



PID CONTROLLER

PID-2303C, 4203C (3CT)

TECH SPECS

Model	PID-2303C (3CT)	PID-4203C
Dimension (HxWxD) mm	72 x 72 x 85	48 x 48 x 70
Panel Cutout (mm)	68 x 68	44 x 44
Input	Thermocouple:- J/ K (Configurable) Ampere:- 3CT	
Range	Thermocouple:- J: 0 to 400° C, K: 0 to 500° C Ampere :- 0.0 to 30.0A / 0.0 to 60.0A, 3CT	
Output	3 Relay, 5A@230V AC For resistive Load, & SSR 12V DC,30mA Parallel (3 Setpoint)	
Control Action	PID / ON-OFF (Configurable)	
Mode	Relay 1:- Heating Relay 2:- Cooling Relay 3:- Alarm	
Power Supply	100-250V AC, 50/60 Hz	

APPLICATIONS

Packaging Machinery

Extrusion Machinery

Furnace & Boilers

Ovens & Incubators

Food Industry

Technical Specifications

Input	
Input Type	Thermocouple : J, K Ampere : 3CT
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	1.10uA
RTD Excitation Current	0.2mA
CMRR	>120 db (Typical)
Input Impedance	>1M
Max Voltage	20V DC
CT Input	CT Module (3 CT-30/60Amp Each)

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	Relay 1:5A @230V AC / 28V DC Resistive Load Relay 2:5A @230V AC / 28V DC Resistive Load Relay 3:5A @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 30.0A/0.0 to 60.0A

Power Supply

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

Display

Process Value	PID-2303C (3CT)
	UPPER:- 4 Digit 7 seg 0.56",WHITE LED Display
Set Value	MIDDLE:- 4 Digit 7 seg 0.31",GREEN LED Display
	LOWER:- 3 Digit 7 seg 0.39",RED LED Display
Ampere	PID-4203C (3CT)
	UPPER:- 4 Digit 7 seg 0.39",RED LED Display
Ampere	LOWER:- 3 Digit 7 seg 0.28",GREEN LED Display
	LED Indication

Physical

	PID-2303C	PID-4203C
Enclosure	Molded ABS	
Weight	320gm	250gm
Color	Black	
Front Bezel (mm)	72 x 72	48 x 48
Panel cutout (mm)	68 x 68	45 x 45
Depth behind panel	85 mm	70 mm
Accessories	1 pair of Mounting clamp	
Terminal Cable Size	Barrier Type terminal Cable Size (2.5 mm ²)	

Keys

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

Environmental

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