General Specifications

Model VJCE
VJ Mounting Base

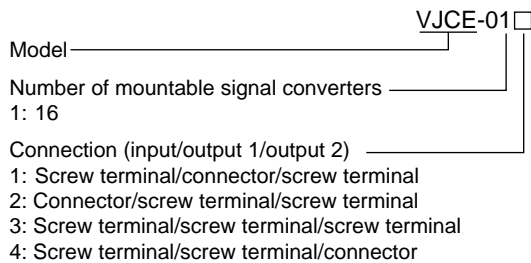**JUXTA**

GS 77J01C51-01E

■ General

The VJCE is a horizontally installed, side-by-side multiple mounting base that complies with the standard rack-mounting dimensions specified by the JIS/EIA standards. The VJCE base can accommodate up to 16 signal converters in the JUXTA VJ series.

The VJCE base features the following:

- Different signal converter models in the VJ series can be mixed and housed in the same base.
- Signal connevtion of input/output is selectable out of 4 types.

■ Model and Suffix Codes

VJCE-01□

Model

Number of mountable signal converters
1: 16

Connection (input/output 1/output 2)
1: Screw terminal/connector/screw terminal
2: Connector/screw terminal/screw terminal
3: Screw terminal/screw terminal/screw terminal
4: Screw terminal/screw terminal/connector

■ Items to be specified when ordering

Specify Model and Suffix Code

■ Mountable Models

Model and suffix codes	Mountable Signal Converters
VJCE-011 VJCE-014	VJA1, VJA4, VJA5, VJA7, VJB1 VJC1, VJD1, VJF1, VJG1, VJH1 VJH7, VJHF, VJHR, VJP1, VJP4 VJP8, VJQ0, VJQ2, VJQ7, VJQ8 VJR6, VJS2, VJS7, VJSS, VJT6 VJU7, VJX7, VJXS
VJCE-012	VJH1, VJH7, VJHF, VJHR, VJQ0 VJQ7 VJX7, VJXS, VJHK
VJCE-013	VJA1, VJA4, VJA5, VJA7, VJB1 VJC1, VJD1, VJF1, VJG1, VJH1 VJH7, VJHF VJHR, VJP1, VJP4 VJP8, VJQ0, VJQ2, VJQ7, VJQ8 VJR6, VJS2, VJS7, VJSS, VJT6 VJU7, VJX7, VJXS, VJAK, VJHK VJMK, VJQK, VJRK, VJSK, VJTK

■ Standard Performance

Insulation resistance: 100 MΩ minimum at 500 V DC between input, output-1, ouput-2, power supply terminals and grounding terminals mutually.

Withstanding voltage: 2000 V AC for one minute between input, (output-1, output-2), power supply terminals and grounding terminals mutually;

1000 V AC for one minute between output-1 and output-2.
However, the above is not applied to the following.

VJCE-011: 500 V AC for one minute between output-1 and grounding terminal.
VJCE-012: 500 V AC for one minute between input and grounding erminal.
VJCE-014: 500 V AC for one minute between output-2 and grounding terminal.

Note1: When 2-channel type of VJA4 or VJC1 is mounted on VJCE base, not isolated between the channels.

Operating temperature range: 0 to 50°C
Operating humidity range: 5 to 90% RH (no condensation)
Supply voltage range: 85 to 264 V AC / DC (47 to 63 Hz), or 12 to 48 V DC, depending on the power supply specifications of signal converters (Power is fed through the power supply terminals on the VJCE base directly to the mounted signal converters).

Note2: Signal converters must be operated on the same power supply.

