the publisher needs to confirm upon arrival, and the recipient needs to confirm
(with and only once)	again by the publisher
server address	Default mqtt.x-net.info and cannot be modified
user name	The default is xinjeadmin, which can be modified by users themselves
password	Default 16 bits password and not visible
restore	Restore the publishing method, username, and password to the default configuration
hoon	Read the published MQTT configuration, password, username, and publishing
read	method
write	Write the latest configuration to the MQTT server

Data Configuration: Configure data publishing, allowing for creation, deletion, and editing of published content.

add	Add instructions to be released
instruction	
edit	Edit the added instructions to view their details or modify them
instruction	
delete	To delete an added instruction, left click on the line that needs to be deleted and click on the
instruction	instruction to delete it

Click on the command add to enter the data command configuration and edit the data source

Device command				
Command r		Communica 本	地设备	~
Data specif <mark>i Bit</mark>	*	Add metho Si	ngle addition	~
Data object PSB	~	Start addre	0.0	
MQTT				
Data type: BOOL(Bool)	Trigge	er mi <mark>Triggered wher</mark>	n the value 🗸	
Trigger co ^{less than}	 ✓ Min 	imu	*	
Maximu	🗘 Publis	h eve	S	
remar				

device command:

command name Name the current instruction, the instruction name cannot be empty

communication	Select the data source, which can be connected to devices within the HMI project or local HMI
device	
data	select the data format, Bit/Word
specification	
add method	Single addition: mapping one instruction to one address
	Batch Add: Multiple addresses mapped to a specified command (with consistent data types)
data object	select the register type
start address	enter the start address

MQTT:

data type	the data type includes INT16U, INT16S, INT32U, INT32S, INT64S, Float, Double, Char[]
trigger method	Triggered when the value changes, triggered when the condition is met, and triggered at a fixed
	time
trigger	Trigger conditions are divided into: less than, within range, greater than, not equal to, and
condition	beyond range
minimum	Set the minimum value of the range. When the trigger condition is greater than, this item is not
	filled in
maximum	Set the maximum value of the range, and leave this field blank when the trigger condition is less
	than
publish space	The interval between publishing data, in seconds
remark	Comment name for data

Click on the command edit and enter the editing interface:

				Instructio	n editing sett	ings			
ear	ch	Add Delete D	elete all Import	Export					
Ī	Instruction anuni		ion Data	Data	🕅 Min value	¥ax value	Fublish	Notes	x
		的负荷 PSBO	A. 141 - 141	baal	-			-	
	2 本i	也设备 PSB0	1[Bit]	bool	17.				

search	Enter relevant keywords to search	
add	add a instruction	
delete Select a line of instructions to delete		
delete all	delete all the commands	

8-6-2. Xinje cloud server

Operation steps (take Xinje Cloud server as an example):

(1) Enter the information settings - data release interface.

atus intormation	Networking settings	Remote settings	Online transmission	Data release	
	configuration				8
	Server type: G	eneral MQTT se	erver	~	
	Release met E	nsure successfu	publishing once (once Y	
	Server addresem	qtt.x-net.info			
	Use <mark>r n</mark> amexi	njeadmin			
	Passwor		•••••	æ	
R	estore	Rea	d	Writ	e
ata configur	ation				
Instruction	Соп	mand	Instruction		
Instruction name	Communica device	tion Instruction address		N	otes

(2) select server type: general MQTT server.

Server type:	General MQTT server	~
Release me	et Ensure successful publishing or	nce (once \vee
Server addre	s:mqtt.x-net.info	
User nan	nexinjeadmin	
User nan Passwo	2 	Ø

(3) select release method, please choose it as needs.

Server type:	General MQTT server v	
Release met	Ensure successful publishing once (once 🗸	
	Publish only once Publish successfully at least once (possibly	
Scrver addres.	Ensure successful publishing once (once an	
User name	xinjeadmin	
User name Passwoi		

(4) click add instrcution, click ok after addition.

