

PID CONTROLLER WITH AMPERE INDICATION PID-4201C(1CT)



TECH SPECS

Model	PID-4201C
Dimension (HxWxD) mm	48 x 48 x 70
Panel Cutout (mm)	45 x 45
Input	Thermocouple:- J/ K, RTD:- PT-100 3Wire (Configurable),1CT
Range	Thermocouple:- J: 0 to 600° C, K: 0 to 1200° C RTD :- PT-100: -99 to 400°C, PT.1: -99.9 to 400.0°C Ampere :- 0.0 to 30.0A / 0.0 to 60.0A, 1CT
Output	1 Relay, 5A@230V AC For Resistive Load, & SSR 12V DC,30mA Parallel (1 Set point)
Control Action	PID / ON-OFF (Configurable)
Mode	Heating / Cooling (Configurable)
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 RTD : PT-100 , 1CT
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 1°C RTD : For PT 1° C For PT.1: 1°C / 0.1°C For Ampere: 0.1A
Sample Rate	6 Sample / Sec
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 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	4 sec to 99 sec
-For SSR -For Relay	
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

Display	
Process Value	UPPER:- 4 Digit 7 seg 0.56",RED LED Display
Ampere	LOWER:- 3 Digit 7 seg 0.28",GREEN LED Display
LED Indication	Relay / 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	

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

Table 1 (Sensor Range)			
J	0 to 600° C	PT-100	-99 to 400° C
K	0 to 1200° C	PT.1	-99.0 to 400.0° C
Ampere	0.0 to 30.0 A/0.0 to 60.0A		

Physical

PID-4201C

Enclosure	Molded ABS
Weight	180gm
Color	Black
Front Bezel (mm)	48 x 48
Panel cutout (mm)	45 x 45
Depth behind panel	70 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