■ Mounting and Appearance

Signal connection:

Model	Input	Output-1	Output-2
VJCE-011	M3.5 screw terminal	Connector	M3.5 screw terminal
VJCE-012	Connector	M3.5 screw terminal	M3.5 screw terminal
VJCE-013	M3.5 screw terminal	M3.5 screw terminal	M3.5 screw terminal
VJCE-014	M3.5 screw terminal	M3.5 screw terminal	Connector

Connector: 40-pin connector, the dedicated connection cable is required.
Cable connection: Using KS2 cable
Installation: Rack-mounted, or wall-mounted in a horizontal position
Mounting screw: Four M5 size screws
Finish color: Black
External dimensions: See below. However, the depth is a the size when the signal converter is mounted.
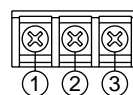VJCE-011, VJCE-012, VJCE-014:
130 (H) × 482.6 (W) × 121 (D) mm
VJCE-013: 177 (H) × 482.6 (W) × 121 (D) mm
Weight: Approx. 3.1 kg (the base alone)
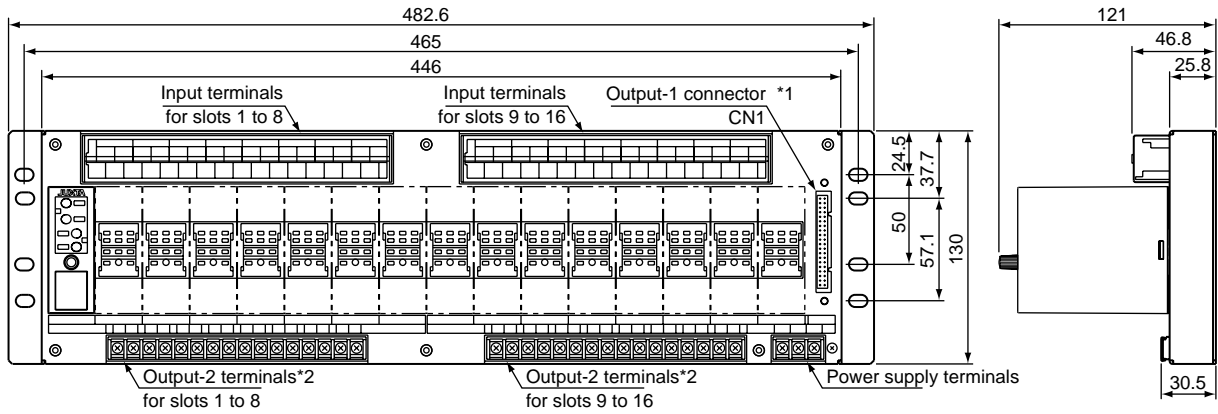
■ Assignment of Power Supply Terminals