Instruction	Command		Instruction			
	Da	ata instr	uction configura	ition		- 1103
Device com	mand					
Command r			Communi	ca本地设备		
Data specifi	Bit	~	Add meth	o Single add	dition	
Data object	PSB	~	Start add	re 0	. 0	
MQTT						
Data type:	BOOL(Bool)	Trig	iger m [.] Triggered v	when the val	ui Y	
Trigger co	less than	× N	1inimu(*	
Maximu		‡ Pub	lish eve		S	
remar						

Note: When adding or deleting device protocols in the system settings, it is necessary to download the project to the HMI in order to update the communication devices in the data command settings.

(5) After adding instructions, click Apply or Confirm, then power on the HMI again to complete data publishing. After successful publishing, open the Xinje Cloud Server and proceed to the next step on the server.

us information Ne	etworking settings	Remote settings Onlin	e transmission Data	release
QTT server con	nfiguration			
Se	erver type: Ge	neral MQTT server		~
	Release met En	sure successful pub	lishing once (once	
Se	erver addres:mo	itt.x-net.info		
	User namexin	jeadmin		
	Passwor	•••••	••	Ø
Rest	ore	Read]	Write
ata configuratio	on			
Instruction	Com	nand	Instruction	
Instruction name	Communicati device	on Instruction address	Data number	Notes
D20	本地设备	PSW20	1[Word]	-

ð

- (1) Xinje Cloud Server Monitoring currently does not support monitoring bit group addresses.
- (2) The cloud platform corresponding to the Xinje MQTT protocol is limited to Cloud V4.1 and above.
- (3) For specific details on the operation of the cloud platform, please refer to the cloud platform manual "Xinje Cloud V4.1 User Manual".

Xinje Cloud operation steps:

(1) login Xinje Cloud, add a new project.

云智造		≡ • H	ome / 🕘 Co	nfigure / 🕸 Confi	igure				
Home	<	Home	🔍 item 🚿	8 Settings ×	Manitor View ×	Configure	×		
l item	1	Search by key	word	Q,	Search by keyword .	Q	Ent	er project configura	tion
Configure		🖯 未分組			test	-	1	A_BOX	
Configure					0000		>)		
Set data collection									
Multifunctional Report					XD5E	_	→	abc001	\rightarrow
] SCADA screen 🗸 🗸					00000			0000	

(2) After entering the project, click "New Device", select the TS IoT model for the communication device, and then enter the ID number of the HMI and the TS5L password (remote password, 12345678 by default), which can be modified on the screen. The cloud platform limits 8 bits password, VNC password (123456 by default), and click Save.

Add device		×
* Device name:	TS5	
* Communication device:	TS物联网机型	~
TS5L ID:		
TS5L 密码:		
VNC 密码:		

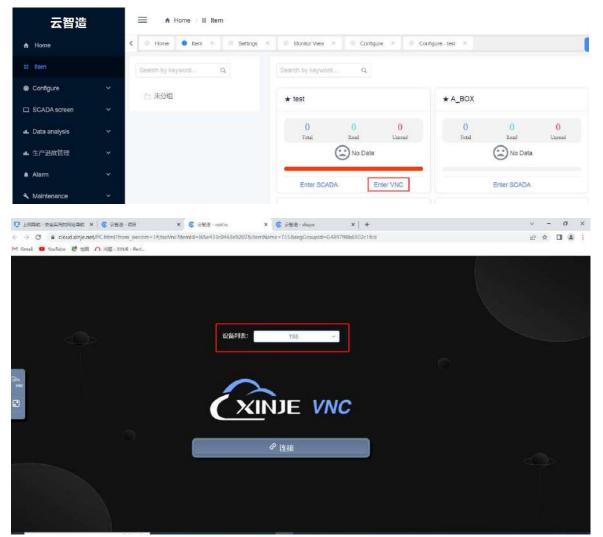
(3) Monitor in [device configuration]: click "refresh device" and monitor to see all the data.

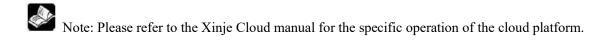
~ TS5L			♀ 监控 C Refresh device	Edit device Delete device		
	Name T	🗹 Data type	Total length	监控		

(4) Monitor in [data source]: after adding device, click "batch import", it will pop up a window. Select the device added just now, then select "import all" or "import part". After importing, click monitor to monitor the data.

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(5) Xinje Cloud VNC monitor: select the project, click "enter VNC". Select the device name, click connect, input correct VNC password (default is 123456) to enter VNC interface





8-6-3. Custom MQTT server

Operation steps:

(1) Enter information interface, click Data release, select custom MQTT server. Then set the server name and user name, password.

