



TEMPERATURE CONTROLLER

TC -19

APPLICATIONS

Packaging Machinery

Extrusion Machinery

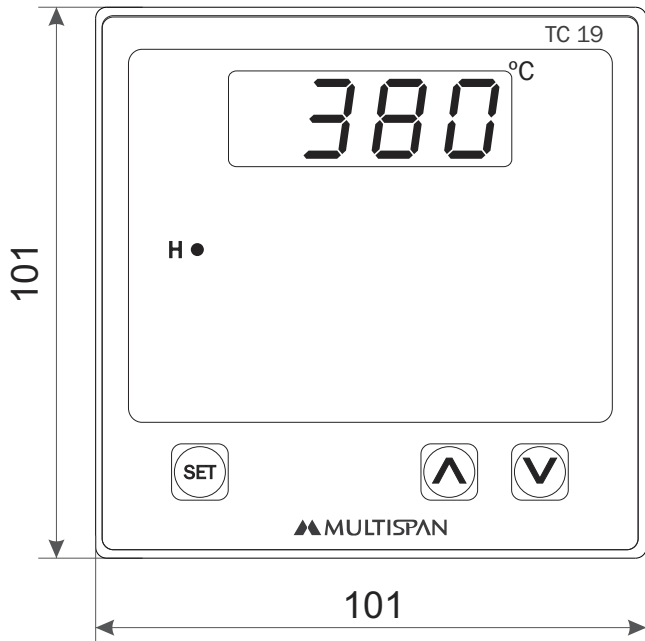
Furnace & Boilers

Ovens & Incubators

Food Industry

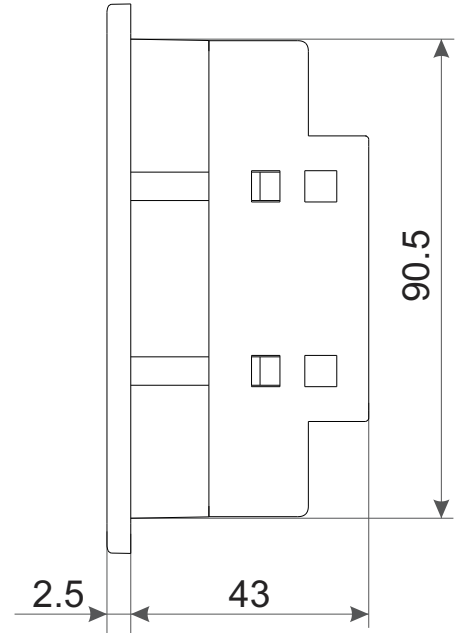
Mechanical Dimensions

Body Dimensions



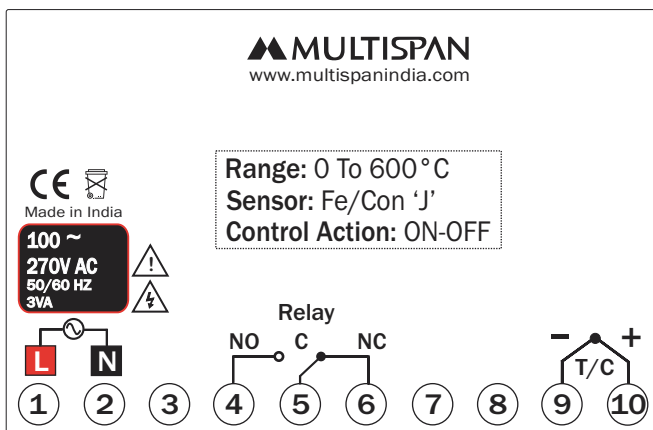
FRONT VIEW

All dimensions are in mm

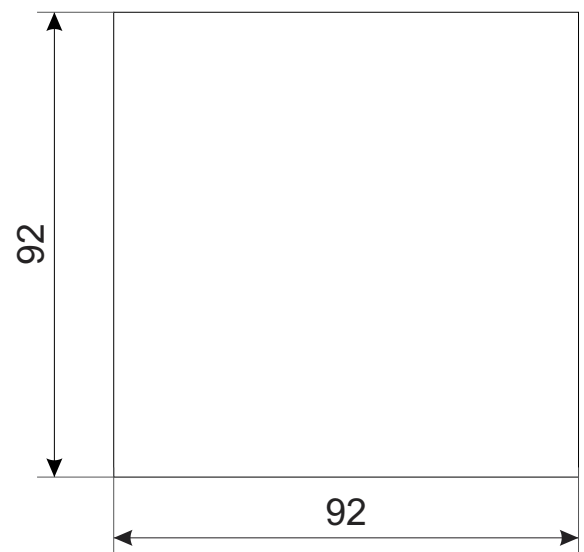


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	J/K or PT-100 2W/3W (Factory Set)
Range	J: 400 ° C, K: 1200 ° C, R: 1600 ° C PT-100 2 Wire or 3 Wire (0 ° C to 400 ° C, -50.0 ° C to 200.0 ° C)
Output	1 Relay 1 C/O, 5A, 230V AC (Resistive Load) or SSR (Factory Set)
Control Action	TP / ON-OFF (Factory Set)
Power Supply	100 to 270V AC, 50/60Hz

Input	
Input Type	Thermocouple : (J, K) PT-100 2 Wire or 3 Wire (Factory Set)
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 1 ° C RTD : 1 ° C
Sample Rate	6 Sample / Sec
CJC Error	± 2 ° C
Sensor Open	All Input
Sensor Burnout Current	1.10uA
RTD Excitation Current	0.2mA
CMRR	>120 db (Typical)
Input Impedance	>1M
Max Voltage	20V DC

Display LED & Keys	
Display	4 Digit 7 seg 0.56" Red LED Display
Key	SET, INC, DEC
LED Indication	Relay

Output	
Control Output	
Control Type	On-Off, TP
Relay Control Output	
Relay	1 Nos.
Rating	5A @230V AC / 28V DC Resistive Load
SSR Control Output	
Rating	12V DC @30mA

Auxiliary Power Supply	
Power Supply	100 to 270V AC, 50/60Hz
Burden	3VA

Table 1 (Sensor Range)	
J	0 to 400 ° C
K	0 to 1200 ° C
R	0 to 1600 ° C
PT-100 2 Wire or 3 Wire	0 ° C to 400 ° C, -50.0 to 200.0 ° C

Environmental Characteristics

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing
Protection	IP 65 (Front Side)

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	101 x 101 x 43
Panel Cutout (HxW) mm	92 x 92
Material	Polycarbonate (PC) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 240 Packed : 295
Accessories	1 Pair of Mounting Clamps