General Specifications

Model VJCE-011, VJCE-012
VJCE-013, VJCE-014
VJ Mounting Base

GS 77J01C51-01E

JUXTA

■ 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 conditioners in the JUXTA VJ series.

The VJCE base features the following:

• Different signal conditioner models in the VJ series can be mixed and housed in the same base.

■ Model and Suffix Codes

VJCE-01□

Model

Number of mountable signal conditioners
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

• Model and Suffix Codes: e.g. VJCE-012

■ Mountable Models

Model and suffix codes	Mountable Signal Conditioners
VJCE-011 VJCE-014	VJA1, VJA4, VJA5, VJA7, VJB1, VJB3, 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, VJB3 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

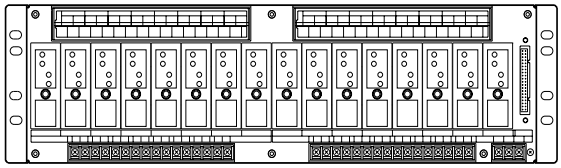
Insulation resistance: 100 MΩ minimum at 500 V DC between input, output-1, ouput-2, power supply terminals and grounding terminals mutually.

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 terminals.

VJCE-012: 500 V AC for one minute between input and grounding terminals.



VJCE-014: 500 V AC for one minute between output-2 and grounding terminals.

Note 1: 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 conditioners (Power is fed through the power supply terminals on the VJCE base directly to the mounted signal conditioners).

Note 2: Signal conditioners must be operated on the same power supply.

Note 3: Confirm the specifications of each conditioner since the operating conditions for each conditioner differ.

■ 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: Refer to External Dimensions.

Weight: Approx. 2.6 kg (the base alone)

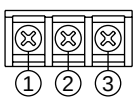
■ Safety Standards

Certified for CSA1010

CSA1010 category: CAT II (IEC1010-1)

The above certified/approved instrument is only for voltage of 24 V DC±10%.

■ Assignment of Power Supply Terminals



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

GS 77J01C51-01E

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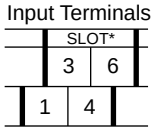
■ Assignment of Input/Output Terminals

● VJCE-011

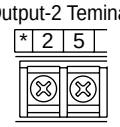
"N.C." in the table denotes unassigned terminals.

Mountable Signal Conditioners		Input Terminal 1	Input Terminal 3	Input Terminal 4	Input Terminal 6	Output-2 Terminal 2	Output-2 Terminal 5
VJH1, VJH7, VJHF, VJHR VJQ0, VJQ7 VJXS, VJX7		+	−	N.C.	N.C.	+	−
		(*3)					
VJC1 (*1)		Channel-1		Channel-2		Channel-2	
		+	−	+	−	+	−
VJT6 VJU7 (TC or mV input)		+	−		N.C.	+	−
		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 (*1)		Channel-1		Channel-2		Channel-2	
		+	−	+	−	+	−
VJB1		A	±	N.C.	N.C.	N.C.	N.C.
VJG1		V	±	N.C.	N.C.	N.C.	N.C.
		L N					
VJB3		A/V	±	N.C.	N.C.	+	−
VJD1		V	±	N.C.	N.C.	+	−
VJP1 VJP4 VJP8 VJQ2 (*2) VJQ8	Non-voltage contact / Voltage contact	N.C.	+	−	N.C.	+	−
	Internally powered current pulse (two-wire system)	PS+	+	− (*3)			
	Internally powered voltage pulse (three-wire system)	PS+	+	−			
VJSS		+	−	+	−	+	−
		(*3)		(*3)			
VJF1		N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
		Input through one-touch fitting ∅6 of the VJF1.					

Input Terminals



Output-2 Teminals



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

CN1

40	39
38	37
36	35
34	33
32	31
30	29
28	27
26	25
24	23
22	21
20	19
18	17
16	15
14	13
12	11
10	09
08	07
06	05
04	03
02	01

CN1
Connector's Pin Assignment

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

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

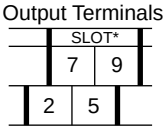
*1: For 2-channel type, only the voltage output is mountable on VJCE base. Output of channel-1 is output to the connector (CN1).
*2: Since VJQ2 is single output type, output-2 terminals are N.C.
*3: When receiving current input (current pulse), external shunt resistor (receiving resistor) is required.