Status information	Networking settings	Remote settings	Online transmission	Data release
MQTT server co	onfiguration			
Se	rver type: Cus	tom MQTT serve	er.	~
6	rver name:			-
	1			_
F	Release me Ensi	ure successful pu	blishing once (o	. ~
Se	rver addre			
	User nam			
	Passwo		4	Þ
Resto	re	Read	- Ardes	Write
		nead		
Data configurati	ion			
Instruction	Comm	and I	nstruction	
2. 517/22			221A	
Instruction name	Communicatio device	n Instruction address	Data number	Notes
				-11

(2) Select the release mode as you need.

Custom MQTT server V
Ensure successful publishing once (o $ \sim $
Publish only once Publish successfully at least once (possib
Ensure successful publishing once (once

(3) Click Instruction, add the instruction to be monitored, click ok after adding.

MQTT server cor	almontains. A.	ttings Remote settings	Unline transmission	Data release		
Ser	ver type:	Custom MQTT serve	ir.	~		
Sen	ver name:					
B	Data instr	uction configuration				
Ser	Device	command				
Ser	Comma	nd		Communic Le	ocal Device	~
	- 2010000000				1 1.02	
	Data sp	eci Bit	~	Add metho Si	ingle addition	~
Resto	Data ob	jec PSB	\sim	Start addre	0.	0
	MQTT					
Data configuration	-			Triagor m	iggered when t	haval
Instruction	Data ty	pe BOOL(Bool)	~	nggern	nggereu wien a	ie vai +
Instruction	Trigge	r coless than	~	Minimu		\$
name						
	Maxi	mu	*	Publish ev		S
	rer	nat				

When adding or deleting device protocols in the system settings, it is necessary to download the project to the HMI in order to update the communication devices in the data command settings.

(4) After adding instructions, click on the application or ok button and power on the HMI again to complete the data publishing. After successful publishing, open the Cloud server and proceed to the next step.



Currently, port number settings are not supported;

The specific cloud server needs to be deployed independently and can be debugged using MQTT.fx; The message format can refer to 8-6-5 MQTT Data Explanation.

8-6-4. Aliyun server

Operation steps:

(1) Log in the Aliyun website (<u>https://www.aliyun.com/</u>). Log in to your account and open the IoT platform.



(2) Select manage the console;

物联网平台	
物联网干台提供全托管的企业级实例服务,具有低成本,展可等,高性能、展安全 施胆可建入各种主动的议设备,管理运输亿级规模设备,存储备份和处理分析Edi 现设备数据和边用数据的融合,实现设备管制化升级。	
同里云物就將平台生态伙伴又然說聲中,点击直算穿着开册名!	
立即购买 管理控制台 免费试用 产品文档 通交咨询 客户等	
立即周安 医理控综合 如果说用 产品文档 建交游离 客户4 产品优势 产品功能 产品规格 深值服务 应用场果	EN 开发者社区 客户宝明 接入方案 产品动态 文档专工具
产品优势 产品切配 产品规格 增值服务 应用场票	電子型明 :注入方案 产品动态 文档与工具
► 建成数 产品均能 产品规格 增佳服务 应用活案 优点活动	有户型例 接入方案 产品动态 文档与工具 重要功能

(3) Click Public instance.

实例概览 增值 ————————————————————————————————————	服务产品文档		
您还没有企	主业版实例		
企业版实例为物质	网平台的用户提供更丰富的功能、更好的数据	随高和更高的SLA保障,如需使用,点击下方按钮购买。	
1 购买企业	板实例	2 按需选购规格	< 0 fg
购买实例	快速入门		
试用 测试环境	介级企业版 @	1	
ALTERNATION OF STREET,	方级企业版 🔮		
公共实例	<u> 疗级企业版</u>	政 买企业版实例	
A STATE AND A STAT		购买企业版实例 企业版实例提供更主富的功能。更	
公共实例 ⊘ ट开通			
公共实例 ○ 己开通 ◎ iot-06z00blol29 ※ 2023/07/10	4w4t	企业版实例提供更丰富的功能,更	
公共实例 ◇ 己开邇 ◎ iot-06z00blol29		企业新实例提供更主富的功能。更 好的实现隔离,更高的 SLA 保障。	

(4) Create a product in the "Product" column of "Device Management", set relevant configurations, and confirm saving.

