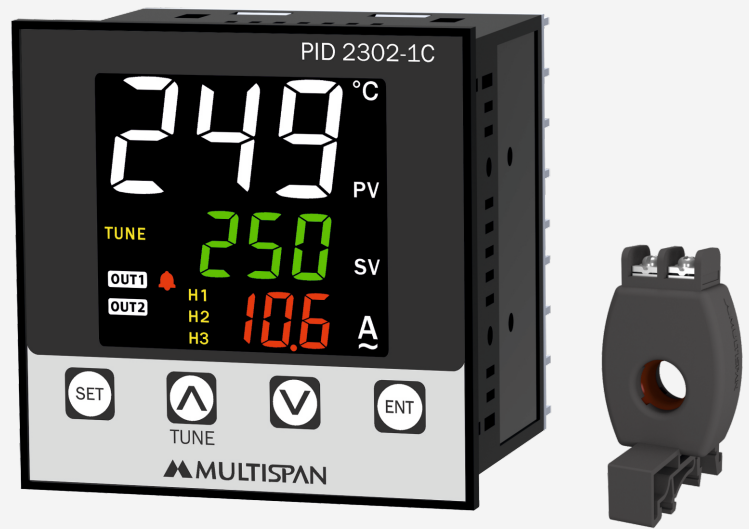




PID CONTROLLER WITH AMPERE INDICATION

PID-2302-1C

APPLICATIONS

Packaging Machinery

Extrusion Machinery

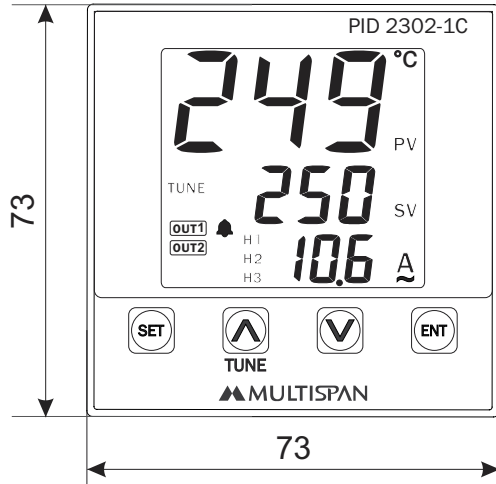
Furnace & Boilers

Ovens & Incubators

Food Industry

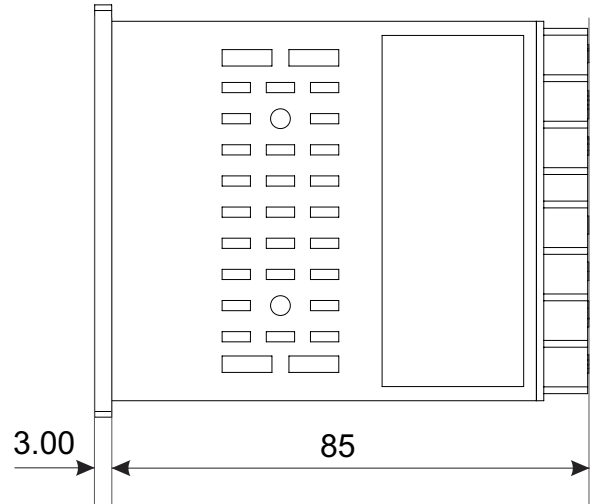
Mechanical Dimensions

Body Dimensions



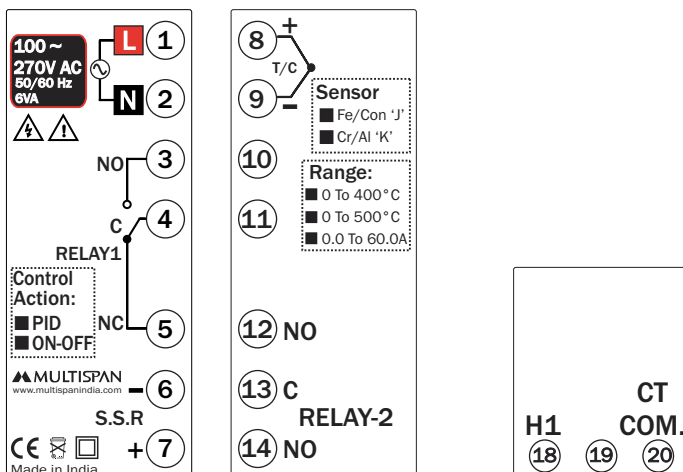
FRONT VIEW

All dimensions are in mm

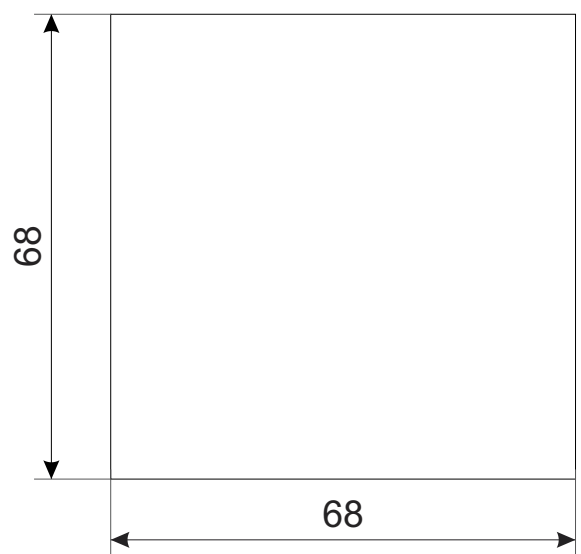


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input Current	Thermocouple:- J/ K (Configurable) Ampere:- 1CT
Range	Thermocouple:- J: 0 to 400° C, K: 0 to 500° C Ampere :- 0.0 to 30.0A / 0.0 to 60.0A,1CT (Configurable)
Output	2 Relay,1C/O 10A@230V AC For Resistive Load, & SSR 12V DC,30mA Parallel
Control Action	PID / ON-OFF (Configurable)
Mode	Relay 1:- PID / ON-OFF Relay 2:- ON-OFF / BLOWER TP All Alarm
Power Supply	100-270V AC (SMPS), 50/60 Hz

Input	
Input Type	Thermocouple : J/K
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	12 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
CT Input	CT Module 1 CT-30/60 Amp (Factory Set)

Output	
Control Output	
Control Type	PID / ON-OFF , Blower TP, All Alarm
Proportional Band	0.0 to 999.9
Integral Time	0 to 9999
Derivative Time	0 to 9999
