

JCM-33A



■ Model name

JCM-33A - ☐ ☐ ☐ ☐ ☐ ☐					JCM-330(W72×H72×D100mm)	
Alarm1 (A1)	A				Applied (Selectable by key operation)	
Control output (OUT1)		R			Relay contact	
		S			Non-contact voltage (for SSR drive)	
		A			DC current	
Input			M		Multi-range input	
Supply voltage				1	24V AC / DC	
Option			A2		Alarm 2	
			LA		Loop break alarm	
			W(5A)		Heater burnout alarm	Rated current: 5A
			W(10A)			Rated current: 10A
			W(20A)			Rated current: 20A
			W(50A)			Rated current: 50A
			D ☐		Control output (OUT2) (Heating/Cooling control output)	DR: Relay contact DS: Non-contact voltage DA: DC current
			P24		Isolated power output	
			C5		Serial communication (RS-485)	
			TC		Terminal cover	
			IP		Dust-proof/Drip-proof (IP54)	

Please designate the specification from the ☐, ☐☐☐ columns.

When adding an option, enter it punctuated by comma.

- For DC current output type, option W cannot be added.
- 100 to 240V AC is standard supply voltage. However when ordering 24V AC/DC, enter "1" after the input code.

■ Option combination

Option combination	A 2	L A	W	D ☐	P24	C 5	B K	T C	I P
Combination 1	☐	☐	☐	—	—	☐	☐	☐	☐
Combination 2	☐	☐	—	☐	☐	☐	☐	☐	☐
Combination 3	—	—	☐	☐	—	☐	☐	☐	☐
Combination 4	☐	☐	—	—	☐	☐	☐	☐	☐
Combination 5	☐	☐	☐	—	—	—	☐	☐	☐
Combination 6	☐	☐	—	☐	—	—	☐	☐	☐
Combination 7	—	—	☐	☐	—	—	☐	☐	☐
Combination 8	☐	☐	—	—	—	☐	☐	☐	☐

■ Rated scale

Input type		Scale	
Thermocouple	K	—200 to 1370 °C	—320 to 2500 F
		—199.9 to 400.0 °C	—199.9 to 750.0 F
	J	—200 to 1000 °C	—320 to 1800 F
	R	0 to 1760 °C	0 to 3200 F
	S	0 to 1760 °C	0 to 3200 F
	B	0 to 1820 °C	0 to 3300 F
	E	—200 to 800 °C	—320 to 1500 F
	T	—199.9 to 400.0 °C	—199.9 to 750.0 F
	N	—200 to 1300 °C	—320 to 2300 F
PL- II	0 to 1390 °C	0 to 2500 F	
C (W/Re5-26)	0 to 2315 °C	0 to 4200 F	
RTD	Pt100	—200 to 850 °C	—300 to 1500 F
		—199.9 to 850.0 °C	—199.9 to 999.9 F
	JPt100	—200 to 500 °C	—300 to 900 F
			—199.9 to 500.0 °C
DC current	4 to 20mA DC 0 to 20mA DC		
DC voltage	0 to 1V DC	—1999 to 9999, —199.9 to 999.9	
	0 to 10V DC	—19.99 to 99.99, —1.999 to 9.999	
	1 to 5V DC		
	0 to 5V DC		

- For DC inputs, scaling and decimal point place change are possible.
- For DC current input, 50 Ω shunt resistor (sold separately) has to be externally installed.

■ **Input** For the input type, refer to the "Rated scale"

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|---------------|--|
| Thermocouple: | External resistance, 100 Ω or less
(However, for B input, external resistance, 40 Ω or less) |
| RTD | : 3-wire system (Resistance per wire: 10 Ω or less) |
| DC current | : Input impedance, 50 Ω (Connect 50 Ω shunt resistor between input terminals)
Allowable input current, 50mA or less (when using 50 Ω shunt resistor) |
| DC voltage | : Input impedance, 1M Ω or greater (for input 0 to 1V DC)
Input impedance, 100k Ω or greater (for inputs 0 to 10V DC, 1 to 5V DC, 0 to 5V DC) |

■ Accuracy (Setting, Indication)

