

VC-24V5POW Expansion Power Module User Manual

Thank you for purchasing the VC-24V5POW extended power module developed and produced by Suzhou VEICHI Electric Technology Co., Ltd. Before using our company's VC series PLC products, please read this manual carefully, so as to have a clearer grasp of the characteristics of the product and to install and use it correctly. Apply more securely and take full advantage of the product's rich functionality.

Hints:

Before starting to use, please read the operating instructions and precautions carefully to reduce the occurrence of accidents. The personnel responsible for product installation and operation must be strictly trained, abide by the safety regulations of the relevant industry, strictly abide by the relevant equipment precautions and special safety instructions provided in this manual, and operate the equipment according to the correct operation method.

1 Interface description

1.1 Interface description

The expansion interface and user terminal of VC-24V5POW are covered with covers, as shown in Figure 1-1.

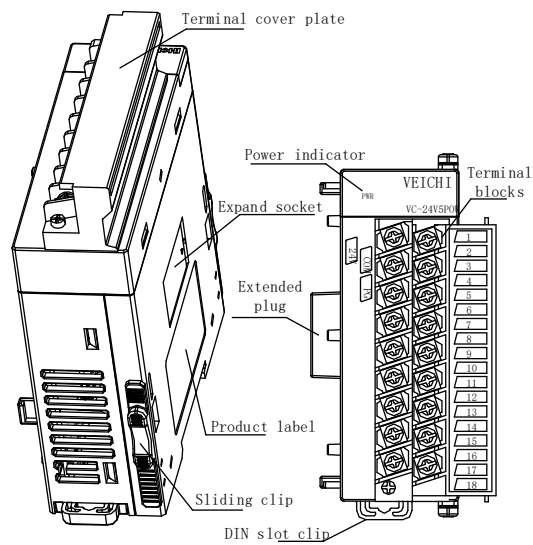


Figure 1-1 Appearance of the module interface

1.2 Product model description

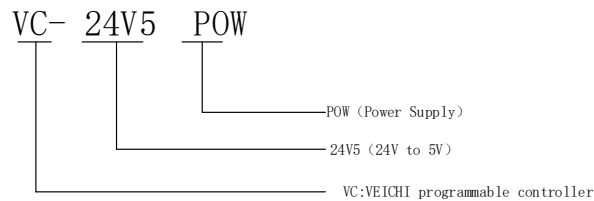


Figure 1-2 Product model description

1.3 Terminal Definition

Serial number	Tagging	Instructions	Serial number	Tagging	Instructions
01	24V	Power supply 24V positive	02	COM	Power supply 24V negative
03			04	PG	ground terminal

Table 1-3 Terminal Definition Table

Instructions: In order to supply power to other expansion modules, the expansion power supply module needs an external 24V power

supply, and the expansion power supply needs to be superior to or at the same time as the main module, otherwise it will affect the main module to identify the expansion module.

1.4 Accessed systems

Through the expansion interface, the VC-24V5POW can be connected with the VC series PLC main module or other right expansion modules. Its expansion interface can also be used to connect other expansion modules of the same model or different models of the VC series. As shown in Figure 1-4.

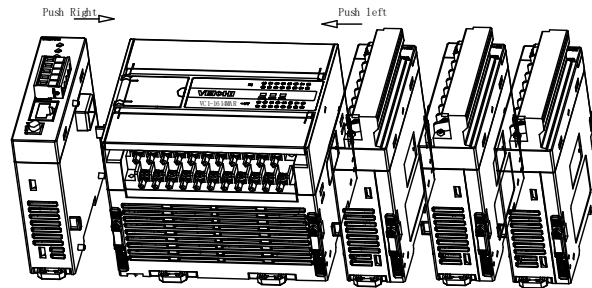


Figure 1-4 Schematic diagram of connection with the main module and other expansion modules

1.5 Wiring Instructions

5 aspects that must be paid attention to when wiring:

1. During installation and wiring, make sure that the external power supply is turned off to prevent electric shock and damage to the module;
2. It is recommended to connect the power supply through an external 24V switching power supply and use a twisted pair shielded cable. Cables should be kept away from power cords or other wires that may cause electrical interference.
3. After the power is turned on, the PWR indicator light indicates that the power supply is in working state. If it does not light up, please consider the abnormal power input and the possibility of module failure.
4. If there is excessive electrical interference, connect the module ground terminal PG.
5. Do not use the empty pins on the user terminals.
6. In order to ensure that the main module can successfully identify all modules, please ensure that the expansion power module is powered on first or at the same time.

