



VH200 Series Programmable Controller User Manual

preface

Introduction

This product is a new generation bus-controlled PLC product independently developed by Flextronics Control. It can realize process packaging and reuse through FB/FC functions. It can realize multi-level network communication through RS485 and Ethernet, and supports the expansion of 16 modules.

This manual describes the installation and wiring of the product, including product information, mechanical installation, electrical installation, etc.

Version Change Record

Date of Revision	Release Version	Change content
2025/4/1	V1.0	First edition

About manual acquisition

This manual is not shipped with the product. If you need to obtain the electronic PDF file, you can log on to the official website of Veichi Electric (www.veichi.cn), "Service and Support-Data Download", search for keywords and download them.

Warranty Statement

Under normal use, if the product fails or is damaged, Flextronic Electric provides warranty service within the warranty period (please refer to the order form for details of the product warranty period). Beyond the warranty period, repair costs will be charged. During the warranty period, the product damage caused by the following conditions will be charged for repair.

- Product damage caused by not operating this product according to the provisions in the manual.
- Product damage caused by fire, flood and abnormal voltage.
- Use this product for abnormal functions, resulting in product damage.
- Product damage caused by exceeding the specified scope of use of the product.
- Secondary damage to products caused by force majeure (natural disasters, earthquakes, lightning strikes) factors.

The relevant service fees are calculated according to the unified standards of manufacturers. If there is a contract, it will be handled according to the principle of contract priority. **Please refer to the Product Warranty Card for detailed warranty instructions.**

Safety Precautions

Safety Statement

- This chapter explains the safety precautions that need to be concerned for the correct use of this product. Before using this product, please read the instructions for use and correctly understand the relevant information on safety precautions. Failure to follow the matters agreed in the safety precautions may lead to death, serious injury, or damage to equipment.
- The "hazards", "warnings" and "precautions" in the manual do not represent all safety precautions that should be observed, but only supplement all safety precautions.
- This product should be used in an environment that meets the design specifications, otherwise it may cause failure. Functional abnormalities or component damage caused by failure to comply with relevant regulations are not within the scope of product quality assurance.
- Flextronics Electric will not bear any legal responsibility for personal safety accidents, property losses, etc. caused by failure to comply with the contents of this book and illegal operation of products.

Security Level Definition

Indicates death or serious bodily injury if not operated as prescribed.



Indicates that death or serious bodily injury may result if not operated as prescribed.



Indicates that failure to operate as specified may result in minor bodily injury or damage to equipment.

Safety Precautions

- In the illustration of the product in this manual, sometimes in order to show the details of the product, the product is in a state where the cover or safety cover is removed. When using this product, please be sure to install the outer cover or cover as specified, and operate according to the instruction manual.
- The product illustrations in this manual are only examples and may be slightly different from the products you ordered. Please refer to the actual ordered products.

Unpacking acceptance



- When unpacking, it is found that the product and product accessories are damaged, rusted, signs of use, etc. Please do not install them!
- Please do not install it when you find water inside the product, missing parts or damaged parts when unpacking!
- Please carefully check the packing list. If you find that the packing list does not match the product name, please do not install it!



- Before unpacking, please check whether the outer packaging of the equipment is intact and whether it is damaged, soaked, damp, deformed, etc.
- Please open the package in hierarchical order, and it is strictly forbidden to beat violently!

- When unpacking, please check whether the surface of equipment and accessories is damaged, rusted, bruised, etc.
- After unpacking, please carefully check the packing list to check whether the quantity and information of equipment and accessories are complete.

Storage & Transportation



Notice

- When handling the product, please be sure to lift it gently, and pay attention to the objects under your feet at any time to prevent tripping or falling, otherwise there is a risk of injury or product damage!
- When carrying the product with bare hands, please be sure to hold the product shell firmly to avoid the product parts falling, otherwise there is a risk of injury!
- Please store and transport in strict accordance with the storage and transportation conditions required by the product, otherwise there is a risk of product damage.
- Avoid storage and transportation in places such as water splashing, rain, direct sunlight, strong electric field, strong magnetic field, strong vibration, etc.
- Avoid storing the product for more than 3 months. If the storage time is too long, please carry out stricter protection and necessary inspection.
- Please strictly package the products before transporting them by vehicle. Closed boxes must be used for long-distance transportation.
- It is strictly forbidden to mix and transport this product with equipment or items that may affect or damage this product.

On installation

- Only professionals who have received relevant training and electrical knowledge in electrical equipment can operate it. Non-professional operations are strictly prohibited!



Warn

- Please be sure to read the product instruction manual and safety precautions carefully before installation!
- Do not install this product in places with strong electric field or strong electromagnetic wave interference!
- Before installation, please ensure that the mechanical strength of the installation position is enough to support the weight of the equipment, otherwise it will cause mechanical hazards.
- During installation work, please do not wear loose clothes or accessories, otherwise there may be a risk of electric shock!
- When installing the product in a closed environment (such as a cabinet or chassis), please fully cool it with a cooling device (such as a cooling fan or a cooling air conditioner) to meet the requirements of the installation environment, otherwise the product may overheat or fire.
- It is strictly forbidden to modify this product!
- When this product is installed in a cabinet or terminal equipment, the cabinet or terminal equipment needs to provide corresponding protective devices such as fireproof shell, electrical protective shell and mechanical protective shell, and the protection level should comply with relevant IEC standards and local laws and regulations.
- When it is necessary to install equipment with strong electromagnetic wave interference such

as transformers, please install shielding protection devices to avoid malfunctioning of this product!

- Please install the product on flame-retardant objects such as metal, and do not let flammable materials come into contact with the product or attach flammable materials to the product, otherwise there will be a risk of fire.

