User's Manual

Model VJCE-01A VJ Mounting Base for Communication **NTXUL**

IM 77J01C51-11E

Please read through this manual as well as the manual for respective instruments of JUXTA VJ series mounted on the VJ mounting base for correct handling. Please keep this manual carefully after use.

CAUTIONARY NOTES FOR SAFE USE OF THE PRODUCT



If this symbol is indicated on the product, the operator should refer to the explanation given in the user's manual in order to avoid injury or death to either themselves or other personnel, and/or damage to the instrument. The manual describes the special care the operator should exercise to avoid shock or other dangers that may result in injury or loss of life.

The following symbols are used only in this manual.



IMPORTANT

Indicates that operating the hardware or software in a particular manner may damage it or result in a system failure.



NOTE

Draws attention to information that is essential for understanding the operations and/or features of the products.



INTRODUCTION

The VJCE-01A has been manufactured under strict quality control and thoroughly tested at the factory before shipment. When you receive it, visually inspect it for damage.

(1) Model and Suffix Codes Check

Check that the model and suffix codes for VJ mounting base and VJ series signal conditioner are as ordered.

Model and Suffix Code	Input	Output-1	Output-2
VJCE-01A	Screw terminal	Screw terminal	RS-485 Communication terminal

List of Mountable Models

LIST OF MOUNTABLE IN			
Signal Conditioners with Communication Function Model and Suffix Code	Signal Conditioners of Single Output Type Model and Suffix Code	Product Name	
	VJC1 -01 N-□□N0	Loop Powered Isolator	
	VJH1 -01□-□□N0	Isolator	
VJH7 -02□-□□P0	VJH7 -01□-□□N0	Isolator (Multi-function)	
	VJHF -01□-□□N0	Isolator (Super Speed Response Type)	
	VJHR -01□-□□N0	Isolator (Reverse Output Type)	
	VJA1 -01□-□□N0	Distributor	
	VJA4 -01□-□□N0	Distributor (Non-isolated)	
	VJA5 -01□-□□N0	Distributor (with Square Root Extractor)	
VJA7 -02□-□□P0	VJA7 -01□-□□N0	Distributor (Multi-function)	
	VJT6 -01□-□□N□	Thermocouple Converter	
	VJR6 -01□-□□N□	RTD Converter	
VJU7 -02□-□□P0	VJU7 -01□-□□N0	Universal Temperature Converter	
	VJS2 -01□-□□N□	Potentiometer Converter	
VJS7 -02□-□□P0	VJS7 -01□-□□N0	Potentiometer Converter (Multi-function)	
	VJP1 -01□-□□N0	Pulse Repeater	
	VJP4 -01□-□□N0	Pulse Rate Converter	
VJP8 -02□-□□P0	VJP8 -01□-□□N0	Pulse Rate Converter (Multi-function)	
VJQ8 -02□-□□P0	VJQ8 -01□-□□N0	Pulse to Analog Converter (Multi-function)	
	VJQ2 -01□-□□N0	Pulse to Analog Converter (Free Range Type)	
	VJQ0 -01□-□□N0	Analog to Pulse Converter	
VJQ7 -02□-□□P0	VJQ7 -01□-□□N0	Analog to Pulse Converter (Multi-function)	
	VJF1 -01□-□□N0	Pneumatic to Electrical Converter	
	VJB1 -01□-□□N□	CT Converter (RMS)	
	VJG1 -01□-□□N0	PT Converter (RMS)	
	VJB3 -01□-□□N0	AC Converter (RMS)	
	VJD1 -01□-□□N0	Tachometer Converter	
VJX7 -02□-□□P0	VJX7 -01□-□□N0	Universal Computing Unit (Multi-function)	
	VJXS -01□-□□N0	Universal Computing Unit	
VJET -01□-1 0 0 0		Ethernet/RS-485 Converter	



IMPORTANT

- Do not mount any signal conditioners other than the above. It may result in a communication failure or a malfunction. Be sure to confirm the model and suffix codes of each signal conditioner when mounting it.
- The "□" in Model and suffix codes differs depending on the models of signal conditioner. Refer to the general specifications for respective signal conditioners.