☰ (-) 阿里云 ◎	IAN RA	1998 - 2 4952 (£/€) ∽		Q 158
← 物联网平台	<mark>。</mark> [阿里云] [#	RR76] (PEXEMON	2例短結上現空更1 查書详信		
实例詳慎		-06c006lol294w4t / 设备管理	/ 产品		
设备管理	产品(试	设备模型)			
P #		i	设备接入流程概览		
iR#		Fter Victoriam	01 0œma	02 119210 ²⁸	
<u>இ</u> ன			P最差网最类级数的集合	02 创建设量获取创展于会所需的 身份信息	03 新聞物理型 デ展下的设置都会要求严思的 物理型
设备模拟器		1			
设备分发	9頭作品	快速入门 清照入产品	a Resta	11937年11日初始 ~	
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实例详情				RR / #114±/ RR	
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		新建产品 从设	备中心新建产品		
产品					
设备		产品名称			
分组		DeviceName			
设备模拟器	_	所属品类 🛛	-		
设备分发	C) 标准品类 🌘 自定	义品类		
		节点类型			
loT孪生引擎		2 直连设备	1000 · · · · · · · · · · · · · · · · · ·		
消息转发	~	~		4	
监控运维	~ <				
安全中心		至网与数据			
	Г	達阿方式 Wi-Fi		~	
仿真实验	L	rxi-Fi		× .	
文档与工具	_	usheri 🕖			
		ICA 标准数据格式(A	link JSON)	~	
		• 校验类型			
		,认证方式			
	T	1996息			
		,产品描述			
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日新版反演		确认 取消			

(5) In "Devices", click "Add Device", set a "DeviceName" for the device, and set relevant configurations;

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← 物联网平台	(阿里玉) [物形阿平台] [中国站旧版公共实的规格上现支更]:	26#A		
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23名 25日 25日 25日 25日 25日 25日 25日 25日	Developer S	(金田松)第1776 ¥2→1516(11年) 「「毎日 (金田町町745(11年)) DeviceName ● 155-1000 報注記令 ●	X NiceName 可以25位、当方应时、阿里云会把发产品下的 为 DeviceName。	
Grib Ir		题成	BINE	

(6) Click View - After entering the device, click "DeviceSecret" to view. Copy the device certificate with just one click. View "Region" as "East China 2 (Shanghai)".

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28420 28422 70257 70257	Topic 영종 연리 동안	10 GEDON	设备制子 文化	¥管理 日志振荡	ProductKey	jiûzjnFXFxe ≣ ₩			
28420 QSHLQ MISH HIZH HIZH QSHIR	Topic 列表 低的 同步 別で 202	136日日の2166 日本の7月日前に た ま 月15日 日 月15日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	设备制子 文件	中管理 日志服务	ProductKey DeviceName Riftsh Riftsh	jiQgpRX5xe 📰 T55-1000 ឆិការ -		以证方式 第14起来 章后上版时间	设督勾钥 - -
28420 QSHLQ MISH HIZH HIZH Q	Topic 제공 역전 편화 제공	136日日の2166 日本の7月日前に た ま 月15日 日 月15日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	设备影子 文(中管理 日志服务	ProductKey DeviceMarree Wittal	j102j0FX5xe 至¥ T55-1000 届♥ -		以证古式 南冲线率	设务实行 -
28430 28458 	Topic 列表 低的 同步 別で 202	初復型の第 回の2月2日前に た に 単語 3,07/10 20,0841 た 王	设备影子 文化	洋管理 日志振 吟	ProductKey DeviceName Riftsh Riftsh	jiQgpRX5xe 📰 T55-1000 ឆិការ -		以证方式 第14起来 章后上版时间	设备勾托 - -
28438 28428 「加多数 可は利益 第1249 9 45250日 当初以方 9 MOTTER##数	Topic 列表 電話 同分 외(石 202 末月	物模型的編 (1) (4) (5) (5) (5) (5) (5) (5) (5) (5)	设备制子 文化	1個現 日志振歩	ProductKey DeviceName Riftsh Riftsh	jiQgpRX5xe 📰 T55-1000 ឆិការ -		以证方式 第14起来 章后上版时间	设督勾钥 - -
Poduckey 記念様の 22名信号 記念様の POLS様 市る印刷 第三本称 ● 感知時間 読者があ ● MOLT 目標参加 (DAL) 学校内 (DAL) 学校内 (DAL) 学校内 (DAL) 学校内 (DAL) 学校内 (DAL) 学校内	Topic 列表 電話 同分 외(石 202 末月	物模型的編 (1) (4) (5) (5) (5) (5) (5) (5) (5) (5)	设备制子 文("管理 日古极劣	ProductKey DeviceName Riftsh Riftsh	jiQgpRX5xe 📰 T55-1000 ឆិការ -		以证方式 第14起来 章后上版时间	设督勾相 - -