 Notice

- When installing, please cover the top of the product with cloth or paper to prevent foreign objects such as metal chips, oil, and water during drilling from entering the product and causing product failure. After the operation, please remove the cover to prevent the cover from blocking the ventilation hole and affecting heat dissipation, causing the product to heat abnormally.
- Resonance may occur when a machine operating at a constant speed is operated at a variable speed. At this time, installing anti-vibration rubber under the motor frame or using vibration suppression function can effectively reduce resonance.

When wiring



- Non-professionals are strictly prohibited from installing, wiring, maintaining, inspecting or replacing parts of equipment!
- Before wiring, please cut off the power of all equipment. After the power supply is cut off, there is residual voltage in the internal capacitor of the equipment. Please wait at least for the time specified in the warning label on the product before wiring and other operations. Measure the DC voltage of the main circuit to confirm that it is below a safe voltage, otherwise there will be a risk of electric shock.
- Please perform wiring operations, remove the product cover or touch the circuit board while the power supply is cut off, otherwise there will be a risk of electric shock.
- Please ensure that the equipment and products are well grounded, otherwise there will be a danger of electric shock. Individual grounding or single-point grounding should be used for grounding, and public grounding should not be used.

 Warn

- It is strictly forbidden to connect the input power supply to the output end of the equipment or product, otherwise it will cause damage to the equipment and even cause fire.
- When the driving equipment is connected to the motor, please ensure that the phase sequence between the product and the motor terminals is accurate and consistent to avoid causing the motor to rotate in reverse direction.
- The cables used during wiring must meet the corresponding wire diameter and shielding requirements, and the shielding layer of shielded cables needs to be reliably grounded at a single end!
- After the wiring is completed, please ensure that all cables are wired correctly, and there are no dropped screws, gaskets or exposed cables inside the product, otherwise there may be a risk of electric shock or damage to the product.

 Notice

- Please follow the steps specified in the static electricity prevention measures (ESD), and wear an electrostatic bracelet for wiring and other operations to avoid damaging the circuit inside the equipment or product.
- When wiring the control loop, please use double-stranded shielded wire and connect the shielding layer to the grounding terminal of the product for grounding, otherwise the product will behave abnormally.

On power-up

- Before powering on, please confirm that the product is well installed, the wiring is firm, and the motor device is allowed to restart.
- Before powering on, please confirm that the power supply meets the product requirements to avoid product damage or fire!
- It is strictly forbidden to open the product cabinet door or product protective cover, touch any terminal blocks of the product, or disassemble any devices or parts of the product when it is powered on, otherwise there is a danger of electric shock!



- After the wiring operation and parameter setting are completed, please conduct a trial run of the machine to confirm that the machine can operate safely, otherwise it may cause personnel injury or equipment damage.
- Before powering on, please ensure that the rated voltage of the product is consistent with the power supply voltage. If the power supply voltage is used incorrectly, there is a danger of causing a fire.
- Before powering on, please ensure that there are no people around the products, motors and machinery, otherwise people may be injured or killed.

Runtime

- It is strictly forbidden for non-professionals to run the product, otherwise there will be a danger of injury or death!
- It is strictly forbidden to touch any terminal blocks of the equipment and disassemble any devices or parts of the equipment and products in the running state, otherwise there is a danger of electric shock!



- It is strictly forbidden to touch the equipment shell, fan or resistor to test the temperature, otherwise it may cause burns!
- During operation, avoid other items or metal objects falling into the equipment, otherwise it may cause fire or product damage!

During maintenance

- Non-professionals are strictly prohibited from installing, wiring, maintaining, inspecting or

replacing parts of equipment!

- It is strictly forbidden to maintain the equipment when it is powered on, otherwise there is a danger of electric shock!
- After cutting off the power supply of all equipment, please wait for at least the time specified in the warning label on the product before performing equipment maintenance and other operations.
- When using a PM motor, even if the power supply of the product is turned off, an induced voltage will be generated on the motor terminals during motor rotation. Do not touch the motor terminals, otherwise there may be a risk of electric shock.



- Please conduct daily and regular inspection and maintenance of equipment and products according to equipment maintenance and maintenance requirements, and keep maintenance records.

While servicing

- Non-professionals are strictly prohibited from installing, wiring, maintaining, inspecting or replacing parts of equipment!
- It is strictly forbidden to maintain the equipment when it is powered on, otherwise there is a danger of electric shock!
- After cutting off the power supply of all equipment, please wait for at least the time specified in the warning label on the product before performing equipment inspection and maintenance.



- Please report the equipment for repair according to the product warranty agreement.
- When the fuse blows, the circuit breaker trips or the leakage circuit breaker (ELCB) trips, please wait at least for the time specified in the warning label on the product before turning on the power supply or operating the machine, otherwise it may cause casualties and equipment damage.
- When the equipment fails or is damaged, professionals must troubleshoot and repair the equipment and products according to the maintenance instructions, and keep maintenance records.
- Please follow the product wearing parts replacement instructions for replacement.
- Do not continue to use the damaged machine, otherwise it may cause casualties or greater damage to the product.
- After replacing the equipment, please be sure to re-check the equipment wiring and set the parameters.

When scrapped



- Please scrap equipment and products in accordance with relevant national regulations and standards to avoid property losses or casualties!
- Scrapped equipment and products should be disposed of and recycled according to industrial

waste treatment standards to avoid environmental pollution.