(2) Related User's Manual

This manual dose not explain the details (handling, maintenance and the like) for signal conditioners mounted on VJCE-01A.

The lineup and User's Manual numbers of JUXTA VJ series signal conditioners are shown below.

VJCE-01A VJ Mounting Base for Communication: This manual IM 77J01C51-11E VJJA1 Distributor IM 77J01A01-01E VJA4 Distributor (Non-isolated) IM 77J01A04-01E VJA5 Distributor (with Square Root Extractor) IM 77J01A05-01E VJA7 Distributor IM 77J01A05-01E VJB1 CT Converter (RMS) IM VJB1-01E VJB3 AC Converter (RMS) IM VJB3-01E VJC1 Loop Powered Isolator IM VJC1-01E VJD1 Tachometer Converter VJD1 Tachometer Converter IM VJD1-01E VJG1 PT Converter (RMS) IM VJG1-01E VJG1 PT Converter (RMS) IM VJG1-01E VJH1 Isolator IM 77J01H01-01E VJH1 Isolator IM 77J01H01-01E VJH1 Isolator (Multi-function) IM 77J01H01-01E VJHR Isolator (Multi-function) IM 77J01H02-01E VJHR Isolator (Reverse Output Type) IM VJH1-01E VJP4 Pluse Rate Converter IM VJP4-01E VJP4 Pluse Rate Converter (Multi-function) IM 77J01P08-01E VJQ0 Analog to Pulse Converter IM VJQ0-01E VJQ2 Pulse to Analog Converter (Free Range Type) IM 77J01Q0-01E VJQ3 Pulse to Analog Converter (Multi-function) IM 77J01Q08-01E VJQ3 Potentiometer Converter IM 77J01Q08-01E VJQ4 Potentiometer Converter IM 77J01R06-01E VJQ5 Potentiometer Converter IM 77J01R06-01E VJQ7 Analog to Pulse Converter IM 77J01R06-01E VJS2 Potentiometer Converter IM 77J01R06-01E VJS2 Potentiometer Converter IM 77J01R07-01E VJS3 Potentiometer Converter IM 77J01R07-01E VJJ7 Universal Temperature Converter IM 77J01U07-01E VJX7 Universal Computing Unit (Multi-function) IM 77J01U07-01E VJX8 Universal Computing Unit (Multi-function) IM 77J01U07-01E VJX9 Universal Computing Unit (Multi-function) IM 77J01J11-01E VJS6 Potentiometer Setting Tool IM 77J01J11-01E VJS6 Potentiometer Setting Tool IM 77J01J11-01E	Model	Product Name [Document title]	User's Manual No.
VJA4 Distributor (Non-isolated) IM 77J01A04-01E VJA5 Distributor (with Square Root Extractor) IM 77J01A05-01E VJA7 Distributor IM 77J01A05-01E VJA7 Distributor IM 77J01A07-01E VJB1 CT Converter (RMS) IM VJB1-01E VJB3 AC Converter (RMS) IM VJB3-01E VJC1 Loop Powered Isolator IM VJC1-01E VJD1 Tachometer Converter IM VJD1-01E VJF1 Pneumaic to Electrical Converter IM VJD1-01E VJF1 Pneumaic to Electrical Converter IM VJG1-01E VJH1 Isolator IM 77J01H01-01E VJH1 Isolator IM 77J01H01-01E VJH7 Isolator (Multi-function) IM 77J01H07-01E VJH8 Isolator (Super Speed Response Type) IM VJHF-01E VJH9 Isolator (Reverse Output Type) IM 77J01H12-01E VJP4 Pluse Repeater IM VJP1-01E VJP4 Pluse Rate Converter IM VJP4-01E VJP8 Pluse Rate Converter IM VJP4-01E VJQ0 Analog to Pulse Converter IM VJQ0-01E VJQ2 Pulse to Analog Converter (Free Range Type) IM 77J01Q08-01E VJQ3 Pulse to Analog Converter (Multi-function) IM 77J01Q08-01E VJQ4 Pulse to Analog Converter (Multi-function) IM 77J01Q08-01E VJQ5 Potentiometer Converter IM 77J01Q08-01E VJQ7 Analog to Pulse Converter IM 77J01Q08-01E VJQ8 Pulse to Analog Converter (Multi-function) IM 77J01Q08-01E VJQ9 Potentiometer Converter IM 77J01Q08-01E VJQ9 Potentiometer Converter IM 77J01Q08-01E VJS2 Potentiometer Converter IM 77J01Q08-01E VJS3 Potentiometer Converter IM 77J01Q08-01E VJS4 Potentiometer Converter IM 77J01Q08-01E VJS5 Potentiometer Converter IM 77J01Q08-01E VJS7 Potentiometer Converter IM 77J01Q07-01E VJJ7 Universal Computing Unit (Multi-function) IM 77J01Q07-01E VJX8 Universal Computing Unit (Multi-function) IM 77J01Q07-01E VJX8 Universal Computing Unit (Multi-function) IM 77J01Q07-01E VJX8 Universal Computing Unit (Multi-function) IM 77J01Q17-01E	VJCE-01A	VJ Mounting Base for Communication: This manual	IM 77J01C51-11E