Cycle Time For SSR	1 sec to 99 sec
Cycle Time For Relay	4 sec to 99 sec
Relay Control Output	
Relay	2 Nos.
Rating	R1 : 10A @230V AC/28V (NO-C-NC) DC Resistive Load R2 : 10A @230V AC/28V (NO-C) DC Resistive Load
SSR Control Output	
Rating	24V DC @30mA

Power Supply	
Power Supply	100 to 270V AC, 50/60Hz
Optional	24V DC
Consumption	6VA

Keys
4 controlling keys for configuration and operation SET, INC, DEC, ENT

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)

Display LED & Keys

Process Value	UPPER:- 3 Digit 7 seg 0.70",White LED Display
Set Value	MIDDLE:- 3 Digit 7 seg 0.39",GREEN LED Display
Ampere	LOWER:- 3 Digit 7 seg 0.33",RED LED Display
LED Indication	Relay OR SSR and Ampere

Table 1 (sensor Range)

J	0 to 400 °C
K	0 to 500 °C
Ampere	0.0 to 30.0 A/ 0.0 to 60.0A

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	73 x 73 x 85
Panel Cutout (HxW) mm	68 x 68
Material	Body Polycarbonate (PC)
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 260 Packed : 315
Accessories	1 Pair of Mounting Clamps

Current Transformer (CT)

Mounting Type	DIN Rail Mount
Dimension (HxWxD)mm	43.5 x 29.5 x 45.5
Material	Body Polyamide (PA)
Inner Diameter (mm)	6.3
Screw Torque (N.m)	0.5
CT Input	Primary :- 30A CT Secondary :- 12mA