

VM-RTU-ECT Module

Manual

Stock Code: 688698

VM-RTU-PN Communication Interface Module

Manual

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Veichi Electric Co., Ltd. provides customers with a full range of technical support, so users can reach the nearest Veichi Electric Co., Ltd. office or customer service center, or the company headquarters directly.

Veichi Electric Co.

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Preface

Profile

VM-RTU-PN is a PROFINET communication interface module of VM series. It supports PROFINET communication and fits for PROFINET master devices such as Siemens S7-1500 and S7-1200. One PROFINET communication module unit can connect up to 16 VM series common IO modules. When there are more than 16 modules, it is necessary to add a VM-RTU-PN communication interface module for power supply (every expansion of 16 IO modules requires an additional VM-RTU-PN communication interface module for power supply).

Version Change Log

Revision date	Version	Content
2023-3	A1.0	
2022-11	A1.0	First release of the manual

Manual Access

This manual is not shipped with the product, so users can get its PDF version in the following way:

- Log on to the official website of Veichi Electric (www.veichi.com), "Service and Support-Download", type in keywords and download.
- Scan the QR code on the product body to get the manual with mobile phone.

Warranty Statement

If malfunctions or damage occur on the product under normal use, Veichi Electric offers 18-month warranty (from the date of shipment from the factory, subject to the bar code on the body, and in accordance with the agreements between parties if there are some). Customers will be charged if it exceeds 18 months while damages caused by the following conditions will be charged if it is within 18 months.

- Product damage caused by wrong methods against this manual.
- Product damage caused by fire, flood, or abnormal voltage.
- Product damage caused for abnormal functions against this manual.
- Product damage caused for unspecified purposes against this manual.
- Secondary damage to the product caused by force majeure (natural disasters, earthquakes, lightning strikes) factors.

The relevant service costs are calculated according to the manufacturer's standards, and if there is a contract, the contract will be handled on a priority basis. Please refer to the Product Warranty Card for detailed warranty description.

Safety Precaution

Safety Statement

- Read and follow these safety precautions before installing, operating, and maintaining the product.
- Follow all safety precautions stated on the product's labeling and in the manual when installing, operating, and maintaining the product for personal and equipment safety.
- The "CAUTION", "WARNING" and "DANGER" items in this manual do not mean all safety precautions to be observed, but are only supplementary to safety precautions.
- This product shall be used in an environment that complies with the design specifications, otherwise it may cause malfunction, and malfunction or damage to parts caused by failure to comply with the relevant regulations are not covered by the product warranty terms.
- Veichi will not take on any legal responsibility for personal safety accidents, property damage, etc., caused by unauthorized operation of the product.

Safety Level Definition

Anger : "DANGER" means death or serious bodily injuries if not operated in accordance with the regulations.

WARNING : "WARNING" means death or serious bodily injuries if not operated in accordance with the regulations.

CAUTION : "CAUTION" means minor bodily injuries or damage to the equipment if not operated in accordance with the regulations.

Keep this guide in a safe place in case it is needed, and be sure to give this manual to the end user.

During Control System Design

🚺 DANGER 🗄

- \triangleright Be sure to design safety circuits so that the control system will still work safely when the external power supply drops out or the programmable controller malfunctions;
- \triangleright If the rated load current is exceeded or the load is short-circuited, etc., resulting in prolonged overcurrent, the module may smoke or is on fire, so safety devices such as fuses or circuit breakers shall be installed externally.

WARNING :

> Be sure to provide emergency brake circuits, protection circuits, interlock circuits for forward and reverse operation, and upper and lower position interlock switches to prevent damage to the machine in the external circuits of the programmable controller;

- Design external protection circuits and safety mechanisms for output signals related to major accidents for safe operation of the equipment;
- The programmable controller CPU may stop all output when it detects an abnormality in its own system; when some of the controller's circuits fail, output may turn uncontrolled. Please design suitable external control circuits in order to ensure normal operation;
- Damage to output units such as relays and transistors of programmable controllers will cause their output uncontrolled to the ON or OFF state;
- The programmable controller is designed to be used in indoor, overvoltage class II electrical environments, and its power supply system should be equipped with lightning protection to ensure that lightning overvoltage is not added to the programmable controller's power input or signal input, control output and others, so as to avoid damage to the equipment.