● VJCE-012

Mountable Signal Conditioners	Output-1 Terminal 7	Output-1 Terminal 9	Output-2 Terminal 2	Output-2 Terminal 5
VJH1, VJH7, VJHF, VJHR, VJQ0 VJQ7, VJXS, VJX7, VJHK	+	−	+	−

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

Output Terminals



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

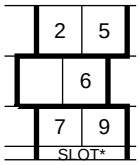
● VJCE-013

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

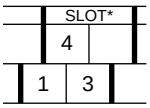
Mountable Signal Conditioners		Input Terminal 1	Input Terminal 3	Input Terminal 4	Output-1 Terminal 7	Output-1 Terminal 9	Output-2 Terminal 2	Output-2 Terminal 5	Output-2 Terminal 6
VJH1, VJH7, VJHF, VJHR VJQ0, VJQ7 VJXS, VJX7, VJHK		+	−	N.C.	+	−	+	−	N.C.
		(*3)							
VJC1 (*1)		Channel-1		N.C.	Channel-1		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.	+	−					
VJA4 (*1)		Channel-1		N.C.	Channel-1		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.
		L N							
VJB3		A/V	±	N.C.	+	−	+	−	N.C.
VJD1		V	±	N.C.	+	−	+	−	N.C.
VJP1 VJP4, VJP8 VJQ2 (*2) VJQ8, VJQK	Non-voltage contact / Voltage contact	N.C.	+	−	+	−	+ (*2)	− (*2)	N.C.
	Internally powered current pulse (two-wire system)	PS+	+	− (*3)					
	Internally powered voltage 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 the VJF1.							
When output-2 is communication output.		Regarding input, refer to the above model by model.			+	−	B (+)	A (−)	COM
When output-2 is alarm output.							AL1	COM	AL2
VJAK, VJHK, VJMK, VJQK, VJRK VJSK, VJTK									N.C.

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

Output Terminals



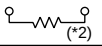
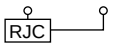
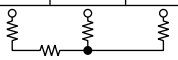
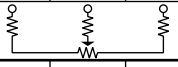
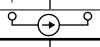
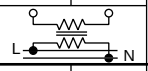
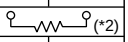
Input Terminals



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

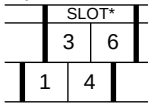
● VJCE-014

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

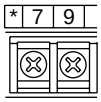
Mountable Signal Conditioners		Input Terminal 1	3	4	6	Output-1 Terminal 7	9
VJH1, VJH7, VJHF, VJHR VJQ0, VJQ7 VJXS, VJX7		+	−	N.C.	N.C.	+	−
		 (*2)					
VJC1 (*1)		Channel-1		N.C.	N.C.	Channel-1	
		+	−			+	−
VJT6 VJU7 (TC or mV input)		+	−		N.C.	+	−
		 RJC					
VJR6 VJU7 (RTD input)		A	B	B	N.C.	+	−
							
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 (*1)		Channel-1		N.C.	N.C.	Channel-1	
		+	−			+	−
							
VJB1		A	±	N.C.	N.C.	+	−
							
VJG1		V	±	N.C.	N.C.	+	−
		 L N					
VJB3		A/V	±	N.C.	N.C.	+	−
							
VJD1		V	±	N.C.	N.C.	+	−
							
VJP1 VJP4 VJP8 VJQ2 VJQ8	Non-voltage contact / Voltage contact	N.C.	+	−	N.C.	+	−
	Internally powered current pulse (two-wire system)	PS+	+	−			
			 (*2)				
	Internally powered voltage pulse (three-wire system)	PS+	+	−			
VJSS		+	−	+	−	+	−
		 (*2)		 (*2)			
VJF1		N.C.	N.C.	N.C.	N.C.	+	−
		Input through one-touch fitting ∅6 of the VJF1.					

*1: Only 1-channel type of VJC1 and VJA4 are mountable on VJCE base.
*2: When receiving current input (current pulse), external shunt resistor (receiving resistor) is required.

