

PID TEMPERATURE CONTROLLER PID-2303-3C



TECH SPECS

| | |
|----------------------|--|
| Model | PID-2303-3C |
| Dimension (HxWxD) mm | 72 x 72 x 85 |
| Panel Cutout (mm) | 68 x 68 |
| 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,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 |
| Certification | |

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 | 1.10 uA |
| CMRR | >120 db (Typical) |
| Input Impedance | >1M |
| Max Voltage | 20V DC |
| CT Input | CT Module 3 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 |
| Cycle Time | 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 | Relay 1 parallel to SSR |
| 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 | 6VA |

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 O/P & 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

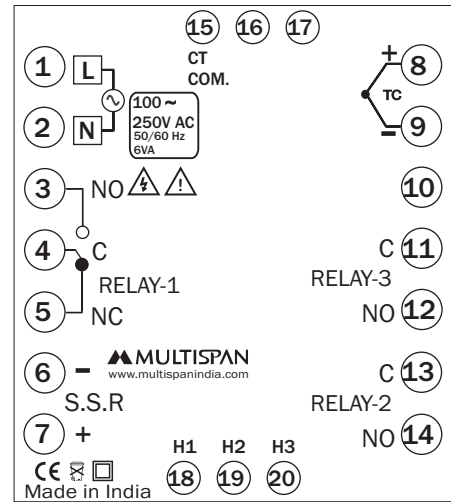
4 controlling keys for configuration and operation
SET, UP, DOWN, ENT

Physical

PID-2303-3C

| | |
|---------------------------------|--|
| 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 |

Terminal Connection



Calculated Parameters

| Outline Dimension (mm) | Panel Cutout Dimension (mm) |
|------------------------|-----------------------------|
| | |

Multispan reserves the right to change specifications without prior notice. Printing and typographical errors reserved.
Product improvement and upgrade is a constant procedure. So for more updated operating information & support contact us.

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