



48 x 48mm

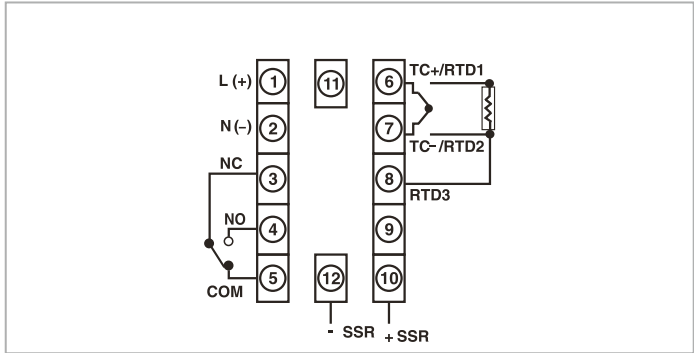
Features :

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

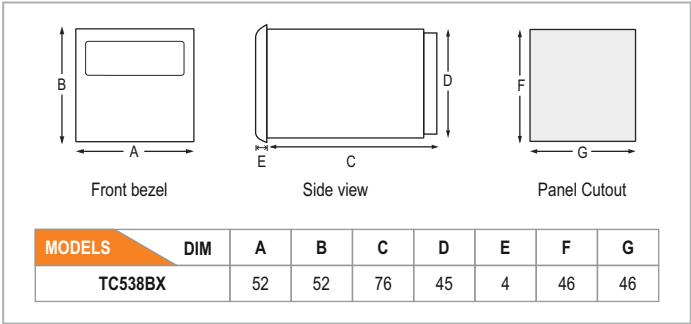
Technical specifications

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. $\pm 1^{\circ}\text{C}$ For R & S inputs: 0.5% of F.S. $\pm 2^{\circ}\text{C}$ (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. $\pm 1^{\circ}\text{C}$ (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)



Ordering information

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