- Thermocouple: Within $\pm 0.2\%$ of each input span ± 1 digit, or within $\pm 2^\circ\text{C}$ (4°F), whichever is greater
However, R, S inputs, 0 to 200°C (400°F): Within $\pm 6^\circ\text{C}$ (12°F)
B input, 0 to 300°C (600°F): Accuracy is not guaranteed.
K, J, E, T, N inputs, less than 0°C (32°F): Within 0.4% of each input span ± 1 digit
RTD : Within $\pm 0.1\%$ of each input span ± 1 digit, or within $\pm 1^\circ\text{C}$ (2°F), whichever is greater
DC current, DC voltage: Within $\pm 0.2\%$ of each input span ± 1 digit

■ Input sampling period 0.25 seconds

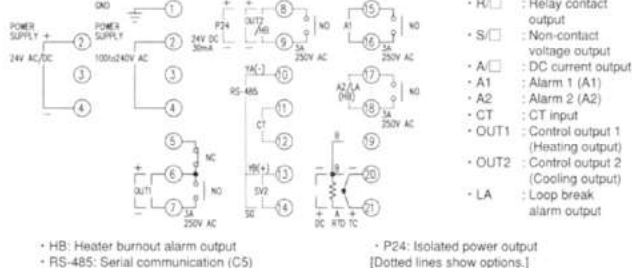
- Control output Relay contact: 1a1b 3A 250V AC (resistive load),
1A 250V AC (inductive load $\cos \phi = 0.4$)
Electric life: 100,000 times
- Non-contact voltage: 12~13V DC Max. 40mA (short-circuit protected)
DC current: 4 to 20mA DC Load resistance: Max. 550 Ω
PID, PI, PD, P, ON/OFF
- Control action Alarm action and Energized/Deenergized can be selected by keypad operation.
- Alarm 1 (A1)
- No alarm action
 - High limit alarm (deviation setting), Low limit alarm (deviation setting),
High limit alarm with standby (deviation setting), Low limit alarm with
standby (deviation setting)
Setting range: — (Input span) to input span
 - High/Low limits alarm (deviation setting), High/Low limit range alarm
(deviation setting), High/Low limits alarm with standby (deviation setting)
Setting range: 0 to input span
 - Process high alarm, Process low alarm
Setting range: Input range low limit value to input range high limit value
 - When input has a decimal point, the negative minimum value is —199.9
and the positive maximum value is 999.9.
 - For DC current or voltage inputs, input span is the same as the input
range scaling span.
 - For DC inputs, input range low limit (high limit) value is the same as
input range scaling low limit (high limit) value.
- Action: ON/OFF action
- Output: Relay contact 1a, 3A 250V AC (resistive load),
1A 250V AC (inductive load $\cos \phi = 0.4$)

■ Supply voltage

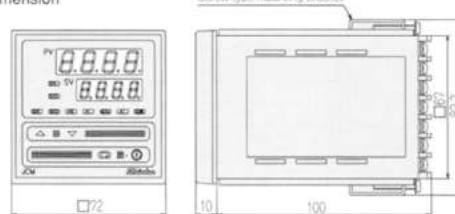
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|---------------------|--|
| Supply voltage | Allowable voltage fluctuation range: 85 to 264V AC, 20 to 28V AC/DC |
| Power consumption | Approx. 8VA |
| Ambient temperature | 0 to 50°C |
| Ambient humidity | 35 to 85%RH (Non-condensing) |
| Mounting method | Screw type mounting bracket
Mountable panel thickness: Within 1 to 15mm |
| Weight | Approx. 300g |
| Attached function | Sensor correction, Setting value lock, Power failure countermeasure, Self-diagnosis, Automatic cold junction temperature compensation (for thermocouple only), Sensor burnout alarm, Input burnout |
| Altitude | 2,000m or less |
| Option | Refer to the "Model name". |

■ Termina

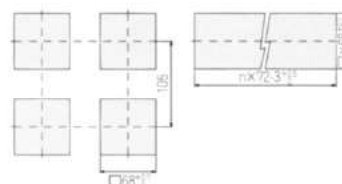
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■ External dimension



■ Panel cutout



- This catalog is as of July 2024, and specifications are subject to change without notice.
- If you have any inquiries, please consult us or our agency.

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