AX series

- Multi Input/Output
- High speed sampling cycle (0.1 sec)
- Installation depth : 63mm
- Control output selectable : Reverse operation/Direct operation
- PID auto tuning

· Suffix code

Model		Code		Information	
AX	□ -	□	□	Digital temperature controller	
Dimension	2			AX2 : 48 X 96 mm	
	3			AX3 : 96 X 48 mm	
	4			AX4 : 48 X 48 mm	
	7			AX7 : 72 X 72 mm	
	9			AX9 : 96 X 96 mm	
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 ㎐	

※ Form C : Normal close type contact

※ Relay output operates as control output, alarm output and LBA output depending on the internal parameter setting.

· Specification

		AX4	AX3	AX7	AX2	AX9
Appearance						
		48 X 48 X 63	96 X 48 X 63	72 X 72 X 63	48 X 96 X 63	96 X 96 X 63
Input type		Multi input(Thermocouple : K, J, R, T, IEC 584-1), (RTD : Pt100 Ω, IEC751)				
Sampling cycle		100 ms				
Input impedance		max 1 ㏁				
Albwable input wiring resistance		10 V DC				
Display accuracy	Thermocouple K,J,T	± 0.3 % of F.S ±1 digit (RJC error ±0.8%) ℃				
	Thermocouple R	±1.0% of F.S ±1 digit in the 0 ~ 600 ℃ range				± 2.0℃ in the range of 0~600℃, ± 0.8℃ outside of the range
		±0.3 % F.S ±1 digit in the 600 ~ 1700 ℃ range				
	Pt100	±0.3 % of F.S ±1 digit℃				
Display type		7 Segment LED (PV : red, SV : green)				
Font size	PV	13.0 X 6.5	15.9 X 7.6	14.5 X 7.0	14.5 X 7.0	22.5 X 11.2

	SV	9.2 X 5.2	12.0 X 6.0	9.4 X 4.7	10.8 X 5.2	18.7 X 9.3
Input resolving power		• Thermocouple : 0.1℃ (K2, J, T), 0.5℃ (K1), 0.3℃ / 1℉ (R) • RTD : 0.03℃, (0.1 ℉)				
Insulation resistance		min 20㏁, 500 V DC 1 minute (primary terminal - secondary terminal)				
Dielectric strength		2,300 V AC, 50/60 ㎐, for 1min (primary terminal - secondary terminal)				
Control method		PID control by Auto-tuning, ON/OFF control				
Manual reset		Users set with in the range 0.0% - 100.0%				
Control output operation		Reverse operation / Direct operation selectable by the parameter setting				
Control output		• Relay output ※Selectable by the prameter setting 1a contact, 3 A 240 V AC, 3 A 30 V DC(resistive load)				
		• Voltage pluse output for running SSR [time sharing proportional control (CYC)] • Voltage plus output for running SSR [phase control(PHR)] 0/12 V DC, pulse voltage (resistive load minimum 600Ω)				
		4 - 20 ㎃ DC(resistive load max. 600Ω)				
Power supply voltage		100 - 240 V AC 50 / 60 ㎐				
Voltage fluctuation		±10 % of the power supply voltage				
Power consumption		5.5 VA max				
Ambient temperature		-5 ~ 50℃				
Ambient humidity		35 ~ 85% RH (without condensation)				
Vibration resistance		10 -55 ㎐, 0.75 mm, each to direction, X, Y and Z for 2 hours				
Shock resistance		300 ㎨ to direction 6 each 3 times				
Weight		180 g	320 g	300 g	320 g	400g