2 Instructions for use

2.1 Power Specifications

Project	Instructions
Input voltage	Input voltage range 18~30VDC
The output voltage	Output voltage and current rating 5V/1.5A
Operating temperature	-25°C~55°C
IP rating	IP20

Table 2-1 Power Specifications

2.2 Indicator light description

Project	Instructions
Signal indicator	When the PWR light is on, it means that 5V is output normally and the module is working normally.
Expansion module rear-level interface	Connect the rear-level module, does not support hot swap
Expansion module front-end interface	Connect to the front-end module, does not support hot swap

Table 2-2 Indicator description

3 Installation

3.1 Dimensions

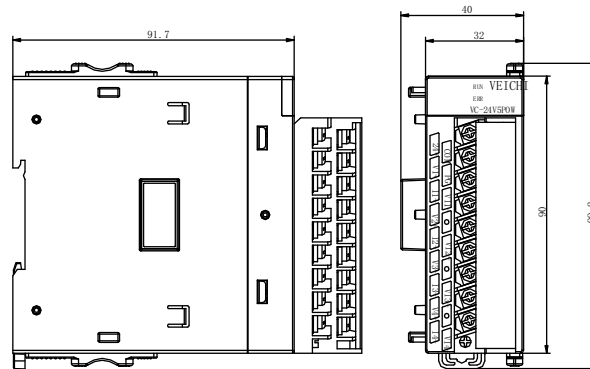


Figure 3-1 Dimensions and mounting hole dimensions (unit: mm)

3.2 Installation method

The installation method is the same as that of the main module, please refer to "VC Series Programmable Controller User Manual" for details. The installation schematic is shown in Figure 5-2.

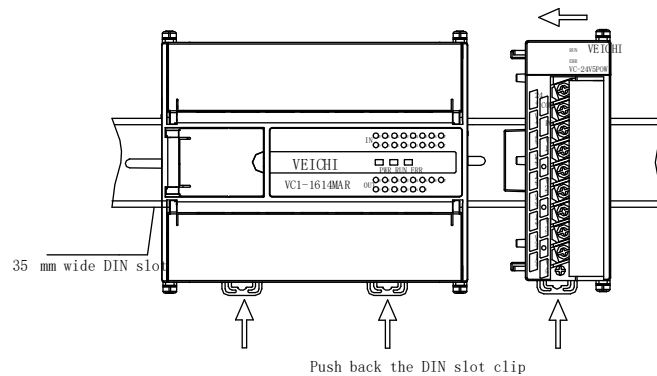


Figure 3-2 Using DIN slot to install and fix

4 Run Check

4.1 Routine Inspection

1. Check that the analog input wiring meets the requirements (see 1.5 Wiring Instructions).
2. Check whether the VC-24V5POW expansion interface is reliably inserted into the expansion interface.
3. Check whether the 5V and 24V power supplies are overloaded.
4. Check the application to ensure that the correct operating method and parameter range are selected in the application.
5. Set the VC main module to RUN state.

4.2 Troubleshooting

If the VC-24V5POW does not operate normally, please check the following items.

- Check the status of the main module "ERR" indicator;

Blinking: Check the connection of the expansion module and whether the configuration model of the special module is consistent with the actual connection module model;

Off: The expansion interface is connected correctly;

- Check the analog wiring.

Confirm the wiring is correct, please refer to Figure 1-5 wiring method;

- Check the status of the "PWR" indicator of this module

On: 5Vdc power output is normal.

Off: The circuit does not output 5Vdc power supply or the indicator light is damaged;

- Check the power-on sequence to ensure that the expansion module is powered on before or at the same time as the main module. And

check whether the wiring of the front and rear modules is normal.

Information for users

1. The warranty scope refers to the programmable controller body.
2. The warranty period is 18 months. Under normal use during the warranty period, our company will repair the product for free.
3. The starting time of the warranty period is the date of manufacture and ex-factory of the product. The machine code is the only basis for judging the warranty period. Equipment without machine code will be treated as out-of-warranty.
4. Even within the warranty period, a certain repair fee will be charged if the following conditions occur:
Machine failure caused by not operating in accordance with the user manual;
Machine damage caused by fire, flood, abnormal voltage, etc.;;
Damage caused by using the programmable controller for abnormal functions.
5. The service fee is calculated according to the actual cost. If there is another contract, the contract will be dealt with first.
6. Please be sure to keep this card and present it to the maintenance unit during the warranty period.
7. If you have any questions, you can contact the agent, or contact our company directly.

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Data version V1.0 Archive time 2021-07-30

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VEICHI Product warranty card

Customer Information	Unit address:	
	Company name:	Contact:
		Contact number:
Product information	Product number:	
	Body barcode:	
	Agency name:	
Fault information	Repair time and content:	
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