Terminal Number	Signal Symbol	
①	SUPPLY	L (+)
②	SUPPLY	N (−)
③	GND	⏚

YOKOGAWA ◆
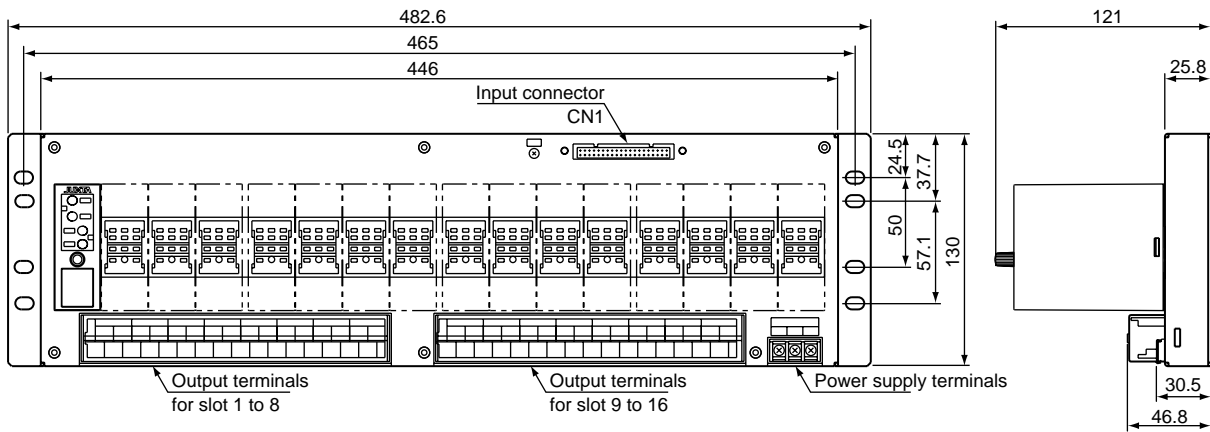## Yokogawa M&C Corporation

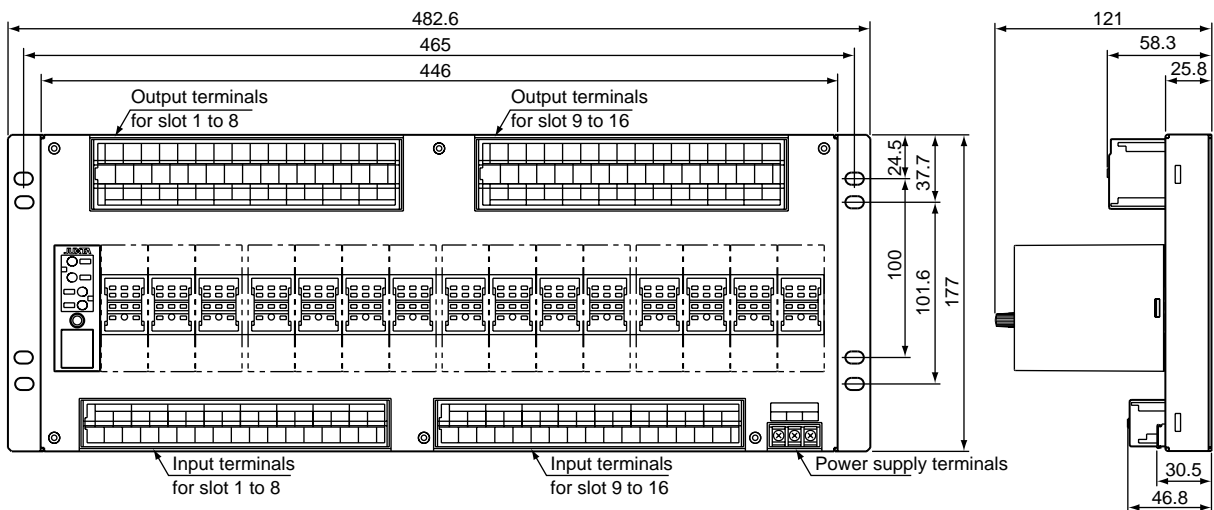# ■ External Dimensions

Unit : mm

● VJCE-011 and VJCE-014

*1 Output-2 connector for VJCE-014
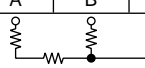*2 Output-1 terminals for VJCE-014

● VJCE-012

● VJCE-013

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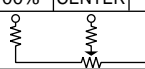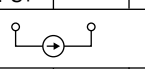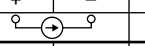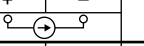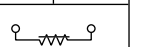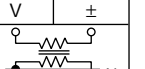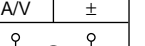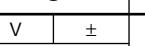
■ Assignment of Input/Output Terminals

● VJCE-011 and VJCE-014

"N.C." in the table dnotes unassigned terminals.