(7) Connect to the IoT HMI, select "Aliyun Server Settings" in "Server Type", paste the one-click copied device certificate into the input box, and select "East China 2" for region information.

	设备证书:	"De	oductKey": "j10 viceName": "T		
	发布方式: 指定域名:	-	·		
恢复	地区信息:	华东2	读取	-1 -	~ 写入
据配置					27.5
指令添加		指令编辑	₽	指令删除	导入物模型
指令名称	通讯设	計	指令地址	数据个数	备注

(8) In the Aliyun IoT platform, select the created product in the product category, click "Function Definition", and then click "Edit Draft".

物联网平台	 (如重五) (如此刻平台) (中 							
957m	低限電子 () 0-060000023944 () 0-060000023944 () 0-060000023944 () 0-060000023944 () 0-060000023944 () 0-0600000023944 () 0-0600000023944 () 0-0600000023944	异测试	化进始新闻加加工			ProductSecret		
7 m 设备 方坦			皇崎村 服务确订成	设备开发 2	文件上传包置			
设备模拟器 设备分发		的功能定义,如要修改	8.11年 4618(2010)					
loT孪生引導 同戦攻 v	倍級入標中名均 Q	默认模块	Victor	(注前) 🗸	,	624 9	2502	1082×
	853.周诀	CONSIGNA.	1.000	1		1910 - 192 - 197	- manoual	A PACE A
シ ジロ会会						山末添加任何功能		
#5IR							· 服务三单功能和成于品物增益的定义。	〒最下

(9) Click "Add Custom Function" to define data names, types, units, etc. After adding the data, click "Publish Online". The current upper computer version only supports attributes, and the service and event functions have not been developed yet.

a irs e roenne v	皇 \$\$\$2 (上海) ~			Q	*	
(利重法) [初始與千台] [中日	1站日紙公共实例和增上很变更]	20116	添加自定义功能		×	
************************************		18 / 17965 x.	* 初始英型 @ 屬性 服务 事件 * 功能客称 @ 语输入网的功能名称			(10cgraf Xilson)開発
	8发布后,物模型才会正式生效。		* 15:1919 0			
传速导入 的模型 TSL	□ 安藤本 ↓		唐编入原的后说符			
HEART	默认棒块		* 数据英型			
	The subscription of the local division of th		int32 (#2070)		~	
默认提快	LEXI	Unice for	取 值 范围 最小项	- 最大語		SHE RU
- #Ranga	No.	Harin	歩 任 清 航入 歩 氏 単 位 通 氏 卒 単 位 * 成 写 か 型 * の 、 の 、 の 、 の 、 の 、 の 、 の 、 の 、 の 、 の	· · · · · · · · · · · · · · · · · · ·	0/100 800H	1 (22)

(10) Click on "Model TSL" and in the Perfect Model, select "Ctrl+A" and then "Ctrl+C" to copy or export the model file.

	题:武	直看物構型 ×
	9年后、御橋型は今正が主な。 历史版本 ~	物理型是对总器在云武站动物面面。包括设备的属性,提供和事件。他获用于合适过定义一种物能质透低高来质量物理型。称之为TSL(即Thing Specification Language)。采用ISON格式,您可以得出不整物模型。用于云涡位用开发:您也可以只想出标做物课题。配合设备等 SDK 实现设备开发。
1440.480.245 Q +	默认模块	戦なく戦争
默以横纹	14106/#998 18105 Distant	第283 完整約接型 藉始的接型
- 赤加倍)A	antes a	<pre>1.5 {}</pre>

(11) In data publishing, select the imported object model and paste it in the "Perfect Object Model JSON Text" using Ctrl+V. After pasting, click on "Import Object Model Text". Or directly import the object model Josn file.