Installation

WARNING :

- Only maintenance professionals with adequate electrical knowledge and training related to electrical equipment should carry on installation work;
- When removing or installing a module, the external power supply to the system must be completely disconnected beforehand. Failure to fully disconnect the power supply may result in electric shock or module malfunction and misoperation;
- Do not use the programmable controller in the following places: places with dust, grease, conductive dust, corrosive gases, flammable gases; places exposed to high temperature, condensation, wind and rain; and places subject to vibration and shock. Electric shock, fire, and misuse can also cause damage and deterioration to the product;
- Programmable controllers are open type devices, please install them in control cabinets with door locks (protection of the control cabinet housing > IP20), and only operators who have been trained with sufficient electrical knowledge about equipment shall open the control cabinets.

CAUTION :

- Avoid metal shavings and wire ends falling into the ventilation holes of the controller during installation, which may cause fire, malfunction, and misoperation;
- Ensure that there is no foreign matter on its ventilation surface after installation, otherwise it may lead to poor heat dissipation, which may cause fire, malfunction, and misoperation;
- Connect the modules tightly to their respective connectors and lock the module connection hooks securely.
 Improper installation of the module may result in malfunction, malfunction and disconnection.

Wiring

Anger :

Wiring of this product should only be carried out by specialized maintenance personnel with adequate

electrical knowledge and training related to electrical equipment;

- During wiring, the external supply power to the system must be fully disconnected in advance. Failure to do so may result in electric shock or equipment failure or malfunction;
- The terminal cover supplied with the product must be installed before power-up and operation. Failure to install the terminal cover may result in electric shock;
- The cable terminals should be well insulated to ensure that the insulation distance between the cables is not reduced after the cables are installed in the terminal block. Failure to do so may result in electric shock or equipment damage.

CAUTION :

- > To avoid electric shock, disconnect the power supply before connecting the power supply to this product;
- The input power supply of this product is DC24V, if the supplied power is not within ±20% of DC24V, this product will be seriously damaged. Therefore, please check whether the DC power supply provided by the switching power supply is stable or not regularly.

Maintenance

CAUTION :

- Only specialized maintenance personnel with adequate electrical knowledge and training related to electrical equipment shall carry out the operational maintenance of the product;
- When cleaning the module or re-tightening the bolts on the terminal strip or connectors, the external power supply to the system must be completely disconnected. Failure to do so may result in electric shock;
- When disassembling a module or making connections to or removing communication cables, the external supply power to the system must first be completely disconnected. Failure to fully disconnect may result in electric shock or malfunction.

Safety Recommendations

- Please consider the manual installation or other spare methods that are separate from PLC to stop or start the system when there are mechanical parts that will be touched directly by operators like position of loading/unloading tools or parts with auto running function.
- If it is necessary to modify the programs while the system is in operation, please consider to add locks or other safeguards to ensure that only authorized personnel can make the necessary modifications.

Scrapping

CAUTION :

- Dispose of this product as industrial waste, and the batteries should be handled separately in accordance with local laws and regulations;
- Dispose of equipment and products in accordance with industrial waste disposal standards to avoid environmental pollution.

1 Product Information

1.1 Naming Rules and Nameplate Description





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1.2 Component Description



No.	Interface	Function definition			
1	Signal	PWR	Power indicator	Green	On when the power is turned on
	indicator	RUN	Run indicator	Off	PN module is initializing
				Flashing (green)	PN module is in parameter configuration or waiting for master connection.
				On (green)	PN module communication is normal
		ERR	ERR Communication		PN communication is normal
			fault indicator	On (red)	PN has no right extension module or the total extension communication is in error.
				Flashing (red)	Inconsistent configuration of expansion modules
		SF	Module fault	Off	Device is normal
			indicator	On (red)	No connection
				Flashing (red)	Connection successful, but no communication data interaction
2	Type-C interface	For singl	e signal software up	ograde	
	PROFINET	IN: PROFINET input port			

3	interface	OUT: PROFINET output port for connecting a next PROFINET slave.
(4)	24V power	Module power input terminal
	supply	