VJA5 Distributor (with Square Root Extractor) VJA7 Distributor VJB1 CT Converter (RMS) VJB3 AC Converter (RMS) VJC1 Loop Powered Isolator VJD1 Tachometer Converter VJD1 Tachometer Converter VJG1 Pr Converter (RMS) VJH1 Isolator VJH1 Isolator VJH7 Isolator (Multi-function) VJH7 Isolator (Multi-function) VJHF Isolator (Super Speed Response Type) VJHR Isolator (Reverse Output Type) VJP1 Pulse Repeater VJP4 Pluse Rate Converter VJP8 Pluse Rate Converter VJQ0 Analog to Pulse Converter VJQ0 Analog to Pulse Converter VJQ2 Pulse to Analog Converter (Free Range Type) VJQ2 Pulse to Analog Converter (Multi-function) VJR6 RTD Converter VJR6 RTD Converter VJR7 Potentiometer Converter VJS2 Potentiometer Converter VJS3 Potentiometer Converter VJS5 Potentiometer Converter VJJ7 Universal Computing Unit (Multi-function) VJR7 VJN2-01E VJJ7 Universal Computing Unit (Multi-function) VJR7 Im 77J01107-01E VJJS Universal Computing Unit (Multi-function) VJR7 Parameter Setting Tool IM 77J01J77-01E	VJA1	Distributor	IM 77J01A01-01E
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VJHRIsolator (Reverse Output Type)IM 77J01H12-01EVJP1Pulse RepeaterIM VJP1-01EVJP4Pluse Rate ConverterIM VJP4-01EVJP8Pluse Rate Converter (Multi-function)IM 77J01P08-01EVJQ0Analog to Pulse ConverterIM VJQ0-01EVJQ2Pulse to Analog Converter (Free Range Type)IM VJQ2-01EVJQ7Analog to Pulse ConverterIM 77J01Q17-01EVJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM VJS2-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM 77J01E11-01EVJT7Parameter Setting ToolIM 77J01J77-01E	VJH7	Isolator (Multi-function)	IM 77J01H07-01E
VJP1Pulse RepeaterIM VJP1-01EVJP4Pluse Rate ConverterIM VJP4-01EVJP8Pluse Rate Converter (Multi-function)IM 77J01P08-01EVJQ0Analog to Pulse ConverterIM VJQ0-01EVJQ2Pulse to Analog Converter (Free Range Type)IM VJQ2-01EVJQ7Analog to Pulse ConverterIM 77J01Q17-01EVJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM 77J01S07-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01J77-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJHF	Isolator (Super Speed Response Type)	IM VJHF-01E
VJP4Pluse Rate ConverterIM VJP4-01EVJP8Pluse Rate Converter (Multi-function)IM 77J01P08-01EVJQ0Analog to Pulse ConverterIM VJQ0-01EVJQ2Pulse to Analog Converter (Free Range Type)IM VJQ2-01EVJQ7Analog to Pulse ConverterIM 77J01Q17-01EVJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM 77J01S07-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01J77-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJHR	Isolator (Reverse Output Type)	IM 77J01H12-01E
VJP8Pluse Rate Converter (Multi-function)IM 77J01P08-01EVJQ0Analog to Pulse ConverterIM VJQ0-01EVJQ2Pulse to Analog Converter (Free Range Type)IM VJQ2-01EVJQ7Analog to Pulse ConverterIM 77J01Q17-01EVJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM VJS2-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01J77-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJP1	Pulse Repeater	IM VJP1-01E
VJQ0Analog to Pulse ConverterIM VJQ0-01EVJQ2Pulse to Analog Converter (Free Range Type)IM VJQ2-01EVJQ7Analog to Pulse ConverterIM 77J01Q17-01EVJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM VJS2-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01J77-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJP4	Pluse Rate Converter	IM VJP4-01E