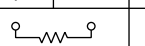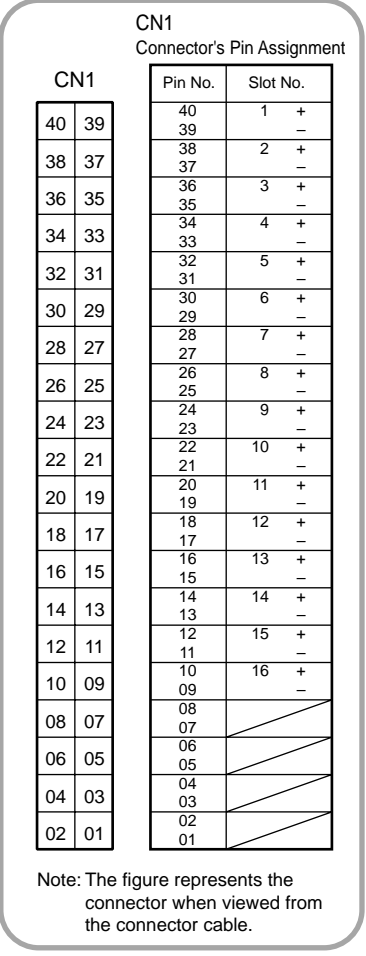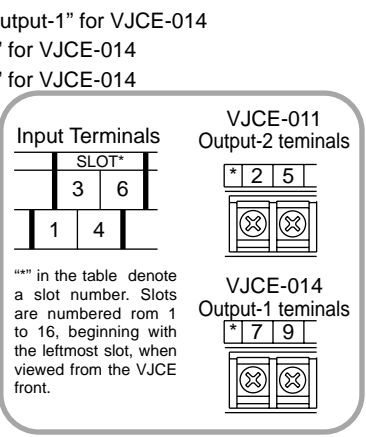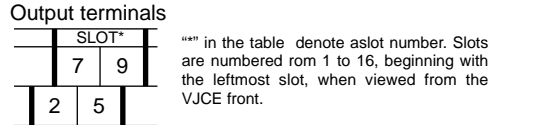| Mountable Signal Converters		Input Terminal				Output-2 Terminal	
		1	3	4	6	2	5
VJH1, VJH7, VJHF, VJHR		+	−	N.C.	N.C.	+	−
VJQ0, VJQ7							
VJXS, VJX7		(Note 3)					
VJC1 (Note 1)		Channel-1		Channel-2		Channel-2	(Note1)
(For 2-channel type, only the voltage output is mountable on VJCE-011)		+	−	+	−	+	−
VJT6		+	−	N.C.		+	−
VJU7 (TC or mV input)		RJC					
VJR6, VJU7 (RTD input)		A	B	B		+	−
				N.C.			
VJS2, VJS7		100%	CENTER	0%		+	−
				N.C.			
VJA1 VJA5 VJA7	When using internal power supply	PS+	−	N.C.		+	−
				N.C.			
	When using external power supply (When used as an isolator)	N.C.	+	−		+	−
				N.C.			
VJA4 (Note 1)		Channel-1		Channel-2		Channel-2	(Note1)
(For 2-channel type, only the voltage output is mountable on VJCE-011)		+	−	+	−	+	−
VJB1 (Note 2)		A	±	N.C.	N.C.	+	−
VJG1 (Note 2)		V	±	N.C.	N.C.	+	−
		L	N				
VJB3		A/V	±	N.C.	N.C.	+	−
VJD1		V	±	N.C.	N.C.	+	−
VJP1	Non-voltage contact / Voltage contact	N.C.	+	−		+	−
VJP4, VJP8	Internally powered current pulse (two-wire system)	PS+	+	−	N.C.	+	−
VJQ2 (Note 2)				(Note 3)			
VJQ8	Internally powered current pulse (three-wire system)	PS+	+	−		+	−
VJSS		+	−	+	−	+	−
		(Note 3)		(Note 3)			
VJF1		N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
		Input through one-touch fitting ø6 of transmitter.					

"Output-1" for VJCE-014
"9" for VJCE-014
"7" for VJCE-014

Input Terminals

	SLOT*	
3		6
1		4

VJCE-011 Output-2 teminals

*	2	5
	⊗	⊗

"*" in the table denote a slot number. Slots are numbered rom 1 to 16, beginning with the leftmost slot, when viewed from the VJCE front.

VJCE-014 Output-1 teminals

*	7	9
	⊗	⊗

CN1 Connector's Pin Assignment

CN1		Pin No.	Slot No.	
40	39	40 / 39	1	+ / −
38	37	38 / 37	2	+ / −
36	35	36 / 35	3	+ / −
34	33	34 / 33	4	+ / −
32	31	32 / 31	5	+ / −
30	29	30 / 29	6	+ / −
28	27	28 / 27	7	+ / −
26	25	26 / 25	8	+ / −
24	23	24 / 23	9	+ / −
22	21	22 / 21	10	+ / −
20	19	20 / 19	11	+ / −
18	17	18 / 17	12	+ / −
16	15	16 / 15	13	+ / −
14	13	14 / 13	14	+ / −
12	11	12 / 11	15	+ / −
10	09	10 / 09	16	+ / −
08	07	08 / 07		
06	05	06 / 05		
04	03	04 / 03		
02	01	02 / 01		

Note: The figure represents the connector when viewed from the connector cable.