1.3 Specification

1.3.1 Power Specification

Item	Specification		
Rated voltage of terminal input voltage	24V DC (20.4V DC~ 28.8V DC)		
Rated current of terminal input power supply	0.6A (typical at 24V)		
Rated voltage of bus output power supply	5V DC (4.75V DC~5.25V DC)		
Rated current of bus output power supply	2A (typical at 5V)		
Power output derating	85% derating at 55°C operation (output current up to 1.7A) or 10°C derating at 2A output		
Isolation	None		
Power supply protection	Overcurrent protection, anti-reverse connection protection, surge absorption		

1.3.2 Software Specification

Item	Specification
Physical layer	100 BASE-TX
Communication rate	100 Mbit/s(PROFINET)
Communication method	Full duplex
Topology	Line, star, tree, etc.
Transmission medium	Super Category 5 and above
Transmission distance	<100 meters between two nodes
Number of expansions	Total 16 units, including IO and special modules
Backplane speed	100M
Communication mode	RT mode
Communication cycle	Min. 1ms
Backplane bus compatibility	Compatible protocols between remote module and local module
PROFINET interface	2
Stop output mode	Output according to fault stop mode and preset value, no more

	refreshing
Firmware upgrade	USB firmware upgrade

1.3.3 Environmental Specification

Item	Specification
Environmental working temperature	–20°C~55°C
Environment working humidity	Relative humidity < 95% RH (no condensation)
Air	No corrosive gas
Environment storage temperature	-20°C~60°C, relative humidity < 95% RH (no condensation)
Power output derating	85% derating at 55°C operation (output current not above
	1.7A), or 10°C at 2A output
Altitude	Below 2000 meters (80kPa)
Pollution level	Level 2
Anti-interference	Power cord 2Kv (IEC 61000-4-4)
Overvoltage level	П
EMC immunity class	Zone B, IEC61131-2
Vibration	IEC 60068-2-6 5Hz~8.4Hz, amplitude 3.5 mm, 8.4Hz~150
	Hz, acceleration 9.8 m/s2, 100 minutes in each direction of
	X, Y, Z (10 times, 10 minutes each time, total 100 minutes)
Impact	IEC 60068-2-27, 9.8m/s2 , 11ms, X/Y/Z, 3 times in each of
	the 3 axes and 6 directions

2 Mechanical Installation

2.1 Mounting Dimensions

2.1.1 Module

Mounting dimension information is shown below in (mm).



2.1.2 Connection Cables



2.1.3 Rear Cover



2.2 Installation

2.2.1 Inter-module Installation

Before installing the module, remove the rear cover in the direction indicated before proceeding to the next step as shown in the figure below.



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Inter-module assemblies are slide-mounted via the top and bottom rails.



2.2.2 Rail Installation

DIN rail mounting is adopted here. When installing, align the module with the DIN rail and press the snap until there is a clear click sound. As shown in the figure below.



Note: After the module installation is completed, the snap will automatically rebound to lock the DIN rail, if the snap does not rebound, please press it down on the top of the snap by hand to ensure that the installation is in place.



2.2.3 Rail Disassembly

Push the rail snap with your finger and pull the module out in the direction away from the DIN rail.



3 Electrical Installation

3.1 Cable Selection

3.1.1 Communication Cables

Use shielded layer network cables for network data transmission among PROFINET bus communication without short circuit, misalignment and poor contact; the length of the cables between the devices should not exceed 100m, longer cables may cause signal attenuation so to reduce the normal communication. The following specifications of network cable are recommended:

Item	Specification
Cable type	Flexible crossover cables, S-FTP, CAT 5
Standards	EIA/TIA568A, EN50173, ISO/IEC11801 EIA/TI Abulletin TSB, EIA/TIA SB40-A&TSB36
Cross section	AWG26
Conductor type	AWG26
Wire pair	4

3.1.2 Power Cables

The wire lug diameters in the following table are for reference only, and it can be rationally calculated according to the actual use.

Material name	Wire diameter		
	PRC standard /mm2	American standard (US) /AWG	
Tube lug	0.3	22	
	0.5	20	
	0.75	18	
	1.0	18	
	1.5	16	

If other tube lugs are used, crimp them to the stranded wire, shape and size are required as shown below.