VJQ2Pulse to Analog Converter (Free Range Type)IM VJQ2-01EVJQ7Analog to Pulse ConverterIM 77J01Q17-01EVJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM VJS2-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01J77-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJP8	Pluse Rate Converter (Multi-function)	IM 77J01P08-01E
VJQ7Analog to Pulse ConverterIM 77J01Q17-01EVJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM VJS2-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01J77-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJQ0	Analog to Pulse Converter	IM VJQ0-01E
VJQ8Pulse to Analog Converter (Multi-function)IM 77J01Q08-01EVJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM VJS2-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01J77-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJQ2	Pulse to Analog Converter (Free Range Type)	IM VJQ2-01E
VJR6RTD ConverterIM 77J01R06-01EVJS2Potentiometer ConverterIM VJS2-01EVJS7Potentiometer Converter (Multi-function)IM 77J01S07-01EVJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01L1-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJQ7	Analog to Pulse Converter	IM 77J01Q17-01E
VJS2 Potentiometer Converter IM VJS2-01E VJS7 Potentiometer Converter (Multi-function) IM 77J01S07-01E VJT6 Thermocouple Converter IM 77J01T06-01E VJU7 Universal Temperature Converter IM 77J01U07-01E VJX7 Universal Computing Unit (Multi-function) IM 77J01X07-01E VJXS Universal Computing Unit IM VJXS-01E VJET Ethernet/RS-485 Converter IM 77J01E11-01E VJ77 Parameter Setting Tool IM 77J01J77-01E	VJQ8	Pulse to Analog Converter (Multi-function)	IM 77J01Q08-01E
VJS7 Potentiometer Converter (Multi-function) IM 77J01S07-01E VJT6 Thermocouple Converter IM 77J01T06-01E VJU7 Universal Temperature Converter IM 77J01U07-01E VJX7 Universal Computing Unit (Multi-function) IM 77J01X07-01E VJXS Universal Computing Unit IM VJXS-01E VJET Ethernet/RS-485 Converter IM 77J01E11-01E VJ77 Parameter Setting Tool IM 77J01J77-01E	VJR6	RTD Converter	IM 77J01R06-01E
VJT6Thermocouple ConverterIM 77J01T06-01EVJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01E11-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJS2	Potentiometer Converter	IM VJS2-01E
VJU7Universal Temperature ConverterIM 77J01U07-01EVJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01E11-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJS7	Potentiometer Converter (Multi-function)	IM 77J01S07-01E
VJX7Universal Computing Unit (Multi-function)IM 77J01X07-01EVJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01E11-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJT6	Thermocouple Converter	IM 77J01T06-01E
VJXSUniversal Computing UnitIM VJXS-01EVJETEthernet/RS-485 ConverterIM 77J01E11-01EVJ77Parameter Setting ToolIM 77J01J77-01E	VJU7	Universal Temperature Converter	IM 77J01U07-01E
VJET Ethernet/RS-485 Converter IM 77J01E11-01E VJ77 Parameter Setting Tool IM 77J01J77-01E	VJX7	Universal Computing Unit (Multi-function)	IM 77J01X07-01E
VJ77 Parameter Setting Tool IM 77J01J77-01E	VJXS	Universal Computing Unit	IM VJXS-01E
	VJET	Ethernet/RS-485 Converter	IM 77J01E11-01E
VJ Series Communication Function IM 77J01J11-01E	VJ77	Parameter Setting Tool	IM 77J01J77-01E
		VJ Series Communication Function	IM 77J01J11-01E