1 Product Information

1.1 Model & Nameplate Description

VH210-0808TN1

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

Wherein:

- ① VH: Sheet Programmable Controller
- ② Series number (1 = economical; 2 = network; 3 = high performance; 5 = bus control; 6 = medium control; 7 = large control)
- ③ Number of Ethernet channels: (1 Ethernet in the example)
- ④ Number of controllable pulses: (0: the number of pulses is less than 8;)
- ⑤ Number of input points (8 input points in the example)
- ⑥ Number of output points (8 output points in example)
- ⑦ Output type (TN: NPN transistor output; TP: PNP transistor output)

Special identification (1: represents integrated analog quantity)

1.2 Component Description

Serial number	Port Type	Interface Identification	Definition	Indicator light color	Description
1	IO indicator	IN/OUT	IO display status	green	• Always on: indicates that the input or output is valid • Out: indicates that the input or output is invalid
2	Running status indicator	RUN	Running normally	green	• Always on: The power supply is

					normal • Flashing: indicates that the user program is running
		ERR	Run error	Red	• Extinguished: indicates no serious error • Flashing: indicates that a serious error has occurred
3	DIP switch	RUN/STOP	Control host running/stopping	/	/
4	Type-C interface		Communicate with PC	/	/
5	Ethernet port	Ethernet	Ethernet communication RJ45 interface	Green: Yellow:	• Always on: indicates that the link was successfully established • Flashing: indicates communication is being done
6	RS485	485+	485 communication signal +	/	/
		485-	485 communication signal-	/	/
7	120Ω DIP Switch	R	/	/	485 120 Ω matching resistor
8	power supply	24V +	Power +	/	/
		0V	Power supply-	/	/
9	Grounding	PE	Protected land	/	/
10	RS232	TX	Signal transmission	/	/
		RX	Signal reception	/	/
		GND	Ground	/	/
11	Analog quantity	AI	Analog input	/	GND as negative electrode
		AO	Analog output	/	GND as negative electrode
12	IO Terminal	/	8 input/8 output	/	See Section 3.1 for details

1.3 Product specifications

1.3. 1 Basic Specifications

Items		Specifications
Critical parameters	Program capacity	32 k Step
	Data Capacity	128kBytes user software components 32kBytes power-down save
	Electronic cam, interpolation	without
	Local extension	Supports 16 right expansion modules, does not support left expansion cards
Programming	Programming Platform	Auto Studio
	Programming language	Programming languages (LD, FBD, SFC)
	Ethernet	Supports Modbus-TCP master/slave station: acts as the master station and supports 8 slave stations; As a slave station, supports 4 master stations
		TCP free protocol, supports 4 connections
	RS485	Number of supported channels: 1 channel supported
		Isolation method: Isolation
		Whether there is a terminal resistor: There is a terminal resistor, which can be used as a master station or a slave station
		Number of receiving and slaves: Supports up to 31 Modbus-RTU slaves
		Communication baud rate: 115200, 57600, 38400, 19200, 9600, 4800, 2400, 1200bps
		Short circuit protection: support
		Support serial port free protocol
	RS232	1 channel, communication baud rate: 115200, 57600, 38400, 19200, 9600, 4800, 2400, 1200bps
	USB	USB uses TYPE-C interface, and the speed can reach the full speed of USB2.0. USB interface can be used for program download, monitoring and user application upgrade.
High-speed IO	Pulse input	2 50kHz high speed inputs, 6 10kHz medium speed inputs
	Pulse output	3 channels of 100kHz high-speed output
User program upgrade	Ethernet, USB	Download on program
Dimensions	Dimensions (L X	104X85X24

and weight	W X H) (mm)	
	Weight	-

1.3. 2 Power Supply Specifications

Items	Specifications
Terminal input power supply rated voltage	24V DC $\pm$ 10% (21.6 V DC ~ 26.4 V DC)
Terminal input power supply rated current	1.6 A (max at 24V DC)
Bus output power supply rated voltage	5V DC (4.75 V DC ~ 5.25 V DC)
Bus output power supply rated current	2A (max at 5V)
24V input power protection	Supports short circuit protection and reverse connection protection
Module hot plug function	Not supported

1.3. 3 Input specifications

Items		Specifications
Input Type		Digital input
No. of input channels		8 channels
Input method		Leaky type/leaky type
Input voltage level		24V DC $\pm$ 10% (21.6 V DC ~ 26.4 V DC)
High speed input (X0 ~ X7)	The input is ON, the input current	> 3 mA
	The input is OFF, the input current	< 1mA
	Hardware response time	6 μ s
	Highest input frequency	X0-X1: 50 kHz, X2-X7: 10 kHz
	Input impedance	5.5 k Ω
ON voltage		> 15V
OFF voltage		< 5V
Software filtering time		0 ~ 60ms continuously adjustable, the minimum adjustable unit is 1 μ s
Isolation Mode		Integrated chip capacity isolation method
Common end mode		8-point/common end (DC24V +)

1.3. 4 Output specifications

Items	Specifications
Output type	Transistor NPN/PNP output (optional)

Number of output channels		8 channels
Output voltage level		24V DC $\pm$ 10% (21.6 V DC ~ 26.4 V DC)
Outputs (Y0 ~ Y7)	Output load	0.5 A/dot, 2A/8 dots
	Hardware response time	6 μ s
	Maximum output frequency	Y0 to Y3: 100 kHz
	Load current requirement	$\geq$ 11 mA full frequency
OFF leakage current		Below 0.5 mA, rated voltage 24V
Maximum residual voltage at ON		0.5 V DC the following
Isolation method		Digital isolator
Public end mode		8 Point/Common End (COM)
Output action display		When the output is driven, the output indicator light is on (software control)
External inductive load protection		When connecting external inductive load, the user needs to connect the continuous current diode

Note: When the NPN output frequency is greater than or equal to 100kHz, an external 1K pull-up resistor needs to be connected to 24V.

When the PNP output frequency is greater than or equal to 100kHz, an external 1K pull-down resistor needs to be added to connect to 0V.