服务器类型	L 277 CD - 075 4+ 39		完整物模型Json文本:	_
版分解实业	!: 阿里云服务器	,	identifier": "test", "name": "则试数据点", "access	"Node":
设备证书	<pre>i: { "ProductKey": "j1("DeviceName": "T "</pre>		「rw", 「required]: false, 「dataType": 1 「rype 「int", specs": 1 『int", "2147483648", 「max": "2147483647", "unit": "P", "unitNam 法," "step," 1" } }]], "events": "identifier": "post", "name": "post", "type";	e': ne": "\$P ! [{ 'info",
发布方式 □ 指定域名			"required": true, "deso": "属性上报", "method" 	r
地区信息	1: 华东2	,	datalype : 1 پر type : ۱ مثل , specs : 1 min": '-2147483648'', ''max": '2147483647'', ''unit": ''nP", ''unitName'' ''Wh#.''	t
恢复默认	凌取	1	「「「「」」」」」」」」」」」」」」」」」」」」」」」 「services」」[{identifier", "set",name", "set	et".
			「「「」」」「「async", "desc": "馬」	智性设 Hlata ^{**}
语配置			, method, thing service, property, set, input ("identifier": "test", "name": "J	则试数据
接配置 指令添加	指令编辑	指令删除	中山の山、北山原、Service, property.set / input 「「「「「「「「」」」「「」」」「「」」」」「」」「」」」「」」」「」」」「	则试数据 nax [″] :
		指令删除数据个数	中山の山、「山田」を中川のを、かりたり、ション・「山口山 今人物慎重 一 次、 「 dataType 」 「これ」「され」」、「本本」、「本本」、「本本」、 安一、 「 dataType 」 「これ」、「本本」、「本本」、「本本」、「本本」、「 ない」、「 はない」、「 これ」、「」、「」、「」、「」、「」、「」、「」、「」、「」、」、「」、「」、」、「」、」、「」、」、「」、」、「」、」、「」、」、」、「」、」、」、」、」、「」、」、」、」、」、」、」、「」、」、」、「」、」、」、「」、」、」、「」、」、」、、」、	则试数据 nax [~] : ane [~] : }
指令名称 通讯			□ A meinod thing service property.set input 同人物慎重 一 「 dataType 」 isat type: int , same 3 反 「 dataType isat type: int , same 3 反 「 dataType isat type: int , same 3 反 「 dataType isat type: int , same 3 方 」 , couputDetate 1 」 , couputDetate 1] , couputDeta	DN式数据 nax [×] : ane [×] : , } ; ;
指令添加 指令名称 通讯	设备 指令地址	数据个数	□ □ □ □ □ □ □ □ □ □ □ □ □ □	则试数据 nax ^(*) ; ane ^(*) ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
指令添加 指令名称 通讯	设备 指令地址	数据个数	P人物授型 A meinod . thing service property.set . input idantifiar itst, "ist," name i 2 p, "dataType", 'type". "int", specs", 'dataType", 'type". "int", "2147483647", "unit": "I", 'unitNa 我法, "outputDeta", [], { 'identifier', "get", "name", "get, "required, true, "callype," asyno "descore" "爾姓茲取, "nethod": 'thing service, property, service, "inputDeta", "test", "outputData", [], "inputDeta", "test", "outputData", [], "inputData", "test", "outputData", []," "identifier": "test", "outputDatata", []," "identifier": "test", "outputDatata", [],"	则抗式数据 nax [*] : **** ane ^{**} : * **** **** {
指令添加 指令名称 通讯	设备 指令地址	数据个数		则试数据 nax ²⁰¹ 1 ane ²⁰¹ 1 ane ²⁰¹ 1 ane ²⁰¹ 1 ane ²⁰¹ 1 ane ²⁰¹ 1 ane ¹⁰¹ 1 an ¹

(12) Select the command to add. At this point, the relevant data points can be selected. Once the settings are complete, click on Apply, download the program, or restart to complete the relevant settings.

