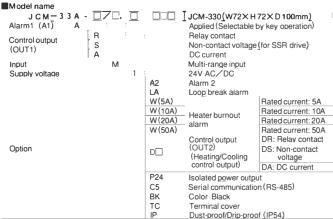
Digital indicating controllers JCM-33A





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.
- If option C5 is added, SV1/SV2 external selection is not available.
- · 100 to 240V AC is standard supply voltage. However when ordering 24V AC/DC, enter "1" after the input code.

Option combination

	A 2	LA	W	D	P 24	C 5	BK	TC	ΙP
Combination 1	0	0	0	_	_	0	0	0	0
Combination 2	0	0	_	0	_	0	0	0	0
Combination 3	_	_	0	0	_	0	0	0	0
Combination 4	0		_	_	\circ	\circ	\circ	0	\circ
Combination 5	0	0	0	_	_	_	0	0	0
Combination 6	0	\circ	_	\circ	_	_	\circ	0	\circ
Combination 7	_	_	0	0	_	_	0	0	0
Combination 8	0		_	_		_		0	

Rated scale						
Input	type	Scale				
Thermocouple	К	−200 to 1370 °C −199.9 to 400.0 °C	−320 to 2500 F −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			
	В	0 to 1820 °C	0 to 3300 F			
	E	−200 to 800 °C	-320 to 1500 ℉			
	Т	-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			
	71100	-199.9 to 850.0°C	−199.9 to 999.9 F			
	ID4400	−200 to 500 °C	−300 to 900 F			
	JPt100	-199.9 to 500.0 C	−199.9 to 900.0 F			
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.
- \cdot For DC current input, 50 Ω $\,$ shunt resistor (sold separately) has to be externally

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

Thermocouple: External resistance, $100\,\Omega$ or less (However, for B input, external resistance, $40\,\Omega$ or less)

: 3-wire system (Resistance per wire: $10\,\Omega$ or less) : Input impedance, $50\,\Omega$ (Connect $50\,\Omega$ shunt resistor between input DC current

Allowable input current, 50mA or less (when using 50 Ω shunt resistor) 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 voltage

■Accuracy (Setting, Indication)

Thermocouple: Within ±0.2% of each input span ±1digit, or within ±2°C (4F).

whichever is greater

However, R, S inputs, 0 to 200°C (400°F): Within ±6°C (12°F) B input, 0 to 300°C (600 F): Accuracy is not guaranteed. K, J, E, T, N inputs, less than 0 $^{\circ}\text{C}$ (32 F): Within 0.4% of each input span ±1digit

: Within ±0.1% of each input span±1digit, or within ±1°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 action

Alarm 1 (A1)

Relay contact: 1a1b 3A 250V AC (resistive load), Control output 1A 250V AC (inductive load $\cos \phi = 0.4$) Electric life: 100,000 times

Non-contact voltage: 12 % V DC Max. 40mA (short-circuit protected) DC current: 4 to 20mA DC Load resistance: Max. 550 Ω

PID, PI, PD, P, ON/OFF

Alarm action and Energized/Deenergized can be selected by keypad

operation. 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 limit 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 $\cos \phi = 0.4$)

Electric life: 100,000 times 100 to 240V AC 50/60Hz, 24V AC/DC 50/60Hz ■Supply voltage

Allowable voltage fluctuation range: 85 to 264V AC, 20 to 28V AC/DC Approx. 8VA

■Power consumption ■Ambient temperature 0 to 50°C

35 to 85%RH (Non-condensing) ■Ambient humidity

■Mounting method

Screw type mounting bracket Mountable panel thickness: Within 1 to 15mm

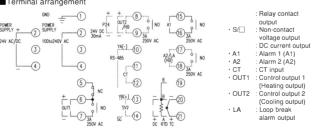
Weight Approx. 300g

Sensor correction, Setting value lock, Power failure countermeasure, Attached function

Self-diagnosis, Automatic cold junction temperature compensation (for thermocouple only), Sensor burnout alarm, Input burnout

Option Refer to the "Model name"

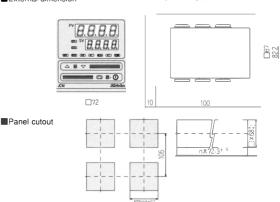
■Terminal arrangement



HB: Heater burnout alarm output RS-485: Serial communication (C5)

P24: Isolated power output [Dotted lines show options.]

type mounting bracke



- This catalog is as of June 2016, and specifications are subject to change without notice
- · If you have any inquiries, please consult us or our agency