



TEMPERATURE CONTROLLER

UTC-413P

APPLICATIONS

Packaging Machinery

Extrusion Machinery

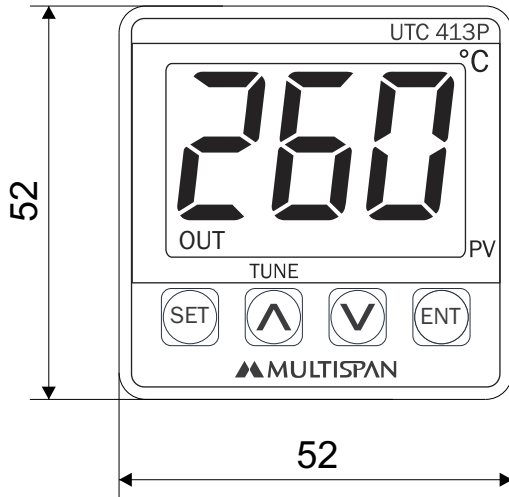
Furnaces & Boilers

Ovens & Incubators

Food Industry

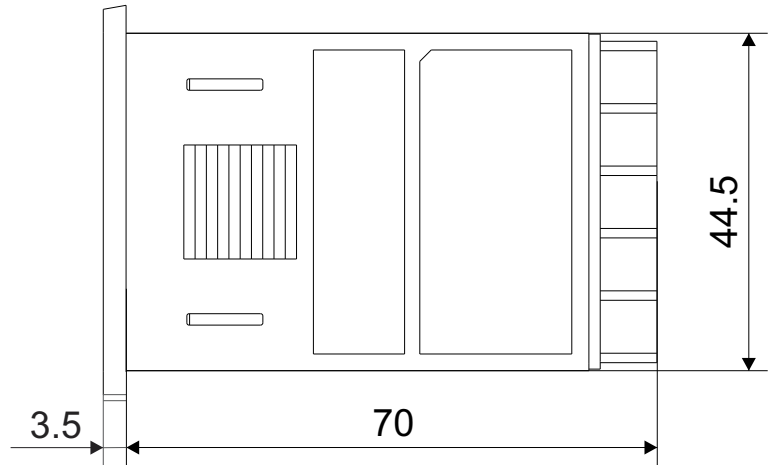
Mechanical Dimensions

Body Dimensions



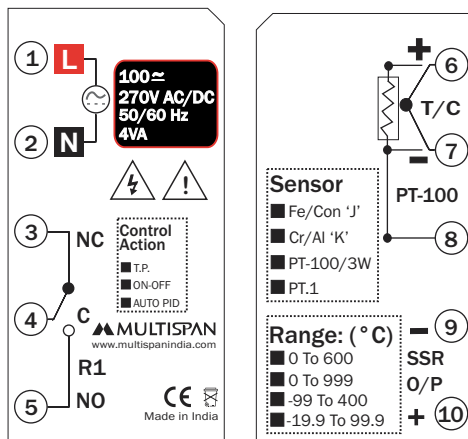
FRONT VIEW

All dimensions are in mm

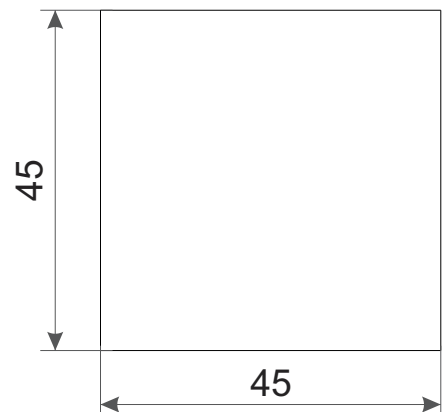


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input Current	J/K or PT-100 2W/3W (Factory Set)
Range	J: 600° C, K: 999° C PT-100 : -50° C to 400° C PT.1 : -19.9° C to 99.9° C
Output	1 Relay 1 C/O, 10A, 230V AC (Resistive Load) & SSR Drive O/P 12V DC, 20mA (Parallel to Relay)
Control Action	TP / ON-OFF / PID
Power Supply	100-270V AC, 50/60 HZ

Input

Input Type	Thermocouple : J/K RTD : PT - 100
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 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 (Table 1)

Process Value	Upper: 3 Digit 7 seg 0.63" Red / White LED Display
Set value	Lower: 3 Digit 7 seg 0.30" Green LED Display
Key	SET, INC, DEC, ENT

Output

Control Output	
Control Type	On-Off,Auto Tune PID
Proportional Band	0.0 to 99.9
Integral Time	0 to 9999
Derivative Time	0 to 9999
Cycle Time For SSR For Relay	1 sec to 99 sec 4 sec to 99 sec
Relay Control Output	
Relay	1 Nos.
Rating	5A @230V AC / 28V DC Resistive Load
SSR Control Output	
Rating	12V DC @30mA

Table 1 (Sensor Range)

J	0 to 600° C
k	0 to 999° C
PT-100	-50° C to 400° C
PT.1	-19.9° C to 99.9° C

Power Supply

Power Supply	100 to 270V AC, 50/60Hz
Optional	24V DC
Consumption	4VA

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	52 x 52 x 70
Panel Cutout (HxW) mm	45 x 45
Material	Body Polycarbonate (PC)
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 110 Packed : 140
Accessories	1 Mounting Clamp