数据指令配置	I			- 🗆 X	信息化设置				0 -
设备指令		-			状态信息 联网设置 MOTT服务器配置		盖 在线透传 数据2	(布)	
SINGLAD	测试数据点	✓ 通行	。设备: 本地设备	~		5 器 类型:	何里云服务器		~
ALICIAN	》记数语点 Word	利利	防式: 单个添加	w.	1	建建工书:	{ *ProductKey*:	"j10zjnFXFxn",	^
数据对象:	PSB		地址 0	0			"DeviceName"	* "T\$5-1000",	*
	150	V Bec		. 0	-	运动方式: 1定域名:	只发布一次		~
MQTT					t l	的区信息;	华东2		*
数据类型:	INT325(双字十进制数)	· · · · · · · · · · · · · · · · · · ·	发方式: 值改变时触发	₩ 2 ×	恢复默	il.	读取		写入
	1.5 × - 4		in the second	1771	数据配置			0.0000000	
触发条件:	小于	2	最小值:	*	括令添加	1	括令編輯	指令删除	导入物模型
最大值:		* *	间隔:	S	指令名称 別式数据点	通讯设	A STATISTICS AND A	数据个数 1[DWord]	备注
备注									
			确定	取消	一鍵友布			应用 疑	定 取消

8-6-5. MQTT Data Explanation

- *Chinese characters in Json format: UTF-8
- Client ID name: IDPWDUserdata

■ TOPIC

Function name	Туре	Topic	Explanation
Report Configuration	release	ID+PWD/pub configlist	Retain type, click on the application to publish once
List		1 _ 0	
Data reporting	release	ID+PWD/pub_data	The device actively reports real-time data
Data control request	subscribe	ID+PWD/write_data	Platform side initiates data point control request
Data control reply	release	ID+PWD/write_reply	Device side reply data control result
Proactively obtaining	subscribe	ID+PWD/access data	Obtain data
data		_	

Report configuration list

Title	ID+PWD/pub configlist
Release conditions	The client clicks "Apply" once to publish it; Retain type.
release conditions	Add system data tables by default.
payload instance	{
Falliona monare	
	"Unix": "1614576888000", "Version": "V1.0",
	"Configlist": {
	"Device 1": [{ "Order name": "temperature",
	"Order_ID": "43912342299231234+0",
	"Order_type": "INT8S"
	}, { "Order name": "length",
	"Order_ID": "43912342299231234+1",
	"Order_type": "Float"
	}, { "Order name": "yield[6]",
	"Order ID": "43912342299231234+2",
	"Order_type": "Float" }],
	"Device 2": [{
	"Order_name": "temperature",
	"Order ID": "43912342299231234+3",
	"Order type": "INT8U"
	}, {
	"Order name": "length",
	"Order ID": "43912342299231234+4",
	"Order type": "Float"

		<pre>}, { "Order_name": "yield[6]", "Order_ID": "43912342299231234+5", "Order_type": "Float" }], "Localghost": [{</pre>
		"Order_ID": "43912342299231234+6", "Order_type": "Float" }, { "Order_name": "GPS longitude ",
		"Order_ID": "43912342299231234+7", "Order_type": "Float" }, { "Order_name": "System runtime [4]",
		"Order_ID": "43912342299231234+8", "Order_type": "INT8S" }]
		}
parameter	Unix	The time of publication, formatted as a millisecond level UNIX timestamp (in milliseconds since 1970).
	Version	Protocol version number, the current protocol version is fixed to "V1.0".
	Configlist	Root node of device list.
	Device 1, device 2	The name of the added device in data publishing.
	Order_name	The instruction name, if followed by "[6]", indicates that the instruction is batch added, and the length is the number of batch additions.
	Order_ID	Instruction ID, unique, is a unique identifier used to bind data to the cloud platform.
	Order_type	Data type (Pay attention to distinguishing between uppercase and lowercase letters) Bool/INT8U/INT8S/INT16U/INT16S/INT32U/INT32S/INT64S/Float/Double/Char[]

Data	reporting
------	-----------

- Dum reporting	
Title	ID+PWD/pub_data
Report real-time data	{
	"Variant": [{
	"Unix": "1614576888000",
	"Version": "V1.0",
	"Pub_Data": {
	"Device 1": {
	"temperature": 23,
	"humidity": 50.23,
	"yield[6]": [12, 32, 43, 53, 15, 53]

