Temperature Controller

■ AX series Multi input digital temperature controller

▌Specification

Model		AX9	AX2	AX7	AX3	AX4
Appearance		C€	C€	C€	C€	C€
W×H×D (mm)		96 X 96 X 63	48 X 96 X 63	72 X 72 X 63	96 X 48 X 63	48 X 48 X 63
Input type		Multi input (Thermocouple: K, J, R, T, IEC 584−1), (RTD: Pt 100 Ω, IEC751)				
Sampling cycle		100 ms				
Input impedance		max 1 MΩ				
Allowable input voltage		10 V d.c. max				
Display accuracy		±0.3 % of FS ±1 digit (In case of R type, ±1.0 % of ±1 digit in the 0 ∼ 600 ℃ range)				
Display type		7 Segment LED (PV: red, SV: green)				
Front Size (mm)	PV	22.5×11.2	14.5×7.0	14.5×7.0	15.9×7.6	13.0×6.5
	SV	18.7×9.3	10.8×5.2	9.4×4.7	12.0×6.0	9.2×5.2
Input		• Thermocouple : 0.1 ℃ (TC−K2, TC−J), 0.5 ℃ (TC−K1) • RTD : 0.03 ℃, (0.1 ℉)				
Insulation resistance		min 20 MΩ, 500 V d.c. 1 minute (primary terminal−secondary terminal)				
Dielectric strength		2300 V a.c. 50/60 Hz, for 1min (primary terminal−secondary terminal)				
Control method		PID control by Auto−Tuning, ON / OFF control.				
Control output operation		Reverse operation / Direct operation selectable by the parameter setting				
Control output		• Relay output ※Selectable by the parameter setting 1a contact, 3A 240 V a.c., 3 A 30 V d.c. (resistive load)				
		• Voltage pulse output for running SSR [time sharing proportional control (CYC)] • Voltage pulse output for running SSR 0/12 V d.c., pulse voltage (resistive load minimum 600 Ω)				
Power supply voltage		100 − 240 V a.c. 50 / 60 Hz				
Voltage fluctuation		± 10 % of the power supply voltage				
Power consumption		Within 5.5 VA				
Ambient temperature		− 5 ∼ 50 ℃				
Ambient humidity		35 ∼ 85 % R.H(but without dew condensation)				
Vibration resistance		10 − 55 Hz, 0.75 mm, each to direction X, Y and Z for 2 hours				
Shock resistance		300 m/s² to direction 6 each 3 times				
Weight (Weight included the weight of box)		320 g	320 g	180 g	300 g	400 g

▌Suffix Code

Model		Code	Information	
AX		□−□□	Digital temperature controller (Multi input: K, J, Pt100 Ω)	
Dimension		2	AX2 : 48 X 96 ㎜	
		3	AX3 : 96 X 48 ㎜	
		4	AX4 : 48 X 48 ㎜	
		7	AX7 : 72 X 72 ㎜	
		9	AX9 : 96 X 96 ㎜	
Output selection		1	SSR + Relay1 + Relay2	Relay or SSR as control output (Selectable in operator setup mode)
		2	SSR + Relay1 + Relay2 + Relay3	
		1B	SSR + Relay1(Form c) + Relay2	Only for AX2, 3, 7, 9
		2B	SSR + Relay1(Form c) + Relay2 + Relay3	
		3	4 − 20 ㎃ + Relay2	Current output as control output
		4	4 − 20 ㎃ + Relay2 + Relay3	
Power supply voltage		A	100 − 240 V a.c. 50 / 60 Hz	

※ Form C : Normal close type contact.
※ Relay output operates as control output, alarm output and LBA output depending on the internal parameter setting.