



PROCESS CONTROLLER

PTC-352

APPLICATIONS

Pharmaceutical Industries

Extrusion Machinery

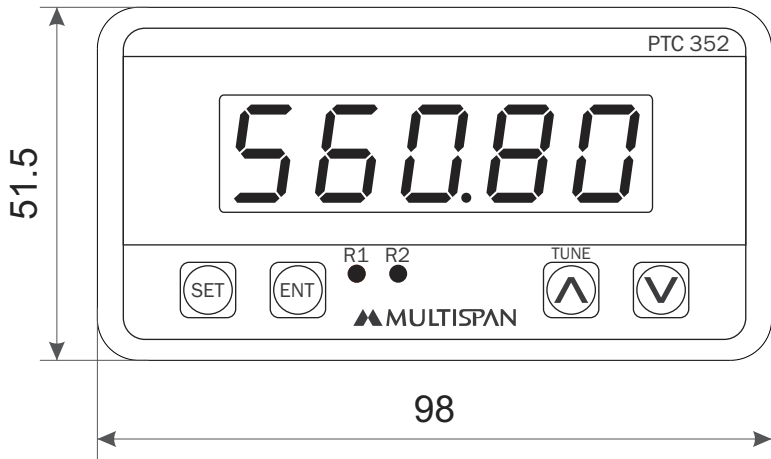
Furnace & Boilers

Ovens & Incubators

Process Industry

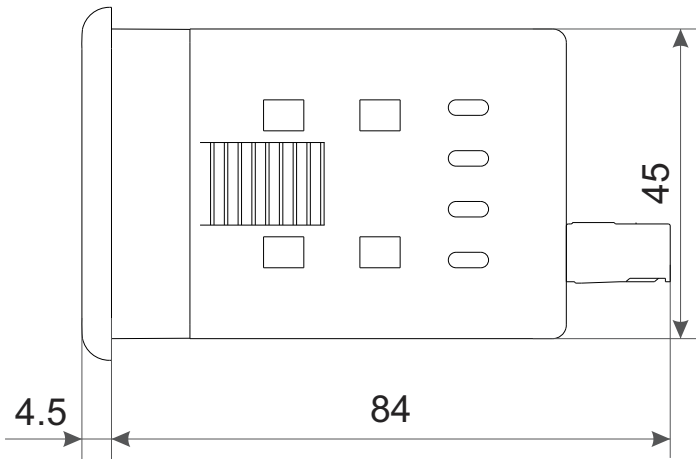
Mechanical Dimensions

Body Dimensions



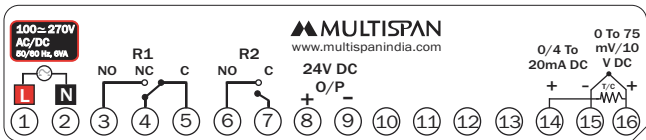
FRONT VIEW

All dimensions are in mm

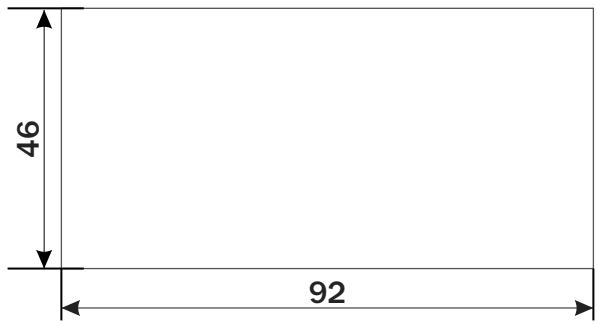


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	Thermocouple	J / K / E / B / R / S / T / N / C / L / U (Configurable)
	RTD	PT-100/ 2 or 3Wire (Configurable)
	Analog	Voltage : 0-10V DC/0-5V DC/1-5V DC (Programable Scale)
		Current : 0-20mA DC ,4-20mA DC (Programable Scale)
		Mili Voltage : -10 - 75mV (Programable Scale)
Output	Output 1	Relay 1 C/O, 5A@230V AC For Resistive Load
	Output 2	Relay 1 C/O, 5A@230V AC For Resistive Load
	Output 3	24V DC Transmitter supply (25mA)
Control Action		PID / ON-OFF (Configurable)
Power Supply		100-270V AC/DC, 50/60 Hz, Approx 6VA

Input Table

Input Type	Range	Accuracy	± 0.25% of FSD
J	-200 to 1000 °C	ADC Resolution	16 Bit
J.1	-200.0 to 1000.0 °C	Display Resolution	Thermocouple J, K, S, R, B, E, T, N, C, L, U : 1 °C K.1, J.1 : 0.1 °C RTD : PT: 1 °C /PT.1: 0.1 °C Analog Input 0.1 / 0.01 / 0.001 / 0.0001
K	-200 to 1500 °C		
K.1	-200.0 to 1500.0 °C		
PT-100	-200 to 600 °C		
PT.1	-200.0 to 600.0 °C	Sample Time	700 msec
R	-100 to 2000 °C	Sample Rate For Analog I/P	0.1 Sec To 10 Sec (Configurable)
S	-100 to 2000 °C	CJC Error	± 2 °C
E	-200 to 950 °C	Sensor Open	Thermocouple:- All Sensor RTD:- PT Analog: 4 to 20mA, -10 to 75mV DC
N	-200 to 1350 °C		
T	-200 to 500 °C	Sensor Burnout Current	1.10uA
B	100 to 1850 °C	RTD Excitation Current	0.2mA
C	0 to 2300 °C	CMRR	>120 dB (Typical)
L	-200 to 1000 °C	Max Voltage	20V DC
U	-200 to 1000 °C		
0 - 10V DC	-19999 to 99999		
-10 - 75mV DC	-19999 to 99999		
0 - 20mA DC	-19999 to 99999		
0 - 4-20mA DC	-19999 to 99999		

Display & Keys

Display	5 Digit 7 seg 0.56" RED
LED Status	Relay Indication LED
4 controlling keys for configuration and operation SET, ENT, UP, DOWN	

Power Supply

Standard	100 - 270V AC/DC, 50/60Hz
Optional	24V DC
Consumption	6VA

Output

Control Output

Control Type	Auto tune PID, ON-OFF (Select.)
Proportional Band	0000 to 999.9
Integral Time	0000 to 9999
Derivative Time	0000 to 9999
Cycle Time For SSR and Relay	4 sec to 99 sec

Relay Control Output

Relay	1R	NO - C - NC
	2R	NO - C
Rating	Relay 1: 5A @230V AC/ 28V DC Resistive Load Relay 2: 5A @230V AC/ 28V DC Resistive Load	
Transmitter Supply	24V DC	

Environmental Characteristics

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing
Warm up time	5 minutes
Ingress Protection	IP 65 (Front Side)

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	51.5 x 98 x 84
Panel Cutout (HxW) mm	46 x 92
Material	Body Enclosure
	Polycarbonate (PC) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	28-12
Weight (Approx) gms	Unpacked : 210 Packed : 240
Accessories	1 Pair of Clamps