1.3. 5 Analog input specifications

Items		Specifications
1AD	No. of input channels	1 channel
	Isolation	Digital and analog quantities are not isolated
	Voltage input range	0V ~ 10V
	Voltage input impedance	$> 200k\Omega$
	Current input range	0mA ~ 20mA
	Current sampling impedance	250 Ω
	Conversion speed	2ms/channel
	Input accuracy (room temperature 25 $^{\circ}$ C)	Voltage $\pm$ 1%, current $\pm$ 1% (full range)
	Input accuracy (full temperature range)	Voltage $\pm$ 3%, current $\pm$ 3% (full range)
	Input signal frequency	< 10 Hz
	Resolution	12bit
	Digital Output	0 ~ 10000

1.3. 6 Analog output specifications

Items		Specifications
DA	Number of output channels	1 channel
	Isolation	Digital and analog quantities are not isolated
	Voltage output range	0V ~ 10V
	Current output range	0mA ~ 20mA
	Output voltage load	> 2k Ω
	Output current load	< 500 Ω
	Conversion speed	2ms/channel
	Output accuracy (room temperature 25 °C)	$\pm 1\%$ (full scale)
	Output accuracy (full temperature range)	$\pm 5\%$ (full scale)
	Resolution 12bit	Resolution 12bit
	Digital Output	0 ~ 10000

2 Mechanical installation

2.1 Installation environment requirements

When installing the programmable controller on the guide rail, it should be installed on the basis of full consideration of operability, maintainability and environmental resistance.

Items	Specifications
Environment of use	Non-corrosive, combustible gas, occasions where conductive dust (dust) is not serious
Elevation	≤ 2000 m (80 kPa)
Contamination level	Level 2
Immunity to interference	Power cord 2kV (IEC 61000-4-4)
Overvoltage category	Grade I
EMC anti-interference rating	Zone B, IEC61131-2
Vibration resistance	IEC 60068-2-6 5Hz ~ 8.4 Hz, 3.5 mm, 8.4 Hz ~ 150Hz, 1g, X/Y/Z triaxial, 10 cycles/axial

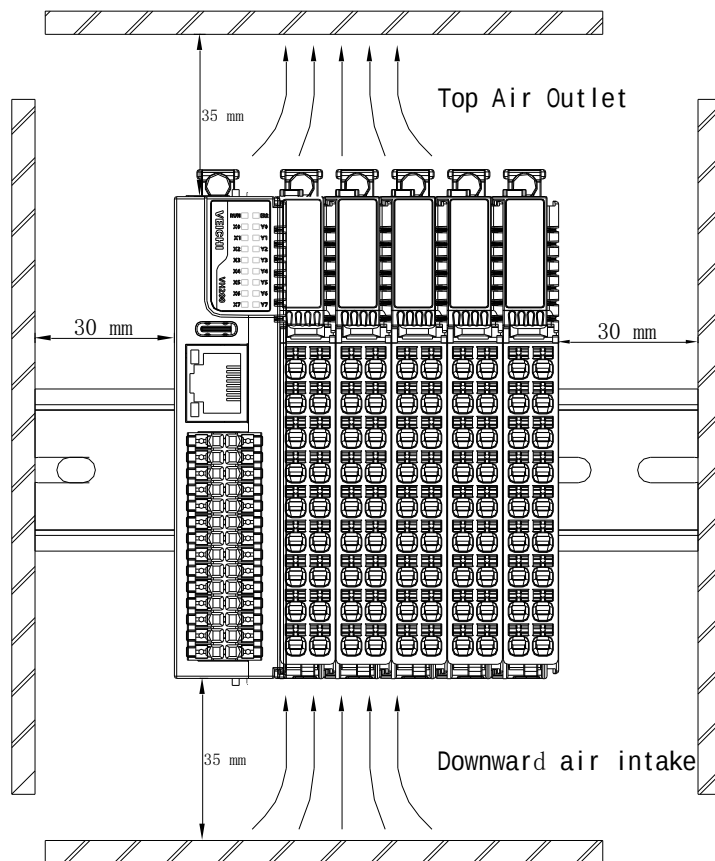
Impact resistance	IEC 60068-2-27 150m/s ² , 11ms, ± X/Y/Z six directions, 3 times/direction, total 18 times
Overcurrent protection device	1.5 A fuse
Storage temperature and humidity range	● Storage temperature:-40 °C ~ + 70 °C ● Relative humidity: < 90% RH, no condensation
Transportation temperature and humidity range	● Storage temperature:-40 °C ~ + 70 °C ● Relative humidity: < 90% RH, no condensation
Operating temperature and humidity range	● Operating temperature:-20 °C ~ + 55 °C (horizontal installation), 20 °C ~ + 45 °C (non-horizontal installation) ● Relative humidity: < 95% RH, no condensation
Installation locations and restrictions	Installation location: For details, please refer to "2.2 Installation location requirements"

2.2 Installation location requirements

This product can be installed in four positions (i.e. installation direction): horizontal direction, vertical direction, top of the electric cabinet and bottom of the electric cabinet. It is recommended to install it in horizontal direction. Different installation positions have different requirements for working temperature and its limitations. For details, please refer to "2.1 Installation Environment Requirements".

Best installation location

The best installation position of this product is horizontal installation, and the heat dissipation design is through natural convection. In order to ensure normal ventilation and heat dissipation and reserve enough wiring space, the minimum gap must be kept around this product, as shown in the figure below.



If there are high-temperature heat source equipment (heater, transformer, large resistor, etc.) around this product, keep a gap of at least 100mm between it and the high-temperature heat source equipment.

