Temperature Controller

TC538BX



48 x 48mm

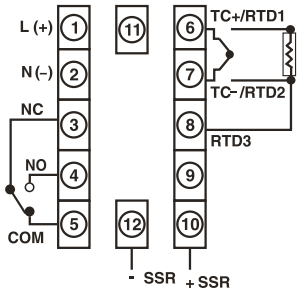
Features :

- Dual display, 4 digits, 7 segment LED
- LED status Indicator
- TC/ RTD inputs
- PID/ ON - OFF control
- Auto tunning/ Self tunning
- Single set point
- °C/°F Selectable
- Control output: Relay or SSR Drive

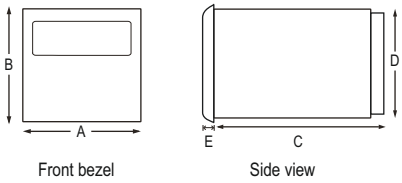
Technical specifications

Display specifications	
Display	4+4 Digits 7 Segment LED Dual Display
Height of display	Upper display: 10mm, Lower display: 7mm
LED indication	Relay ON, Tune
Input specifications	
Inputs	Thermocouple (J, K, T, R, S)/ RTD (PT100)
Resolution	1/ 0.1°
Indication accuracy	For J, K & T inputs: 0.25% of F.S. ±1°C For R & S inputs: 0.5% of F.S. ±2°C (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. ±1°C (F.S. = Full Scale)
Temperature unit	°C/°F selectable
Input filter (FTC)	0.2 to 10.0 sec
Sampling time	250 ms
Output specifications	
Relay contact (SPDT)	Main Output: NO: 10A 250 VAC/ 24 VDC NO/ NC: 5A/ 5A 250 VAC/ 24 VDC
SSR drive output (Voltage pulse)	12 VDC, 30 mA
Functional specifications	
Control action	1) Auto/ self tune PID control 2) ON - OFF control
Proportional band (P)	1.0 to 400.0°C
Integral time (I)	0.0 to 3600 sec
Derivative time (D)	0 to 200 sec
Cycle time	0.1 to 100.0 sec
Hysteresis width	0.1 to 99.9°
Manual reset value	- 99.9 to 99.9°C
Auxiliary supply specifications	
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	110 gms

Terminal connections



Dimensions (All are in mm)



MODELS / DIM	A	B	C	D	E	F	G
TC538BX	52	52	76	45	4	46	46

Ordering information

Product code	Output		Supply voltage	Certification
	Relay	SSR		
TC538BX	RELAY (10A)	SSR (12 VDC)	90 to 270 VAC/ DC	- - -