3.1.3 External Interface Specification

Interface type	Interface	Cable/Max.	Function definition	User terminal	Performance
	Name	length			
PROFINET	PROFINET	Shielded	PROFINET	RJ45 network	100Mbps
interface		cable/100 m	communication	port*2	(100BaseTX)
			interface		
Power supply	24V input	3-core	24V input	6PIN	24V/1A
		unshielded		pluggable	
		cable/20 m		terminal	

3.2 Terminal Wiring



4 Troubleshooting

4.1 Indicator Diagnosis

LED i	ndicator	Description	Cause	Solution
ERR	On	No modules scanned	1. Expansion module	1. Check whether the expansion
		for this protocol	does not exist	module is normally installed and
			2. Local bus	powered up
			communication is	2. Check the communication
			not scanned to the	interface contact of the expansion
			expansion module	module or restart the whole
				system
				3. Check whether the
				specification and length of the
				network cables are consistent
				with the regulations.
	Flashing	1. The number of	1. The actual slot of	1. Check the number of
		configuration IO	the expansion	expansion modules and the
		modules are more	module is	installation order
		than the actually	inconsistent with	2. Check the communication
		scanned.	configuration.	interface contact of the expansion
		2. The number of	2. Local bus	module or restart the whole
		configuration IO	communication	system
		modules are fewer	failure leads to	
		than the actually	inconsistency	
		scanned.	between the scanned	
		3. Configuration IO	module and the	
		module type and the	configuration.	
		actual scanned type		
		is not consistent.		
SF	On	1. IO module	1. Local bus	1. Check the communication
		configuration failure	communication	interface contact of the expansion
		2. IO module state	failure results in	module or restart the whole
		switching failure	errors when the	system
		3. IO module dropout	master module	2. Check whether the module in
			interacts with the	the corresponding slot is powered

	expansion module	down or unplugged.
	2. lO module power-	3. Check the contact condition of
	down or unplugged	the communication interface of
	local bus	the expansion module or restart
	communication loss	the whole system.
	of frame rate is too	
	high, report the fault	

4.2 Share_in and Share_out Instruction

4.2.1 Share_in

The first 2 bytes of Share in will be refreshed in real time, corresponding to the local bus status, PROFINET communication status, and the values in normal state: 0x01 (local bus), 0x02 (PROFINET communication), and 0X05 (version information) can be used for program judgment.

Address	Description	Values and Meaning
Share in 1 st byte	Local bus	1: normal 2: communication error 3: no expansion
		module
		4: inconsistent configuration
Share in 2 nd byte	PN bus	1: no connection 2: successful connection
Share in 3 rd byte	PN coupler software version	Current version number
Share in 4 th byte	Displayed according to share	Slot n module diagnostic information:
	out 1st byte value	4th byte: slot n module hardware fault information 0:
		no fault
		5th byte: slot n module channel 1 fault information
		Bit0 is 1 for disconnection, Bit1 is 1 for over limit
		6th byte: Slot n module 2nd channel fault information
		7th byte: Slot n module 3rd channel fault information
		8th byte: Slot n module 4th channel fault information

4.2.2 Share_out

Share_in will be displayed according to the value of Share_out from the 4th byte onwards. Share_in and Share_out modules need to be present at the same time and please enter the corresponding value in Share out.

Address	Description	Values and Meaning
Share_out 1 st byte	Input value	0x10: Slot 1 module fault message
		0x11: Slot 2 module fault message

	0x1E: Slot 15 module fault message
	0x1F: Slot 16 module fault message

5 Use S7-1500 with VM-RTU-PN

Use S7-1500 and Veichi PN coupler distributed IO device to create the project. The case is illustrated using the PN communication between S7-1500 CPU and VM-RTU-PN as an example. (The same as S7-1200 CPU)

Hardware:

- 1. S7-1500 -CPU 1511-1PN;
- 2. VM-RTU-PN coupler, VM-0808ETN module;

Software: TIA Portal V16

5.1 Create A S7-1500 Project

1. Open TIA-PortalV16, "Project" - "Create new project" as shown in Figure 1.



Figure 1 New project

2. Double click "Add new device" to select controller model (S7-1500) and CPU version type. (Users can choose according to the actual CPU model) As shown in Figure 2.



Figure 2 CPU model selection

5.2 GSD File Installation

 After finishing the above steps, install the GSD device description file. In the menu bar, select "Options" -"Manage general station description files (GSD)", select the GSD path in the pop-up window, check the installation.
 As shown in Figure 3 (GSD file can be downloaded from the Veichi official website)



Figure 3 GSD file installation

5.3 Device Configuration

Transient tid view inset Online Options Tools Mindow Help Totally Integrated Automation PORTALL PORTS P

1. Add VM-RTU-PN device configuration and connect the configuration as shown in Figure 4:

Figure 4 PN device configuration

2. Double-click the "VM-RTU-PN" device in the configuration, and then enter the "Device view" window to configure the modules. Add VM-0808ETN, Share_in and Share_out modules in turn, then the software will automatically assign I address, Q address and Share_in and Share_out parameters as shown in Figure 5.