2.3 Installation precautions

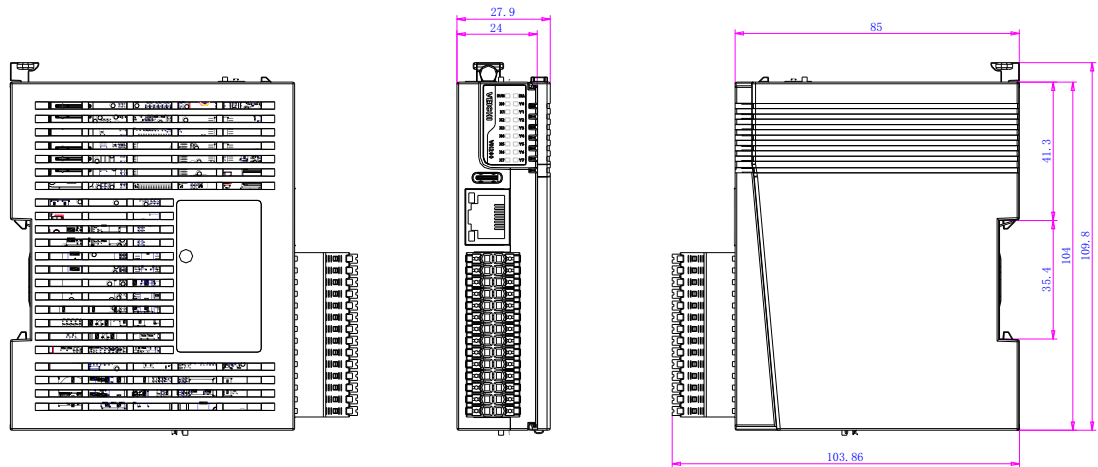
- Before installing or disassembling the main unit and module, please ensure that the main unit and module are powered off.
-

Do not hot-plug modules, which may cause host restart, user data loss or corruption, etc.

- Do not let the housing and terminals of the host and module drop or be impacted to avoid damage to the host and module.

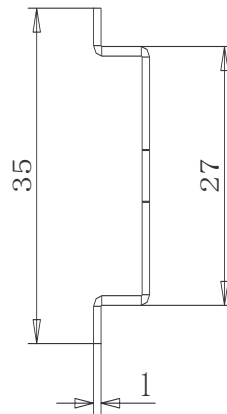
2.4 Installation dimensions

The mounting dimension information is shown in the diagram below in millimeters (mm).



2.5 Installation method

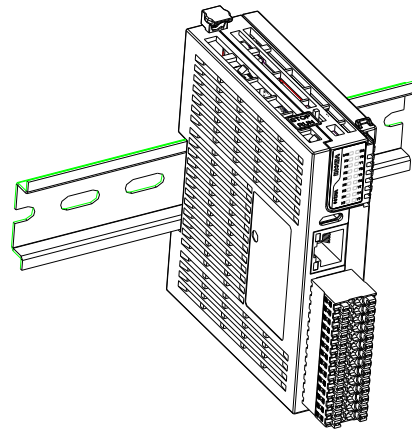
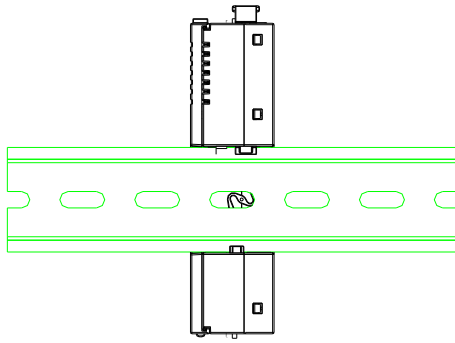
The main machine is installed using DIN rails. The DIN rails must comply with IEC 60715 standard (35mm wide, 1mm thick). The dimension information is shown in the figure below, and the unit is millimeters (mm).



When this product is installed on a DIN rail other than the recommended DIN rail (especially if the thickness of the DIN rail is not 1.0 mm), the DIN rail lock will fail, the product will not be installed in place, and the product will not work properly.

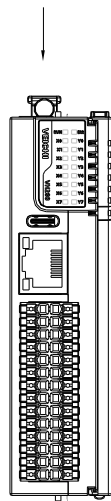
Host installation

1. When installing, align the host machine with the DIN rail, and press the module in the direction indicated by the arrow. After installing it in place, there is an obvious snapping sound, as shown in the figure below.

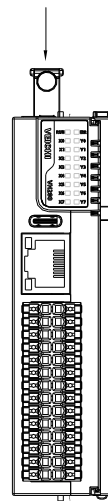


2. Verify that the DIN rail catch of the main unit is locked. The locked and unlocked status of the rail catch is shown in the figure below.

Locking



UnLock



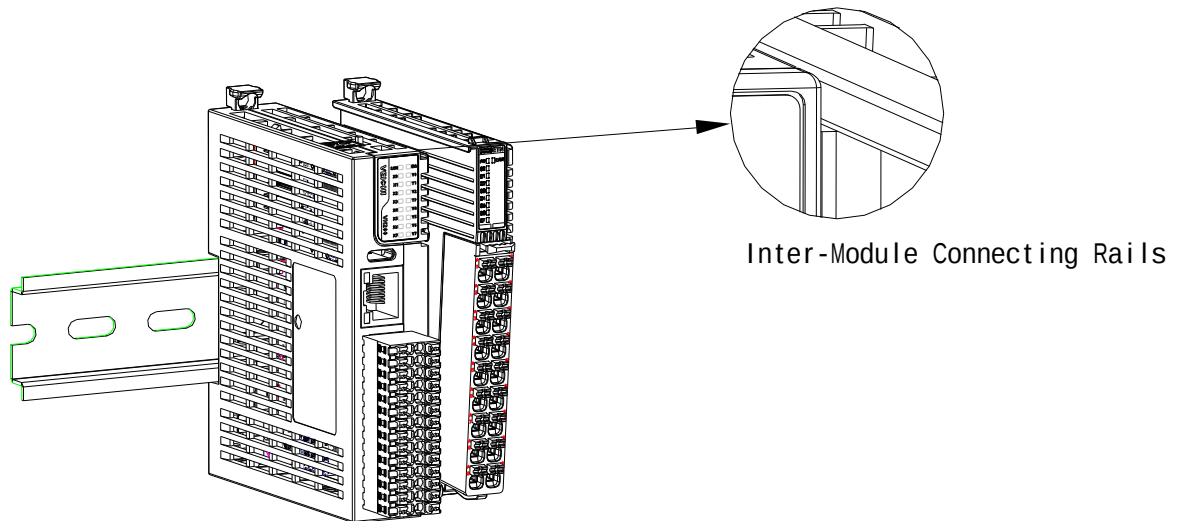
- If the DIN rail catch is below, it is locked.
- If the DIN rail is locked above, it is unlocked.