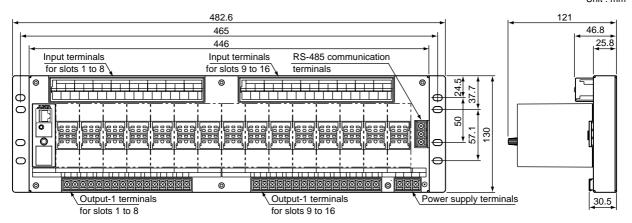
1. PRODUCT OVERVIEW

The VJCE-01A is a horizontally installed, side-by-side multiple mounting base that complies with the standard rack-mounting dimensions specified by the JIS/EIA standards. A maximum of 16 signal conditioners of JUXTA VJ series can be mounted on VJCE.

- Different signal conditioners of VJ series can be mixed and housed in the same mounting base.
- The VJET Ethernet/RS-485 converter can be mounted.
- Multi-drop connection is used for output-2.

2. EXTERNAL DIMENSIONS

Unit: mm



3. INSTALLATION OF VJCE-01A

The VJCE-01A can be installed horizontally on 19 inches rack complies with JIS/EIA standards, or horizontally on the wall. Under the conditions mentioned in Article 3.2, a maximum of 5 mounting bases can be installed on one side of the cabinet.

3.1 Environmental Conditions

3.1.1 Ambient temperature and humidity

Ambient temperature and humidity during operation of the instruments would be as follows:

Temperature: 0 to 50°C, Humidity: 5 to 90% RH

3.1.2 Vibration condition

Vibration of installation place would be less than 2m/s² at 10 to 150Hz

3.1.3 Air purification degree

Air dirty is desirous to be less than 0.2mg/m³. Also, corrosive gas such as hydrogen sulfide, sulfurous acid gas, chlorine and conductive dust such as iron and carbon are desirous to be as little as possible.

(Note) Permissible limit of hydrogen sulfide (H₂S) and sulfurous acid gas (SO₂) would be as standard of JEIDA-29 (1979) CLASS S1*.

JEIDA: Japan Electronic Industrial Development Association JEIDA-29 (1979) CLASS S1

H₂S: 0.01ppm or less, SO₂: 0.05ppm or less

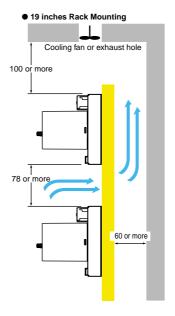
(Ambient temperature: 25° C \pm 5° C, ambient humidity: 40 to 80%RH)

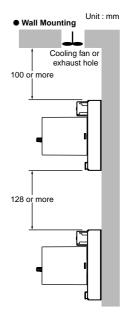
3.2 Condition of Installation



NOTE

- (1) Secure space for top and bottom to avoid heating.
 - Apart more than 100 mm from the floor board.
 - Apart more than 100 mm from panel top and make air exhaust hole or set cooling fan at panel upper.
 - If wall stands at back in case of rack mounting, apart more than 60mm from the wall for ventilation.
- (2) Take enough space for front and side faces so as not to interfere wiring, piping and maintenance area.
- (3) In case storing in cabinet, air cooling is compulsorily required to prevent from raise of temperature.
- (4) Do not install it on the heating materials.
- (5) In case of installing the VJCE-01A one above another to up and down direction, take installation space as shown in the figure on the right. (78 mm for rack mounting, 128 mm for wall mounting)





3.3 Installation

3.3.1 Installation of VJCE-01A

Use four (4) M5 screws for installation.