Input Terminals



Output-1 Teminals



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

CN1

40	39
38	37
36	35
34	33
32	31
30	29
28	27
26	25
24	23
22	21
20	19
18	17
16	15
14	13
12	11
10	09
08	07
06	05
04	03
02	01

CN1
Connector's Pin Assignment

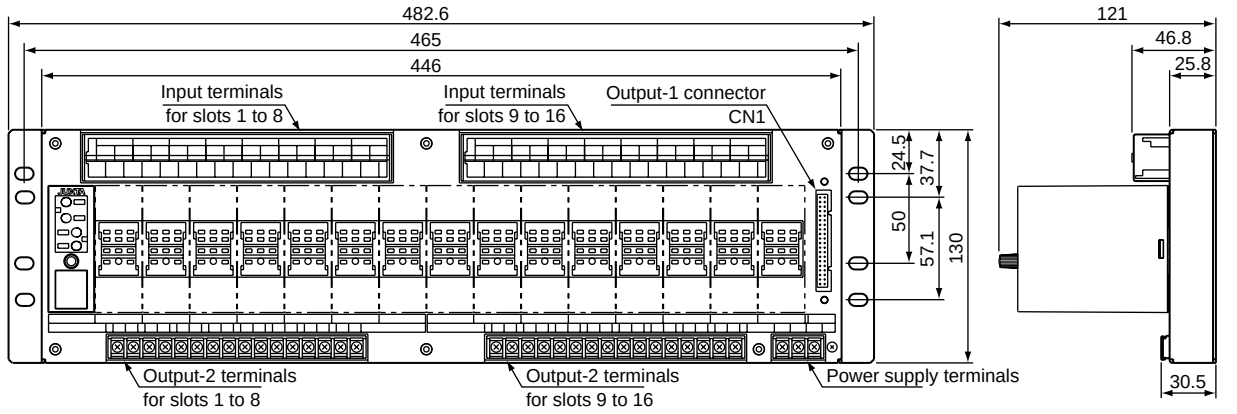
Pin No.	Slot No.
40	1 +
39	1 −
38	2 +
37	2 −
36	3 +
35	3 −
34	4 +
33	4 −
32	5 +
31	5 −
30	6 +
29	6 −
28	7 +
27	7 −
26	8 +
25	8 −
24	9 +
23	9 −
22	10 +
21	10 −
20	11 +
19	11 −
18	12 +
17	12 −
16	13 +
15	13 −
14	14 +
13	14 −
12	15 +
11	15 −
10	16 +
09	16 −
08	
07	
06	
05	
04	
03	
02	
01	