When in the unlocked state, press the DIN rail catch down so that it becomes locked.

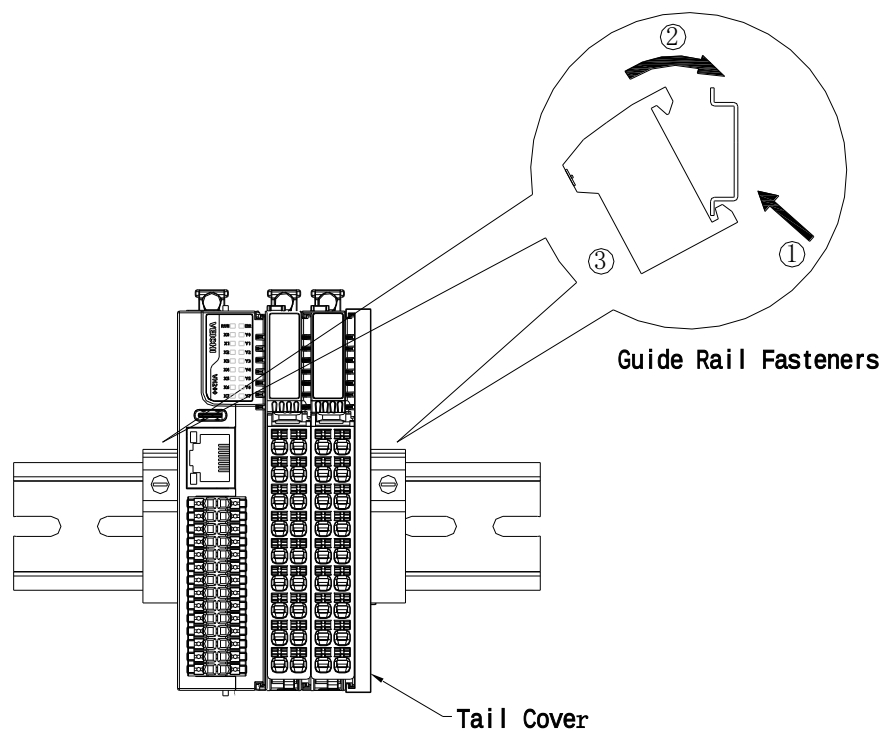
When the main unit is not installed on the guide rail, please keep the guide rail catch in the locked state, if it is in the unlocked state for a long time, it will cause the catch to fail.

Host and module installation

The assembly between the main machine and the module is sliding through the top and bottom rails of the module, as shown in the figure below.

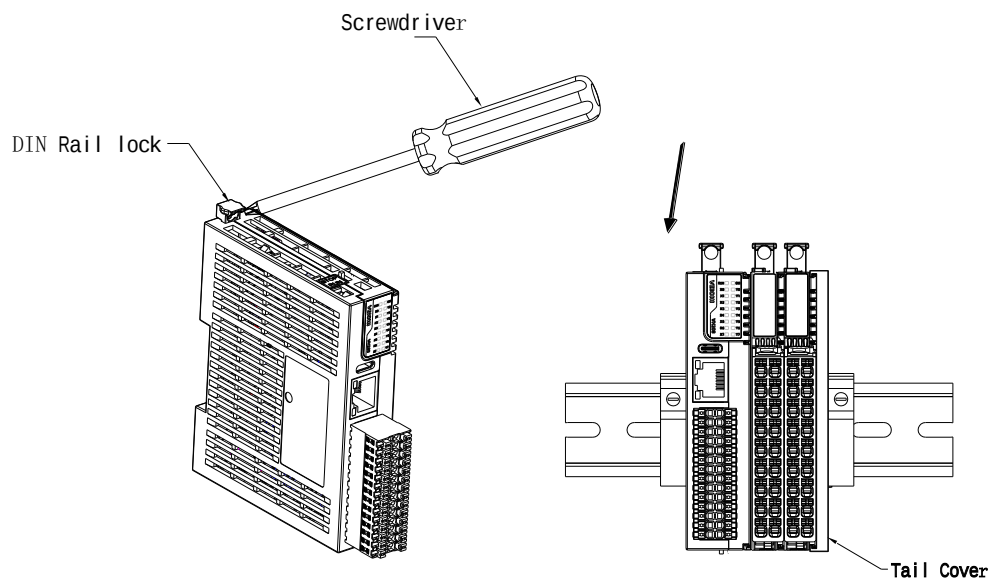


Install a DIN rail clip at each end of the main unit or module. When installing the guide rail clamp, hook the bottom of the guide rail clamp to the bottom of the guide rail and then rotate the guide rail clamp so that the upper end of the guide rail clamp is hooked to the upper end of the guide rail, and finally fasten the screw to lock the guide rail clamp, as shown in the following figure.



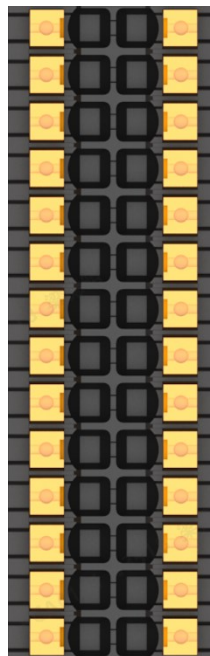
Disassembly

Use a flat screwdriver or similar tool to pry the rail catch upward to pull the module out forward and press the top of the catch downward when done.



