

OMRON

Model V700-CD1D-V3

ID System Controller

INSTRUCTION SHEET

Thank you for selecting OMRON product. This sheet primarily describes precautions required in installing and operating the product.

Before operating the product, read the sheet thoroughly to acquire sufficient knowledge of the product. For your convenience, keep the sheet at your disposal.

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PRECAUTIONS FOR SAFE USE

To use the Controller safely and at full capacity, be sure to read the Handling Instruction Manual carefully. You are requested to fully understand this system.

(1) Environment

Do not expose V700-CD1D-V3 to explosive gas, inflammable gas, corrosive gas, metallic powder, dust particles etc., etc.

(2) Water-tight

This product is not water-tight.

V700-CD1D-V3 may malfunction, suffer damage, or burn, in places where they may be exposed to water, oil, medicines, or organic solvent.

(3) Enclosure of the product

① Do not remove the casing of this product. Otherwise, the product may malfunction forever.

② Do not put a metallic bar or anything like that into the vent opening of the product casing. This may result in malfunction, damage or fire.

(4) FCC Part 15 Subpart B

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

The equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user

is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

PRECAUTIONS FOR CORRECT USE

(1) Do not use in the following environment.

- ① Places where the temperature varies heavily.
- ② Places where the humidity is high and it condenses.
- ③ Where the controller may get splashed with water, oil, chemicals or organic solvents.
- ④ Where the controller is exposed to corrosive gases.
- ⑤ Where a noise-generating source is nearby.

(2) Installation

- ① Provide an enough space around the controller for ventilation.
- ② Avoid setting up the unit near a highly heat-generating device (such as heater, transformer and large-capacity resistor).
- ③ Tighten the M4 mounting screws to a smaller torque than 1.2N · m. Do not apply screw locite and any other organic solvent to any other parts than the screws. The casing may get cracked.

(3) Cleaning

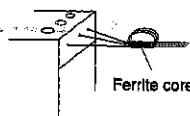
- ① Be sure to use the market alcohol and benzene.
- ② Do not use the thinner.

(4) Be sure to connect the grounding.

If not connected the grounding, the connected Read/Write antenna may fail to function.

(5) Ferrite core (supplied)

Attach the accompanying ferrite core (Type: ZCAT2032-0930A made by TDK Co.Ltd) around the cables that are connected with the power and grounding terminals.



Specifications

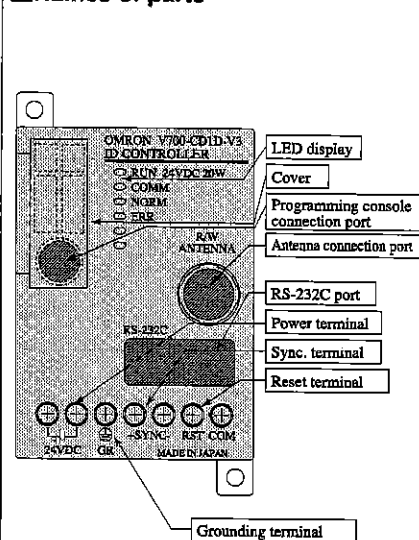
● General specification

Item	Specifications
Supply voltage	24V DC: +10% -15%
Power consumption	20W max.
Ambient operating temperature (in communication)	-10 to +55°C (no freezing)
Ambient operating humidity (in communication)	35 to 85%RH (no condensation)

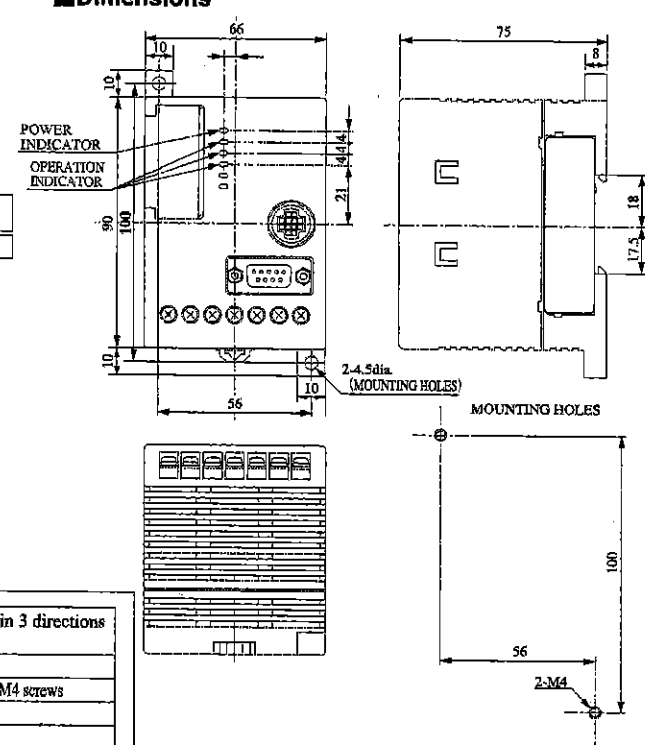
● Performance specifications

Item	Specification
Insulation resistance	20 MΩ min. (with 100V DC megger)
	Between power terminal and grounding terminal
	Between power terminal and input/output terminal
	Between power terminal and casing
	Between input/output terminal and grounding terminal
Dielectric strength	Between input/output terminal and casing
	Between grounding terminal and casing
	Leakage current of 10mA max. by applying 500VAC 50/60Hz power for 1 minute
	Between power terminal and grounding terminal
	Between input/output terminal and grounding terminal
Vibration resistance	Between power terminal and casing
	Between input/output terminal and casing
	Between grounding terminal and casing
	Durable at 10 to 150Hz
	Double amplitude less than 0.3mm 4 sweeps for 8 minutes each in 3 directions

Names of parts



Dimensions



Shock resistance	Durable at 200m/s ² , 3 times in 3 directions
Enclosure rating	Built in panel
Setup method	Mounted on DIN rail or fixed with M4 screws
Applied standards	FCC Part15 Subpart B
Weight	About 290g

● Indicator

No.	Name	Function	Meaning
1	RUN	RUN indication	Green Stays on while the controller is functioning
2	COMM	Operation indication	Green Stays on while in communication with the tag
3	NORM	Communication complete indication	Green Light up when communication is over
4	ERR	Error indication	Red Light up if there is a communication failure or a system failure

● Programming console connection port

The C200H-PR027 Programming Console made by OMRON can be connected to this port with the specific cable (Type V700-P10, option). Use the dedicated key sheet to control the system. (The key sheet comes with the V700-P10.)

● External input/output terminals

Type	Name	Function
Power terminal	24VDC	24VDC power supplied terminal.
Grounding terminal	GR	Grounding terminal.
Sync. terminal	SY+ SY-	Used in pair for running two or more controllers in sync.
Reset terminal	RST COM	Used in pair for using an external reset input.

● Read/Write Antenna connection port

One unit of Type V700 Read/Write Antenna by OMRON can be connected via this port.

● RS-232C port

A general-purpose programmable logic controller or a personal computer can be hooked up via this port.

Suitability for Use

THE PRODUCTS CONTAINED IN THIS SHEET ARE NOT SAFETY RATED. THEY ARE NOT DESIGNED OR RATED FOR ENSURING SAFETY OF PERSONS, AND SHOULD NOT BE RELIED UPON AS A SAFETY COMPONENT OR PROTECTIVE DEVICE FOR SUCH PURPOSES. Please refer to separate catalogs for OMRON's safety rated products.

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the product.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used. Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

See also Product catalog for Warranty and Limitation of Liability.

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