



TEMPERATURE CONTROLLER

TC-29

APPLICATIONS

Packaging Machinery

Extrusion Machinery

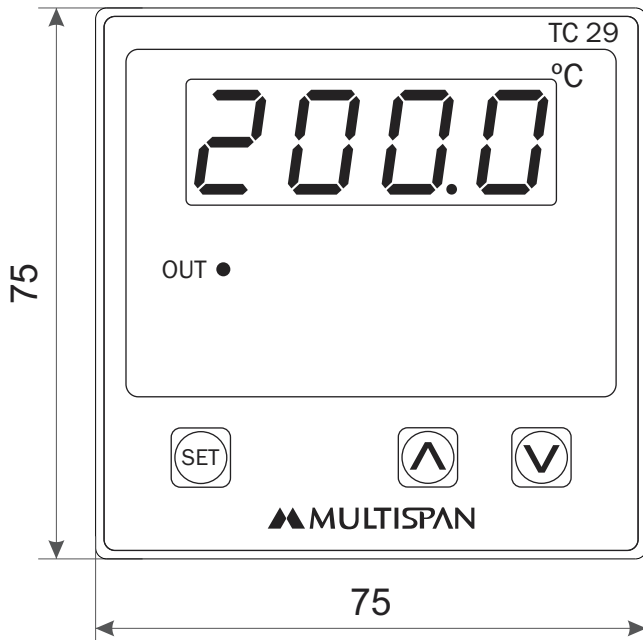
Furnaces & Boilers

Ovens & Incubators

Food Industry

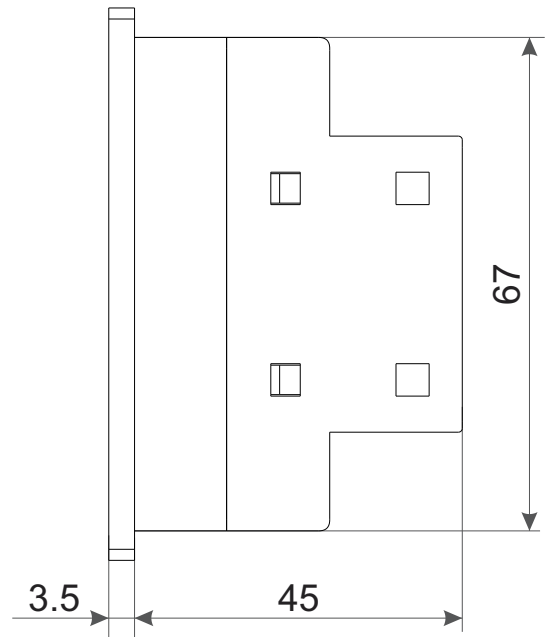
Mechanical Dimensions

Body Dimensions



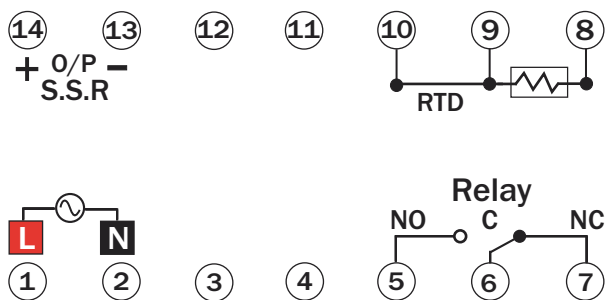
FRONT VIEW

All dimensions are in mm

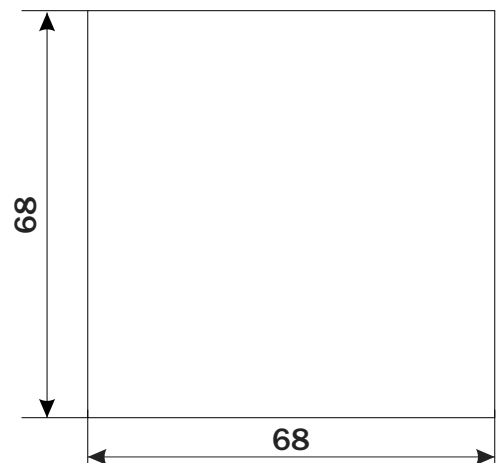


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	J / K or PT-100/ 2W/3W (Factory set)
Range	J: 0 to 600°C , K: 0 to 1200°C PT-100: 2 Wire or 3 Wire (0 to 400°C) , -50 to 200.0°C (Any one factory set)
Output	1 Relay 1 C/O, 5A, 230V AC (Resistive Load) & SSR Drive O/P 12V DC, 20mA (Parallel to Relay)
Control Action	TP / ON-OFF (Factory set)
Power Supply	100V - 270V AC, 50/60 Hz

Input	
Input Type	Thermocouple : (J, K, R, S) PT-100 2 Wire or 3 Wire (Factory set)
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bit
Display Resolution	Thermocouple : 1°C RTD : 1°C
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

Table 1 (Sensor Range)

J	0 to 600°C
K	0 to 1200°C
PT-100 2 Wire or 3 Wire	0 to 400°C , -50.0 to 200.0°C

Output	
Control Output	
Control Type	ON-OFF , TP (Factory set)
Relay Control Output	
Relay	1 Nos.
Rating	5A @230V AC / 28V DC Resistive Load
SSR Control Output	
Rating	12V DC @30mA

Power Supply	
Standard	100V - 270V AC, 50/60Hz
Consumption	4VA

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

Environmental Characteristics

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	75 x 75 x 45
Panel Cutout (HxW) mm	68 x 68
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 : 125 Packed : 155
Accessories	1 Pair of Mounting Clamps