3 Electrical installation

3.1 Terminal arrangement

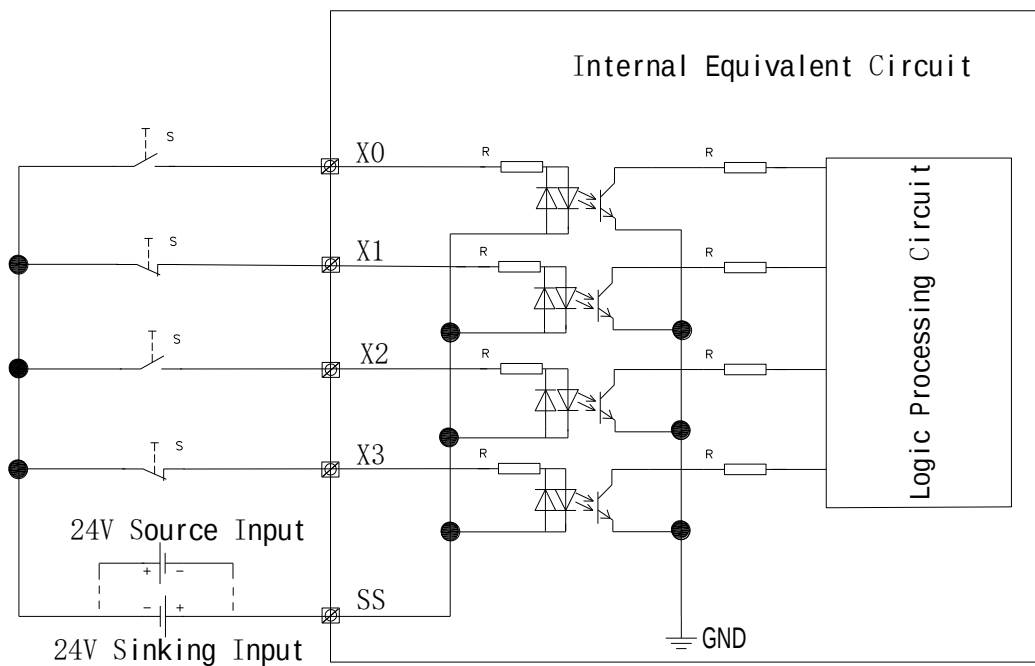


Left Signal	Left Terminal	Right side terminal	Right Signal
X0 input	A1	B1	Y0 output

X1 input	A2	B2	Y1 output
X2 input	A3	B3	Y2 output
X3 input	A4	B4	Y3 output
X4 input	A5	B5	Y4 output
X5 input	A6	B6	Y5 output
X6 input	A7	B7	Y6 output
X7 input	A8	B8	Y7 output
SS: input common side	A9	B9	COM: Output Common
AI: Analog input	A10	B10	AO: analog output
GND: signal ground	A11	B11	RX: RS232 received signal
A: RS485 signal +	A12	B12	TX: RS232 transmission signal
B: RS485 signal-	A13	B13	PE: protected land
24V: DC power supply 24V +	A14	B14	0V: DC power supply 24V-

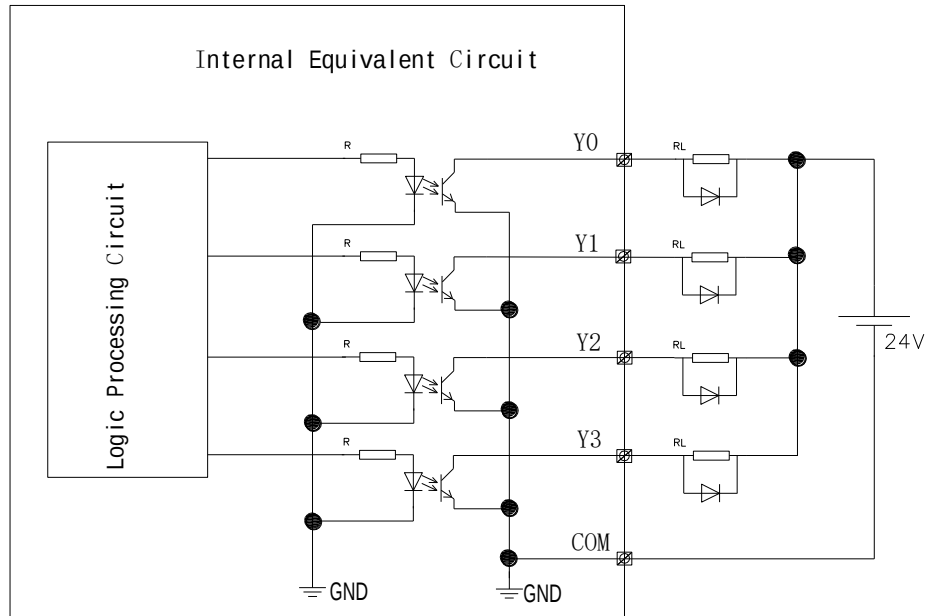
- The total extension distance of high-speed IO interface extension cable should be used within 3m.
- When wiring, avoid being bundled with power lines (high voltage, high current) and other cables that transmit strong interference signals. They should be routed separately and avoid parallel routing.