		}
		}
		}]
		}
parameter	Variant	Root node, array format.
	Unix	The time of publication, formatted as a millisecond level UNIX timestamp (milliseconds since 1970)
	Version	Protocol version number, the current protocol version is fixed to "V1.0".
	Pub_data	Data root node.
	device 1, device 2	The name of the added device in data publishing.
	Instruction key value pairs	If the instruction name is followed by "[6]", it indicates that the instruction is batch added, and the value of the data is the actual value of the batch added data.
	ssage cache	
d	ata	"Variant": [{
		"Unix": "1614576888000", "Version": "V1.0",
		"Pub Data": {
		"device 1": {
		{ "
		temperature": 23,
		"length": 50,
		"yield[6]": [12, 32, 43, 53, 15, 53]
		}
		"device 2": {
		"temperature": 23,
		"length": 50,
		"yield[6]": [12, 32, 43, 53, 15, 53]
		}
		}
		"Unix": "1614576400000",
		"Version": "V1.0",
		"Pub_Data": {
		"device 1": {
		"temperature": 44,
		"length": 50,
		"yield[6]": [12, 32, 43, 33, 15, 53]
		}, "device 2" (
		"device 2": {
		"temperature": 13, "length": 60,
		"yield[6]": [12, 32, 123, 53, 15, 53]
		Jana[0] · [12, 02, 120, 00, 10, 00]

}
}
}
]
}

Data control request

Title		ID+PWD/write data
payload	Write single	
payload instance	Write single or multiple pieces of data	<pre>{ "Unix": "1614576888000", "Version": "V1.0", "Write_Data": { "device 1": { "temperature": 20, "length": 16, "yield[2]": 55, "yield[4]": 22 }, "device 2": { "temperature": 20, "length": 16, "yield[2]": 55, "yield[2]": 55, "yield[2]": 55, "yield[2]": 22 }, "device 2": { "temperature": 20, "length": 16, "yield[2]": 55, "yield[2]": 22 } } }</pre>
Parameter	Unix	} The time of publication, formatted as a millisecond level UNIX timestamp (milliseconds since 1970)
	Version	Protocol version number, the current protocol version is fixed to "V1.0".
	Write data	Root node.
	device 1, device 2	
		The name of the added device in data publishing.
	Instruction	If the instruction name is followed by "[]", it indicates that the instruction is batch
	key value	added, and "[2]" is offset, referring to the third production data
	pairs	

■ Data control request reply

Title	ID+PWD/write_reply
Payload instance	{
	"Unix": "1614576888000",
	"Version": "V1.0",
	"Write_Reply": {
	"device 1": {

		"temperature": "OK",
		"length": "OK",
		"yield[2]": "OK",
		"yield[4]": "OK"
		},
		"device 2": {
		"temperature": "ERROR0",
		"length": "ERROR1",
		"yield[2]": "ERROR2",
		"yield[4]": "ERROR0"
		}
		}
		}
Parameter	Unix	The time of publication, formatted as a millisecond level UNIX timestamp (milliseconds
		since 1970)
	Version	Protocol version number, the current protocol version is fixed to "V1.0".
	Write_data	Root node.
	device 1, device 2	The name of the added device in data publishing.
	Instruction	If the instruction name is followed by "[]", it indicates that the instruction is batch added,
	key value	and "[2]" is offset, referring to the third production data
	pairs	Execution result: OK: Execution succeeded
		ERROR0: Write value failed
		ERROR1: The instruction was not found
		ERROR2: Other errors

Obtained data

1	Title	ID+PWD/access_data
Payload instance		{
		"Unix": "1614576888000",
		"Version": "V1.0",
		"Content": "savedata"
		}
Parameter	Unix	The time of publication, formatted as a millisecond level UNIX timestamp (milliseconds
		since 1970)
	Version	Protocol version number, the current protocol version is fixed to "V1.0".
	Content	"savedata": data of saving traffic mode
		"alldata": all the data
		"systemdata": system data

Note: After subscribing to messages on the TS series IoT HMI, the returned data is published through "ID+PWD/pub_dat a".





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