



TEMPERATURE CONTROLLER

TC -39H

APPLICATIONS

Packaging Machinery

Extrusion Machinery

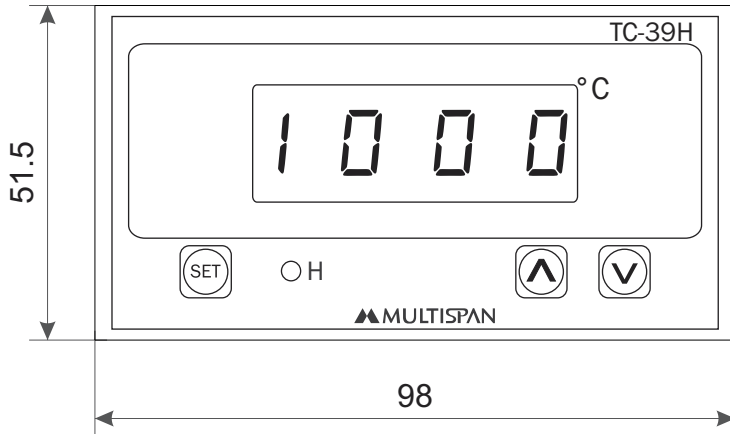
Furnace & Boilers

Ovens & Incubators

Food Industry

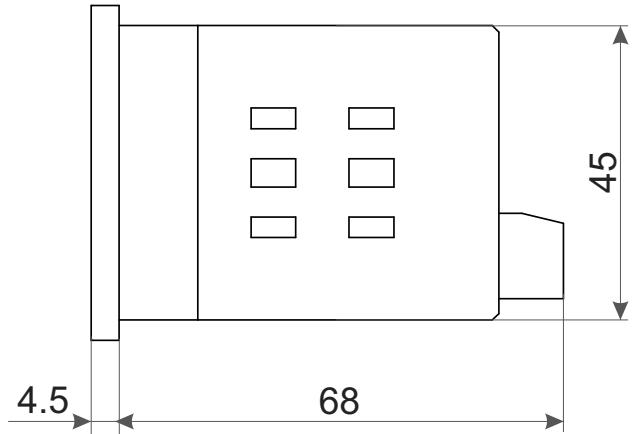
Mechanical Dimensions

Body Dimensions



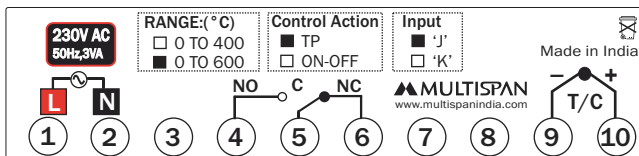
FRONT VIEW

All dimensions are in mm

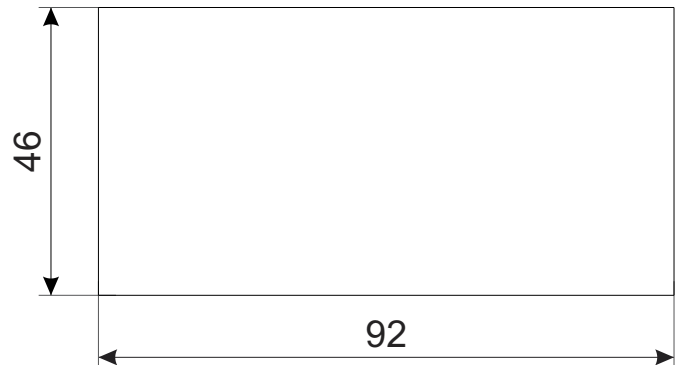


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	J or K or PT-100 2W/3W, PT.1 (Optional)
Range	J: 600° C, K: 1200° C PT-100 2 Wire or 3 Wire (0° C to 400° C, or PT.1 -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 or ON-OFF (Factory Set)
Power Supply	100 to 270V AC, 50/60Hz

Input	
Input Type	Thermocouple : (J or K) or PT-100 2 Wire or 3 Wire, PT.1 (Optional)
Input Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 1° C RTD : 1° C, PT.1 : 0.1° 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

Output	
Control Output	
Control Type	On-Off or TP
Relay Control Output	
Relay	1 Nos. (NO-C-NC)
Rating	5A @230V AC / 28V DC Resistive Load
or SSR Control Output	
Rating	12V DC @30mA

Auxiliary Power Supply	
Power Supply	230V AC
Burden	3VA

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

Table 1 (Sensor Range)	
J	0 to 600° C
K	0 to 1200° C
PT-100 2 Wire or 3 Wire PT.1	0° C to 400° C, -50.0 to 200.0° C

Environmental Characteristics

Operating Temperature	0 to 55 °C
Storage Temperature	0 to 70 °C
Humidity	95% RH Non-condensing
Ingress Protection	IP 65 (Front Side)

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	51.5 x 98 x 68
Panel Cutout (HxW) mm	46 x 92
Material	Front Enclosure Polycarbonate (PC) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 160 Packed : 200
Accessories	1 Pair of Mounting Clamps