3.2 Input terminal wiring

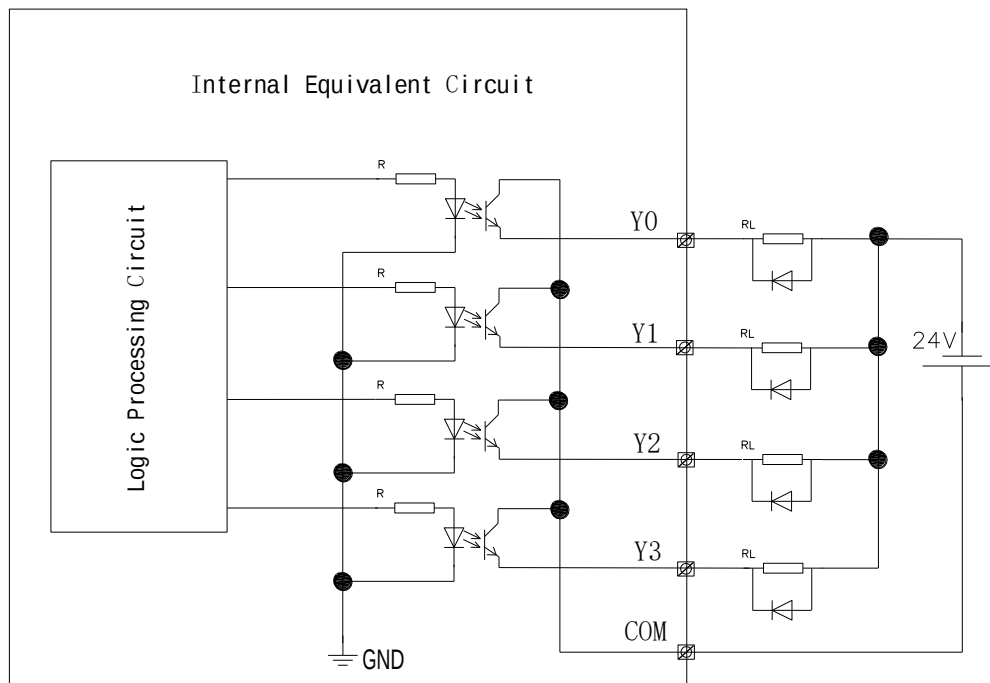


3.3 Output terminal wiring

0808TN:



0808TP:



Description

When connecting to an inductive load, an external freewheeling diode should be connected. The diode can be 1N4001 or similar parameter diode.

4 Communication connection

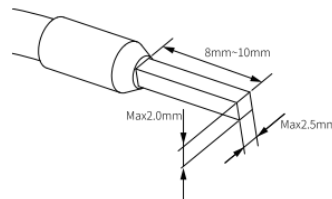
4.1 Communication networking

4.2 Cable selection

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

	Adapter wire diameter	
	National Standard/mm ²	American Standard/AWG
Tubular lug	0.3	22
	0.5	20
	0.75	18
	1.0	18
	1.5	16

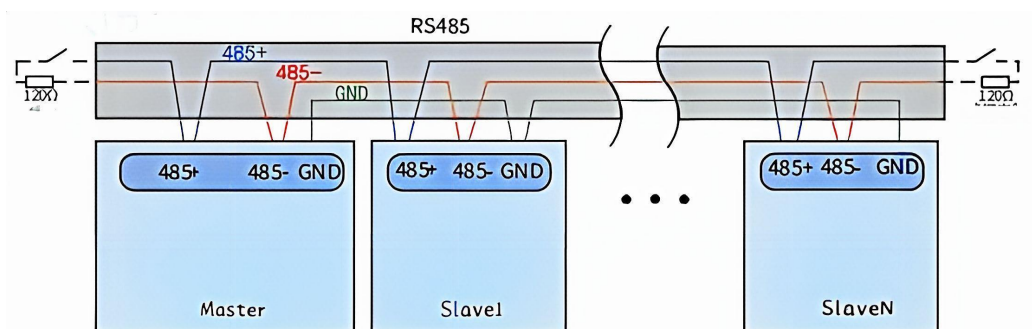
If using other tube type wire lugs, please crimp them to the stranded wire, the shape and size requirements are shown in the picture below.



4.3 Cable Connection

It is recommended to use shielded twisted pair connection for RS485 bus, 485+, 485-use twisted pair connection; Both ends of the bus are connected with 120 Ω terminal matching resistors to prevent signal reflection. Up to 31 nodes can be connected, and the distance of each node branch line should be less than 3m.

The RS485 bus connection topology is shown in the figure below.

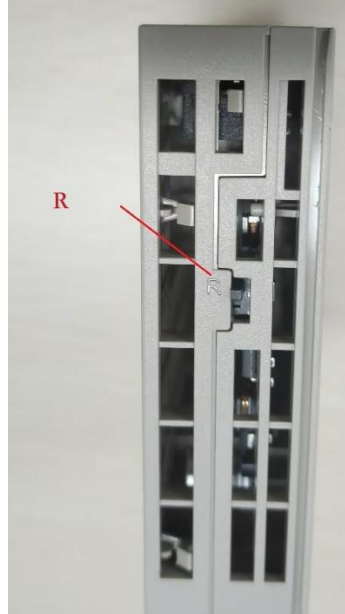


When fixing cables, do not bundle them with AC power cords, high-voltage cables, etc. to avoid

communication signals being affected by interference.

4.4 Instructions for use of termination resistor

The RS485 termination resistance DIP switch is located on the bottom side of the VH200 controller. When using a 120 Ω impedance, the dial is dialed to the R position, as shown in the figure.



5 Operation and maintenance

5.1 Operation and shutdown operations

After the program is written to the PLC, follow the steps below to switch on and off the machine.

When the system needs to be run after the program is written when the PLC is in STOP state:

1. Set the system to RUN running state.
2. Verify that the RUN LED is flashing yellow-green.
3. When it is necessary to STOP running, set the system to STOP state, or it can be stopped by running in the background of the host computer.

Appendix: Expansion Card Options

Type	model	Specifications
Left Extension Module	/	Not supported
Right Expansion Module	VH-1600END	16-channel digital input module
	VH-0800END	8-channel digital input module
	VH-0016ETN	16-channel digital transistor NPN output module
	VH-0016ETP	16-channel digital transistor PNP output module
	VH-0808ETN	8-channel digital input module, 8-channel digital transistor NPN output module
	VH-0808ETP	8-channel digital input module, 8-channel digital transistor PNP output module
	VH-0008ETN	8-channel digital transistor NPN output module
	VH-0008ETP	8-channel digital transistor PNP output module
	VH-4AD	4 channel analog input module
	VH-4DA	4 channel analog output module
	VH-4PT	4-channel input thermal resistance temperature detection module
	VH-4TC	4-way input thermocouple temperature detection module
	VH-2WT	2-channel input weighing module
	VH-2HC	2-channel input counting module