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

External Dimensions

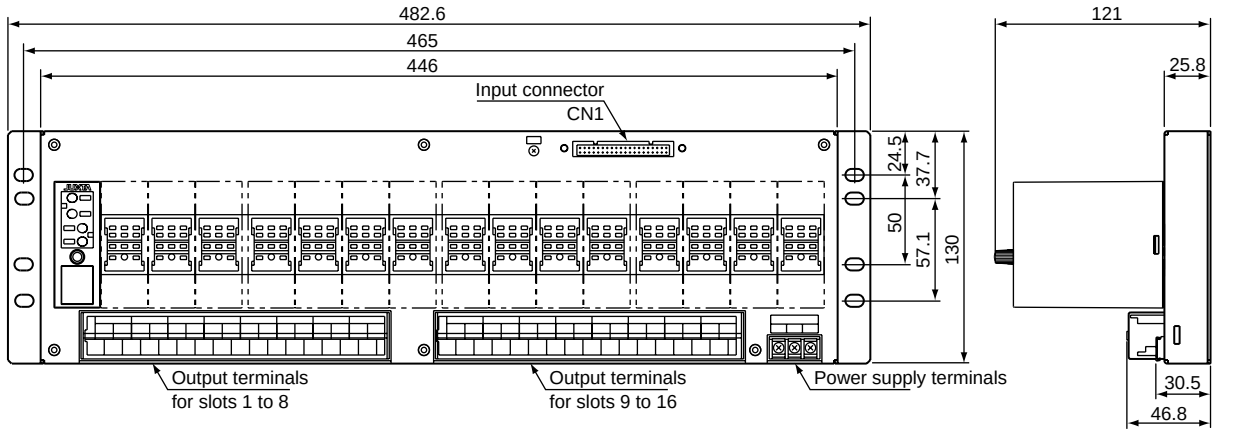
● VJCE-011

Unit : mm



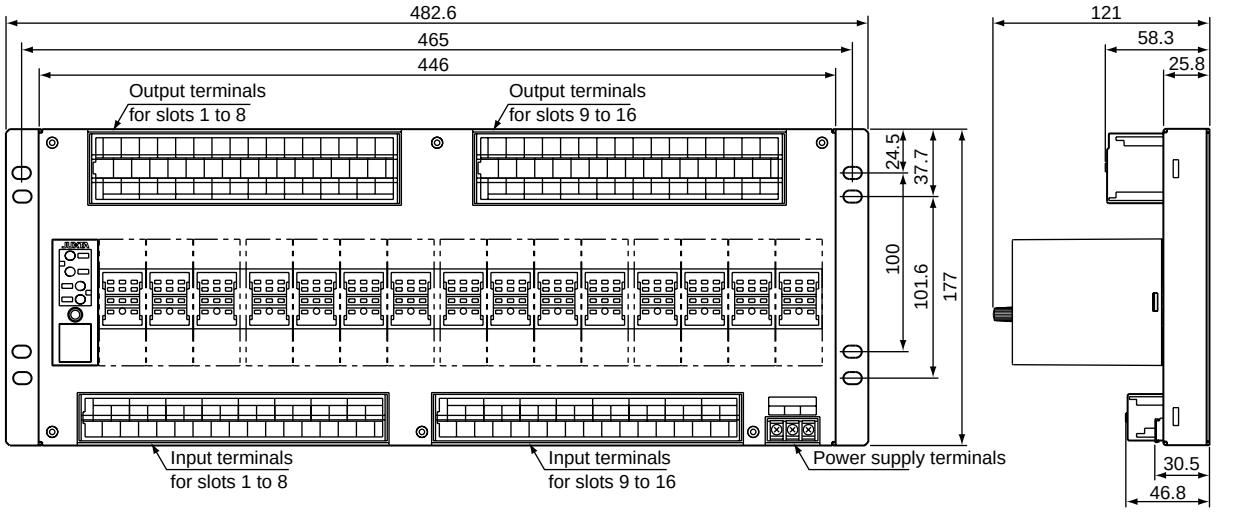
● VJCE-012

Unit : mm



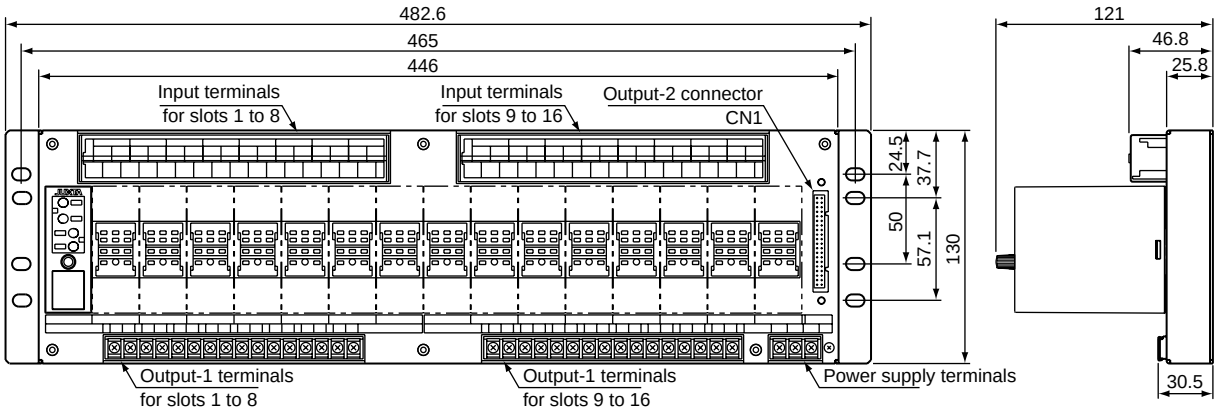
● VJCE-013

Unit : mm



● VJCE-014

Unit : mm



• The information covered in this document is subject to change without notice for reasons of improvements in quality and/or performance.