3.3.2 Installation of signal conditioners

Connect the pin on the back of the signal conditioner to the VJCE-01A connector as shown in the figure on the right. Then tighten the fixing screw on the front of the signal conditioner.



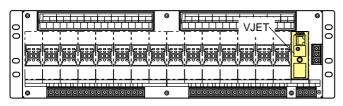
NOTE

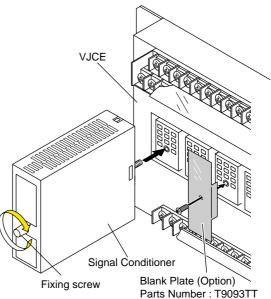
Insert and pull out the signal conditioner vertically to VJCE. Inserting and pulling it out slantwise may make the pin bent and cause a failure such as a bad contact.



IMPORTANT

Only one VJET can be mounted in slot 16 of VJCE-01A. Do not mount it in other slots.





4. EXTERNAL WIRING

4.1 Field Side Wiring and Wiring of Power Supply and Ground

Flexible twisted cable and durable round crimp-on terminals of good contact are recommended to use.



Cross sectional area	Screw	ØD1 Hole dia. (mm)	A Terminal out dia. (mm)	L Terminal length (mm)	øD2 Insulation coating (mm)
0.75 mm ² 0.9 mm ² 1.25 mm ² 2.0 mm ²	M3.5	3.7 or more	6.9 or less	About 19	3.2 or more

4.1.1 Signal cable

Nominal cross-sectional area of conductor: 0.75 to 2 mm²

Example of suitable cable: Vinyl code (VSF) twisted cable (JIS C3306)

4.1.2 Power cable

Nominal cross-sectional area of conductor: 1.25 to 2 mm²

Example of suitable cable: 600V vinyl code (IV) twisted cable (JIS C3307)

Vinyl insulated cable (KIV) (JIS C3316)

4.1.3 Ground cable

Nominal cross-sectional area of conductor: 2 mm²

Example of suitable cable: 600 V vinyl code (IV) twisted cable (JIS C3307)

Vinyl insulated cable (KIV) (JIS C3316)

4.2 Field Side Input/Output Terminals, Piping and System Side Wiring

Assignment of Input/Output Terminals on and after page 7 shows relation between VJCE-01A field side input/output terminals and signal conditioner input /output signal at the terminals. Field side input/output terminals are M3.5 screws.

Connect input air pressure signal of VJF1 to connecting hole of front face of signal conditioner directly.

Connect power and ground cables to power terminals of VJCE-01A. Power would internally be distributed to respective signal conditioners.



WARNING

It is recommended that CT protector (CTG-5) be attached to the current input terminals connected to the secondary side of the CT when mouning VJB1 (CT transmitter) on VJCE-01A. Since a high potential develops over the secondary side, the CT may burn and break if you unplug the VJB1 from the VJCE-01A while the VJB1 is turned on and it has no CT protector.



IMPORTANT

- Ensure the followings before turning on the power. Use of signal conditioners of VJ series ignoring the specifications may cause overheating or damage to VJCE-01A and signal conditioners.
 - Power supply voltage and input signal value applied to VJCE-01A and signal conditioners should meet the required specifications.
 - The external wiring to the terminals is as specifications.
- Do not operate the product in the presece of flammable or explosive gases or vapors. To do so is highly dangerous.
- Many semi-conductor integrated circuit parts are used for signal conditioners. Take care of static electricity trouble at the maintenance or change of setting for the signal conditioners.
- ullet The grounding resistance must be 100 Ω (JIS Class D grounding). The length and thickness of the grounding cable should be as short and thick as possible. Directly connect the lead from the ground terminal of the product to the ground. Do not carry out daisy-chained inter-ground terminal wiring.

5. ASSIGNMENT OF INPUT/OUTPUT TERMINALS AND POWER SUPPLY TERMINALS

Only the signal conditioners of single-output type and the signal conditioners of dual-output type with output-2 for communication (RS-485) can be mounted. Be sure to check not only the model but also suffix codes of the signal conditioner to be mounted. (Refer to List of Mountable Models on page 2.)

