

# TEMPERATURE CONTROLLER TC-29P



## TECH SPECS

<b>Model</b>	TC-29P
<b>Dimension (HxWxD) mm</b>	72 x 72 x 45
<b>Panel Cutout</b>	68 x 68
<b>Input</b>	J/K or PT-100 2W/3W (Factory Set)
<b>Range</b>	J: 400° C, K: 1200° C PT-100 2 Wire or 3 Wire (0° C to 400° C, -50.0° C to 200.0° C) (Any one factory set)
<b>Output</b>	1 Relay 1 C/O, 5A, 230V AC (Resistive Load) or SSR (Factory Set)
<b>Control Action</b>	PID / TP/ ON-OFF ( Factory Set )
<b>Power Supply</b>	100 to 270V AC,50/60Hz

## APPLICATIONS

Packaging Machinery

Extrusion Machinery

Furnace & Boilers

Ovens & Incubators

Food Industry

# Technical Specifications

Input	
Input Type	Thermocouple : ( J, K ) PT-100 2 Wire or 3 Wire (Factory Set)
Display Range	Refer ( Table 1 )
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 1 °C RTD : 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

Output	
Control Output	
Control Type	PID/TP/ON-OFF
Relay Control Output	
Relay	1 Nos.
Rating	10A @230V AC / 28V DC Resistive Load
SSR Control Output	
Rating	12V DC @30mA

Display	
Process Value	4 Digit 7 seg 0.56", RED LED Display
Keys	SET, INC, DEC
LED Indication	Relay

Environmental	
Operating Temperature	0 to 55 °C
Storage Temperature	0 to 70 °C
Humidity	95% RH Non-condensing
Protection	IP 54 ( Front Side )

Physical	
	TC-29P
Enclosure	Molded ABS
Color	Black
Front Bezel ( mm )	72 x 72
Panel cutout ( mm )	68 x 68
Depth behind panel	45 mm
Accessories	1 pair of Mounting clamp
Terminal Cable Size	Barrier Type terminal Cable Size ( 2.5 mm <sup>2</sup> )

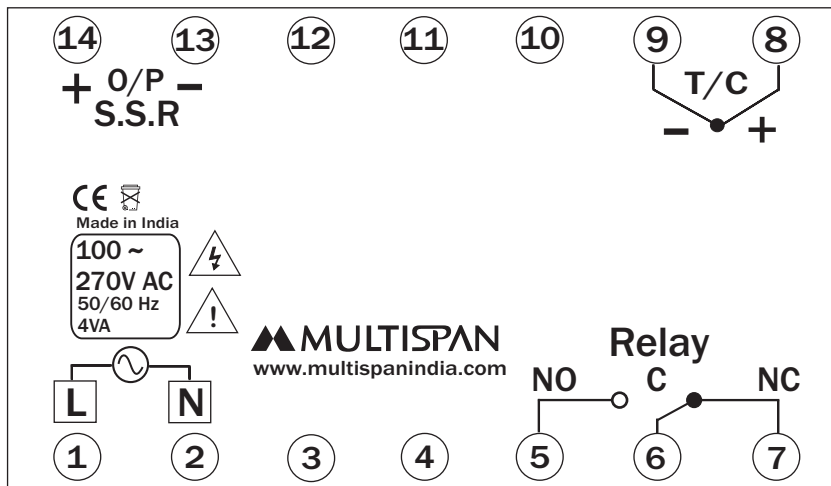
Table 1 ( Sensor Range )	
J	0 to 400 °C
K	0 to 1200 °C
PT-100 2 Wire or 3 Wire	0 to 400 °C, -50.0 to 200.0 °C

Power Supply	
Standard	100 to 270V AC, 50/60Hz
Consumption	4VA

## Mechanical Dimension

Outline Dimension (mm)	Panel Cutout Dimension (mm)

## Connection Diagram



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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