Figure 5 Module configuration

Note: As can be seen from the figure, the input address A1-A8 of VM-0808ETN is mapped to IB0 (I0.0-I0.7); the output address B1-B8 is mapped to QB0 (Q0.0-Q0.7); the Share_in monitoring information is assigned to IB1~IB32, and the Share_out monitoring information is assigned to QB1~QB32.

5.4 IP Address and Device Name Assignment

1. After completing the device configuration, start to set the IP address and device name. Note that the IP address and device name must be set or communication will not be successful. (Keep the IP address in the same network segment)



Master setup: as shown in Figure 6

Figure 6 Master IP address setting

Slave setup: as shown in Figure 7

				- Nota	ork viou		
							evice view
			evice overview				
			🔐 Module	Rack	Slot	I address	Q address
TUPT			 VM-RTU-PN 	0	0		
IN R.			Interface	0	0 X1		
~		_	VM-0808ETN_1	0	1	0	0
		•	Share IN_1	0	2	132	
			Share OUT_1	0	3		132
	4	•		0	4		
_	DP-NORM			0	5		
				0	6		
				0	7		
		~		0	8		
<	> 100%		<				>
			Dresseties	1 Infa (
			Properties	Linto Q		agnostics	
General IO tags Syste	m constants Texts						
PROFINET interface [X1]							
General	Interface networked with						
Ethernet addresses 3							
 Advanced options 	Subnet: PN/IE_1						•
Interface options		Add new subnet					
Media redundancy							
Isochronous mode	IP protocol						
 Real time settings 							
IO cycle	IP address: 192	168 . 1 . 3					
Synchronization –	Subnet mark: 255	255 255 0	-				
Port 1 - RJ45 [X1 P1 R]	4 255.	255.255.0					
Port 2 - RJ45 [X1 P2 R]	Sync	hronize router s	ettings with IO controller				
Identification & Maintenance	Use	router					
Hardware interrupts	Router address: 0						
	DROEINET						
	PROFINEI						

Figure 7 Slave IP address setting

2. Right-click coupler and select "Assign PROFINET device name" and "Update List", when it is used for the first time, the IP address and device name of coupler are blank, select the device that needs to be assigned a name and click "Assign name". As shown in Figure 8

VM-RTU-PN → Ungrouped devices → VM-RTU-PN [VM-RTU-PN]							
	Assign PROFINET device	e name.					×
👉 (VM-RTU-PN) 🔽 🖽 🖽 🖽 🔍 ±			Configured PROF	INET devi	ice		
		2. Select	PROFINET device	name:	vm-rtu-pn		-
•			Devi	ce type:	VM-RTU-PN		
			o. !'				
			Online access				_
SV			Type of the PG/PC in	iterface:	PN/IE		
			PG/PC in	iterface:	ASIX AX88179A USB	3.2 Gen1 to Gigabit Et	h 💌 🛡 🖳
			Device filter				
DP-NORM			🖌 Only show d	devices of th	e same type		
			Only show o	devices with	bad parameter settings		
			Only show o	devices with	outnames		
		Accessible devi	ces in the network:				
1. Right click		IP address	MAC address	Device	PROFINET device name	Status	
		192.168.0.2	76-00-00-00-34	VM-RTU-PN	vm-rtu-pn	💙 ок	
							4
	Plash LED						-
		<					X
					()	Jpdate list	Assign name
X III X 100%	-						
	•						\sim
	Online status information					,	
General Cross-references Compile	Search completed	I 1 of 2 devices we	re found				
🕄 🛕 🚺 Show all messages 🖃	- Search completee	. I of 2 devices me	re lound.				
! Message	<			Ш			>
✓ 默认变量表' was loaded successfully.							
Loading completed (errors: 0; warnings: 0).							
 Start downloading to device. PIC 1 							Close
 Hardware confirmation 							