5.1 Assignment of Input/Output Terminals

		"N.	C." in the ta	able denote	s unassigr	ed termina
Mounta	Input Terminal			Output-1 Terminal		
Modrita	1	3	4	7	9	
VJH1, VJH7	, VJHF, VJHR	+	_			
VJQ0, VJQ7	7	0	۸, ۹	N.C.	+	_
VJXS, VJX7	7	<u></u>				
		Chai	nnel-1		Channel-1	
VJC1 (*1)				N.C.		
		+	_		+	_
VITC		+	_			
VJT6				Ŷ	+	_
VJU7 (TC o	r mv input)		RJC			
VJR6		Α	В	В		
VJU7 (RTD	input)	9 M	₩	QW	+	_
V307 (KTD	inputy		w -			
		100%	CENTER			
VJS2, VJS7	,	Moreover	Ŷ ¥	Mo	+	_
	When using internal power	PS+	_	N.C.		-
VJA1	supply		¬ Ŷ		+	
VJA5			• <u> </u>			
VJA7	When using external power	N.C.	+	_		
V 07 (1	supply (When used as an iso-	ان			+	_
	lator)					
		Char	Channel-1		Chan	nel-1
VJA4 (*1)		+	_	N.C.	+	_
		<u> </u>				
		Α	±			
VJB1		٧ _	Р	N.C.	+	_
		<u>~</u> ~~				
		V	±			
VJG1		ୃଦ୍ଦ	° N.C.			_
		L N				
		A/V	±			
VJB3	VJB3		~ P	N.C.	+	_
		V	±			
VJD1			S	N.C.	+	_
			<u>></u>			
VJP1	Non-voltage contact / Voltage contact	N.C.	+	-		
VJP4	Internally powered current pulse	PS+	+	_		
VJP8	(two-wire system)		ک_۸	<u></u> ∧ ⁹ (*2)	+	_
VJQ2	Internally powered voltage pulse	PS+	+	_		
VJQ8 (three-wire system)						
VJF1		N.C.	N.C.	N.C.		
		Input through one-touch fitting Ø6 of the VJF1.			+	_
VJET (*3)	N.C.	N.C.	N.C.	N.C.	N.C.	

Input Terminals			ls	Output-1 Teminals
SLOT*			* 7 9	
	3	1		
N.	C. 4	1		
			_	

"*" in the figure above denotes a slot number. Slots are numbered from 1 to 16, beginning with the leftmost slot, when viewed from the VJCE-01A front.

Assignment of RS-485 communication terminals (Output-2 terminals)



Terminal Number	Signal Symbol		
1	RS-485	B (+)	
2	RS-485	A (-)	
3	RS-485	COM	

^{*} The terminal for output-2 is multidrop-connected to the output-2 of all slots.

^{*1:} Only 1-channel type of VJC1 and VJA4 can be mounted.

^{*2:} When receiving current input (current pulse), external shunt resistor (receiving resistor) is required.

^{*3:} Only one VJET can be mounted in slot 16 of VJCE-01A. Do not mount it in other slots.

5.2 Assignment of Power Supply Terminals



Terminal Number	Signal Symbol
1	SUPPLY L(+)
2	SUPPLY $N(-)$
3	GND ≟



CAUTION

Ensure that the power supply voltage for VJCE-01A matches that for the signal conditioner to be mounted on VJCE-01A. Supply of different power supply voltage may damage VJCE-01A and signal conditioners.

6. CALIBRATION

Refer to the User's Manual of respective signal conditioners for how to calibrate and the equipment required for calibration.

6.1 Items to Check before Power on

- Supply power rating is 12 to 36 V DC or 85 to 246 V AC / DC.
- Wiring of signal cables
- Installation, ambient temperature, humidity, dust and vibration

Please power on after checking the above items.

The VJCE-01A would be in operational status upon power on. However, 10 to 15 minutes are required to satisfy its specifications and performance