

PID CONTROLLER WITH AMPERE INDICATION PID-2303C (1CT)



TECH SPECS

Model	PID-2303C
Dimension (HxWxD) mm	72 x 72 x 85
Panel Cutout (mm)	68 x 68
Input	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
Output	3 Relay,1C/O 5A@230V AC For Resistive Load, & SSR 12V DC,30mA Parallel
Control Action	PID / ON-OFF (Configurable)
Mode	Relay 1:- Heating Relay 2:- Cooling Relay 3:- Alarm
Power Supply	100-250V AC (SMPS), 50/60 Hz

APPLICATIONS

Packaging Machinery

Extrusion Machinery

Furnace & Boilers

Ovens & Incubators

Food Industry

Technical Specifications

Input	
Input Type	Thermocouple : J, K Ampere : 1CT
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 1°C Ampere: 0.1A
Sampling Time	600mSec
CJC Error	± 2°C
Sensor Open	All Input
Sensor Burnout Current	1.10 uA
RTD Excitation Current	0.2mA
CMRR	>120 db (Typical)
Input Impedance	>1M
Max Voltage	20V DC
CT Input	CT Module 1 CT-30/60Amp (Factory Set)

Output	
Control Output	
Control Type	ON-OFF, Auto tune PID
Proportional Band	0000 to 999.9
Integral Time	0000 to 9999
Derivative Time	0000 to 9999
Cycl Time -For SSR -For Relay	4 sec to 99 sec
Relay Control Output	
Relay	3 Nos.
Rating	Relay1 : 5A @230V AC/28V DC Resistive Load Relay2 : 5A @230V AC/28V DC Resistive Load Relay3 : 5A @230V AC/28V DC Resistive Load
SSR Control Output	
Rating	12V DC @30mA

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

Power Supply

Standard	100 - 250V AC @ 50/60 Hz
Optional	24V DC
Consumption	4VA

Display

Process Value	UPPER:- 4 Digit 7 seg 0.56",White LED Display
Set Value	MIDDLE:- 4 Digit 7 seg 0.31",GREEN LED Display
Ampere	LOWER:- 3 Digit 7 seg 0.39",RED LED Display
LED Indication	Relay OR SSR and Ampere

Environmental

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

Keys

4 controlling keys for configuration and operation
SET, UP, DOWN, ENT

Physical

PID-2303C

Enclosure	Molded ABS
Weight	250gm
Color	Black
Front Bezel (mm)	72 x 72
Panel cutout (mm)	68 x 68
Depth behind panel	85 mm
Accessories	1 pair of Mounting clamp
Terminal Cable Size	Barrier Type terminal Cable Size (2.5 mm ²)
Current Transformer (CT)	
Dimension (HxWxD) mm	43.5 x 29.5 x 45.5
Mounting	Rail Mounting
Inner Diameter (mm)	6.3
Screw Torque	0.4Nm
CT Input	Primary :- 30A CT Secondary :- 12mA