Note 1: Only 1-channel type is mountable on VJCE-014. (When mounting on VJCE-014, the input terminals 4, 5 are N.C., and output-1 is channel-1
Note 2: VJB1, VJG1 and VJQ2 are oneoutput type. So when mounting on VJCE-011, output-2 terminals are N.C.
Note 3: When receiving current input (current pulse), external shunt resistor (receiing resistor) is required.
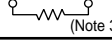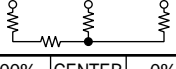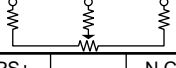
● VJCE-012
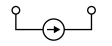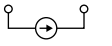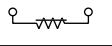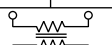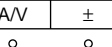
Mountable Signal Converters	Output-1 Terminal		Output-2 Terminal	
	7	9	2	5
VJH1, VJH7, VJHF, VJHR, VJQ0 VJQ7, VJXS, VJX7, VJHK	+	−	+	−

CN1 connector's pin assignmet is same as VJCE-011.

Output terminals

	SLOT*	
	7	9
2		5

"*" in the table denote aslot number. Slots are numbered rom 1 to 16, beginning with the leftmost slot, when viewed from the VJCE front.

● VJCE-013   "N.C." in the table dnotes unassigned terminals.

Mountable Signal Converters		Input Terminal			Output-1 Terminal		Output-2 Terminal		
		1	3	4	7	9	2	5	6
VJH1, VJH7, VJHF, VJHR VJQ0, VJQ7 VJXS, VJX7, VJHK		+	−	N.C.	+	−	+	−	N.C.
		Channel-1			Channel-1				
VJC1 (Note 1)		+	−	N.C.	+	−	N.C.	N.C.	N.C.
VJT6 VJU7 (TC or mV input) VJTK		+	−		+	−	+	−	N.C.
		RJC							
VJR6, VJU7 (RTD input) VJRK		A	B	B	+	−	+	−	N.C.
VJS2, VJS7 VJSK		100%	CENTER	0%	+	−	+	−	N.C.
VJA1 VJA5 VJA7 VJAK	When using internal power supply	PS+	−	N.C.	+	−	+	−	N.C.
	When using external power supply (When used as an isolator)	N.C.	+	−					
		Channel-1			Channel-1				
VJA4 (Note 1)		+	−	N.C.	+	−	N.C.	N.C.	N.C.
VJB1		A	±	N.C.	+	−	N.C.	N.C.	N.C.
VJG1		V	±	N.C.	+	−	N.C.	N.C.	N.C.
VJB3		A/V	±	N.C.	+	−	+	−	N.C.
VJD1		V	±	N.C.	+	−	+	−	N.C.
VJP1 VJP4, VJP8 VJQ2 (Note 2) VJQ8, VJQK	Non-voltage contact / Voltage contact	N.C.	+	−	+	−	+ (Note 2)	− (Note 2)	N.C.
	Internally powered current pulse (two-wire system)	PS+	+	−					
	Internally powered current pulse (three-wire system)	PS+	+	−					
VJF1		N.C.	N.C.	N.C.	+	−	N.C.	N.C.	N.C.
		Input through one-touch fitting ø6 of transmitter.							
When output-2 is communication output.					+	−	B (+)	A (−)	COM
When output-2 is alarm output.		Regarding input, refer to the above model by model.			+	−	AL1	COM	AL2
VJAK, VJHK, VJMK, VJQK, VJRK VJSK, VJTK									N.C.

Output Terminals

2	5
	6
7	9
SLOT*	

Input Terminals

SLOT*	
4	
1	3

"*" in the table denote a slot number. Slots are numbered rom 1 to 16, beginning with the leftmost slot, when viewed from the VJCE front.

Note 1: Only 1-channel type of VJC1 and VJA4 are mountable on VJCE base.
Note 2: Since VJQ2 is one output type, output-2 terminals are N.C.
Note 3: When receiving current input (current pulse), external shunt resistor (receiing resistor) is required.

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