Figure 8 Assign names

3. The software automatically configures the IP addresses and PROFINET device names successfully (IP and PROFINET device names set by the slave in 5.4). As shown in Figure 9

ssign PROFINET device	e name.					
		Configured PRO	FINET dev	ice		
		PROFINET devic	ce name:	vm-rtu-pn		•
		Dev	vice type:	VM-RTU-PN		
		Online access				
		Type of the PG/PC i	interface:	PN/IE		-
		PG/PC i	interface:	ASIX AX881	79A USB 3.2 Gen1 to Gigabi	t Eth 🔻 💎 ⊴
		Device filter				
		🖌 Only show	devices of th	ie same type		
		Only show	devices with	bad paramete	r settings	
		Only show	devices with	outnames	-	
	Accessible devi	ices in the network:	Davias	PROFINIST davi		
	192.168.0.2	76-00-00-00-34	VM-RTU-PN	vm-rtu-pn		
Flash LED						
	<					>
					Update list	Assign name
Online status information						
 Search completed 	I. 1 of 2 devices we	ere found.				
<						>
						Close

Figure 9 Assign names

5.5 Hardware Configuration Download

 Click on "Compile" - "Hardware Complete Rebuild", and then "Hardware configuration download", and the hardware configuration download is complete. Click "Compile" - "Software rebuild", download the software (all download), click "Go online" communication will show a successful check as shown in Figure 10

En 13	oject Edit View Insert Online Opt	io <u>n</u> s K	Tools	Window Help	l Go online 🛷 Go	offline 🎝 🕅 🖪 🗙		ch in project>	-								
	Project tree	Ű	4	VM-RTU-PN + Devices &	networks	i and and an of the		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								-	I I X
	Devices											🚽 Topolo	gy view	🔒 Netwo	ork view	Y Device v	/iew
	商		3	Network Connections	HM connection	- Relations		🔲 🔍 ±		4	Netv	ork overview	Conne	ctions	Relations		4 1
rks										^	-						
Å.	▼ → VM-RTU-PN		~									evice	10 at at a 1	Type 571500/6	TOOLBANK	Address in :	subnet
2	Add new device				~					=		 S71500/E1200/ BLC 1 	w station_i	CPIL 1511	1200MF Station		
2	🚠 Devices & networks			PLC_1	VM-RTU-PN							SED device 1		GSD davi			
8	PLC_1 [CPU 1511-1 PN]	V •		CPU 1511-1 PN	VM-RTU-PN	DP-NORM						 GDD GEVICE_1 MARTILIPNI 		VAAPTILP	M		
ē.	Device configuration				PLC_1							· ·····		VINING			
-	😼 Online & diagnostics			—													
	Software units				DM//E 1					- 11							
	🔻 🛃 Program blocks	•			FIGUE_1												
	Add new block									-							
	🖀 Main (OB1)	•															
	Technology objects																
	External source files																
	PLC tags	•								1							
	PLC data types																
	Watch and force tables																
	Online backups																
	🕨 🔄 Traces									- 11							
	OPC UA communication																
	Device proxy data									- 11							
	Program info																
	PLC supervisions & alarms																
	PLC alarm text lists																
	Online card data																
	 Local modules 	~	l k	el m]			1000		0	Ě						1	
	PLC_1 [CPU 1511-1 PN]	~	Шł				2 100%			-		-	1		_		/
	 Distributed I/O 	~										🔍 Pro	perties	1 Info	Diagnos	tics	
	 PROFINETIO-System (100) 	<u> </u>		General Cross-refe	rences Com	pile											
	VM-RTU-PN [VM-RTU-PN]	×	- 1														
	Ungrouped devices	-		🗢 💶 show all messag	es 🔹												
	• Cui vm-kiu-PN (VM-RTU-PN)	×															
	U Device configuration		Ť	! Message				Go to ?	Date	Т	me						
		/	-	 Loading completed (e 	errors: 0; warnings: 0)).			9/1/2023	3 3	:43:29 PN						^

Figure 10 Device configuration completed

5.6 Programming-Downloading-Online Monitoring

1. Add %M0.0 and control output %Q0.0 in Main[OB1] program, and then "Compile" - "Download" - "Go Online" - "Monitor", right-click to change the monitor value to 1, as shown in Figure 11 below.



Figure 11 Online monitoring and commissioning



SUZHOU VEICHI ELECTRIC Co.,Ltd.

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