Temperature Controller

TC203AX, TC303AX / TC303A





Features:

- > 3 digits, 7 segment LED single display
- ► TC/ RTD inputs
- ON OFF/ PID control
- Single set point
- °C/°F selectable
- Field selectable control output (Relay or SSR)

Technical specifications

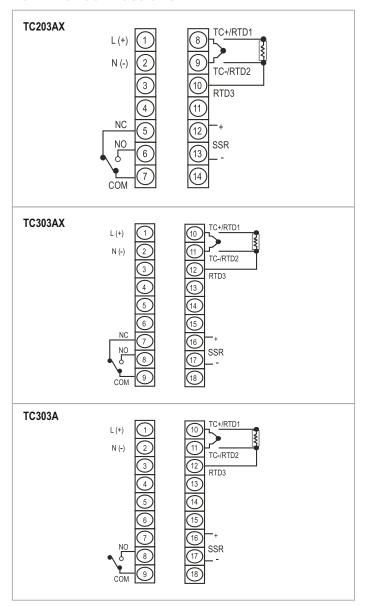
Display specifications				
Display	3 digits, 7 Segment digital display			
Height of display	TC203AX - 13.5mm, TC303AX - 14mm			
LED indication	R: Control output ON			
Input specifications				
Inputs	Thermocouple (J, K, T, R, S)/ RTD (PT100)			
Resolution	Fixed 1°			
Indication accuracy	For J, K & T inputs: 0.25% of F.S. ±1° For R & S inputs: 0.5% of F.S. ±2° (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. ±1° (F.S. = Full scale)			
Temperature unit	°C/°F selectable			
Input filter (FTC)	0.2 to 10.0sec			
Sampling time	250 ms			
Output specifications				
Control output (Relay or SSR	user selectable)			
Relay contact (SPDT)	Main Output: NO: 10A 250 VAC/ 24 VDC NO/ NC: 5A/ 5A 250 VAC/ 24 VDC (Except TC303A)			
SSR drive (Voltage pulse)	12 VDC, 50 mA			
Functional specifications				
Control action	PID Control with auto tuning ON-OFF control			
Proportional band (P)	1.0 to 400°C			
Integral time (I)	0.0 to 99.9 min			
Derivative time (D)	0 to 999 sec			
Cycle time	0.1 to 99.9 sec			
Hysteresis width	0.1 to 99.9°			
Manual reset value	-19.9 to 19.9°			
Auxiliary supply specificatio	ns			
Supply voltage	90 to 270 VAC/ DC (AC : 50/ 60Hz)			
Power consumption	5 VA max @ 230 VAC			
Environment specifications				
Temperature	Operating: 0°C to 50°C (32 to 122°F); Storage: - 20°C to 75°C (- 4 to 167°F)			
Humidity (non - condensing)	95% RH			
Mechanical specifications				
Mounting	Panel			
Weight	TC203AX - 180 gms ; TC303AX - 240 gms			

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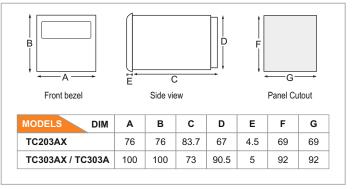
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Terminal connections



Dimensions (All are in mm)



Ordering information

Product code	Output		Supply voltage	Contitiontion
	Relay	SSR	Supply voltage	Certification
TC203AX	RELAY (10A)	SSR (12 VDC)	90 to 270 VAC/ DC	
TC303AX	RELAY (10A)	SSR (12 VDC)	90 to 270 VAC/ DC	
TC303A	RELAY (10A)	SSR (12 VDC)	90 to 270 VAC/ DC	

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