Digital Temperature Indicating Controller

BCS1 series



Features

- 48 x 48mm Temperature indicating controller
- Money saving
- Space saving
- Made in Japan

Model

		BCS1	R	-	0	0	M00	-	0	00000000-00
Series	BCS1	BCS1								
Control output	Relay contact		R							
(OUT)	Non-contact voltage		S							
Supply voltage	100 to 240V AC					0				
Input	Multi-input	M00								
Event output	No Event output								0	
	2 Event outputs								2	

Rated scale

Input		Ra	Resolution	
	K	-200 to 1370℃	-320 to 2500°F	1℃ (°F)
М	J	-200 to 1000 ℃	-320 to 1800°F	1℃ (°F)
	Pt100	-199.9 to 850.0℃	-199.9 to 999.9°F	0.1℃ (°F)

3A

Terminal arrangement





<u>B</u>(12)

TC RTD

POWER SUPPLY: 100 to 240V AC

EV1 : Event 1 (A1) output (option)

EV2 : Event 2 (A2) output (option)

- OUT : Control output
- TC : Thermocouple input
- RTD : Resistance temperature detector input





Standard specifications

	Thermocouple : K, J, External resistance: 100Ω or less						
Input	RTD : Pt100 3-wire system, Allowable input lead wire resistance: 10Ω or less per wire						
Δοςμιταςγ	Thermocouple : Within $\pm 0.3\%$ of each input span ± 1 digit,						
(Setting Indication)	However, less than 0°C (32°F): Within $\pm 0.4\%$ of each input span ± 1 digit						
(octaing, maloution)	RTD : Within ±0.2% of each input span ±1digit						
	 PID (with auto-tuning function) PL action: When derivative time is set to 0 						
	PD action (with auto-reset function): When integral time is set to 0.						
	d integral time are set to 0.						
	• ON/OFF action: When proportional band is set to 0.						
	OUT proportional band(P): 0 to 1000° or 2000° (Default value: 10°) (ON/OFF action when set to 0)						
Control action	With decimal point: 0.0 to 999.9°C or 0.0 to 999.9°F (ON/OFF action when set to 0.0) Integral time(I) : 0 to 1000sec (OFF when set to 0) (Default value: 200sec) Derivative time(D) : 0 to 300sec (OFF when set to 0) (Default value: 50sec) OUT proportional cycle : 1 to 120sec (Default value: Relay contact: 30sec, Non-contact voltage: 3sec) APW : 0 to 100% (Default value: 50%)						
	ANVV . U 100% (Default value, 50%) ON/OFF hysteresis : 0.1 to 100.0°C (°F) (Default value; 1.0°C)						
	Output high limit low limit : 0 to 100% (Not available for ON/OFF action)						
	(Default value: Output low limit: 0% Output high limit: 100%)						
	Relay contact: 1a Control capacity: 3A 250V AC (Resistive load), 1A 250V AC (Inductive load $\cos\phi$ =0.4)						
Control output	Electric life: 100,000 cycles						
	Ion-contact voltage (for SSR drive): 10 ⁺³ 0 ^V DC, Max. 20mA DC						
Input sampling	0.5560	Insulation 10MQ or more at 500V/DC					
period	0.5560	resistance					
Supply voltage	100 to 240V AC, 50/60Hz	Dielectric strength	1.5kV AC for 1 minute Between input terminal and power terminal Between output terminal and power terminal				
Allowable voltage fluctuation range	85 to 264V AC	Case, Front panel	Flame-resistant resin (Color: black), Membrane sheet				
Power consumption	Approx. 7VA	Mounting	Flush				
Ambient temperature	0 to 50°℃	External dimensions	48X48X68mm (WxHxD) (Depth of control panel interior: 60mm)				
Ambient humidity	35 to 85%RH (Non-condensing)	Weight	Approx. 120g				
Attached functions	Sensor correction, Set value lock, Power failure countermeasure, Self diagnosis, Automatic cold junction temperature compensation, Burnout (Overscale), Indication range, Control range, Warm-up indication						
Option	2 Event outputs (A1, A2)						
Accessories included	Mounting frame 1 piece, Instruction manual 1 copy						
Accessories sold separately	Terminal cover						
External dimensions (Scale: mm) Panel cutout (Scale: mm)							

External dimensions (Scale: mm) Mounting frame



This catalog is as of Mar 2011 and its contents are subject to change without notice.
 If you have any inquiries, please consult us or our agency.

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