

TEMPERATURE CONTROLLER TC-221P



TECH SPECS

Model	TC-221P
Dimension (HxWxD) mm	72 x 72 x 45
Panel Cutout	68 x 68
Input	J
Range	J: 0 to 400° C
Output	1 Relay 1 C/O, 5A, 230V AC & SSR 12V DC Parallel (1 Set point)
Control Action	PID / ON-OFF (Configurable)
Mode	Heating / Cooling (Configurable)
Power Supply	100-270V AC, 50/60 HZ

APPLICATIONS

Packaging Machinery

Extrusion Machinery

Furnace & Boilers

Ovens & Incubators

Food Industry

Technical Specifications

Input	
Input Type	Thermocouple : J
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 1 °C
Sample Rate	6 Sample / Sec
CJC Error	± 2 °C
Sensor Open	J Type 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	On-Off, Auto tune PID
Proportional Band	0.0 to 999
Integral Time	0 to 999
Derivative Time	0 to 999
Cycle Time For SSR	1 sec to 99 sec
Cycle Time For Relay	4 sec to 99 sec
Relay Control Output	
Relay	1 Nos.
Rating	5A @230V AC / 28V DC Resistive Load
SSR Control Output	
Rating	12V DC @30mA

Physical	
	TC-221P
Enclosure	Molded ABS
Weight	180gm
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 ²)

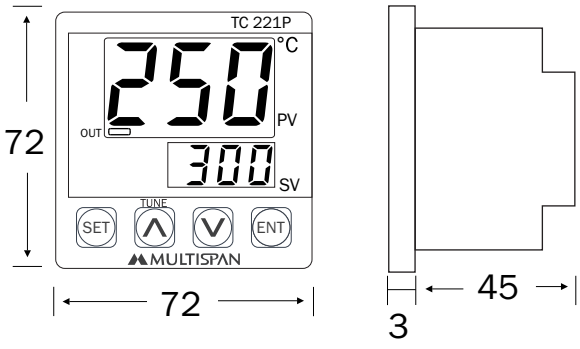
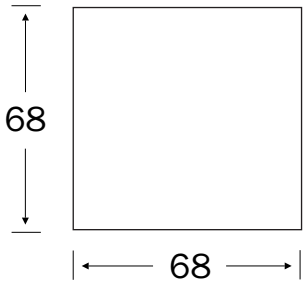
Environmental	
Operating Temperature	0 to 55 °C
Storage Temperature	0 to 70 °C
Humidity	95% RH Non-condensing
Protection	IP 54 (Front Side)

Power Supply	
Standard	100 - 270V AC @ 50/60 Hz
Optional	24V DC
Consumption	4VA

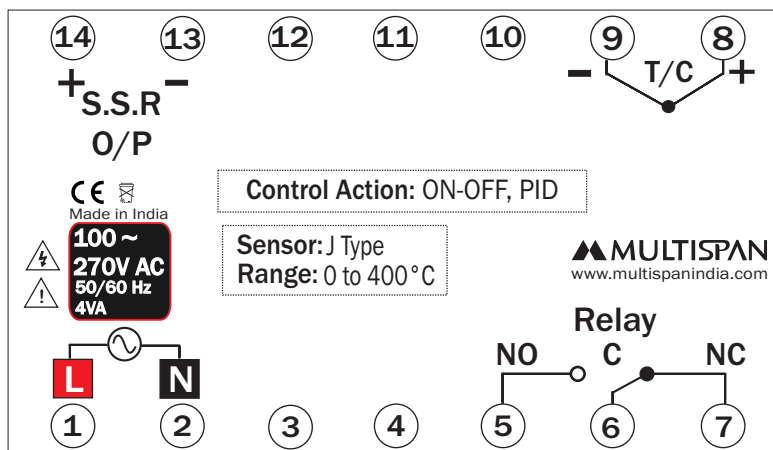
Display (Table 1)	
Process Value	UPPER: 3 Digit 7 seg 0.80", RED LED Display
Set Value	LOWER: 3 Digit 7 seg 0.40", GREEN LED Display
Keys	SET, UP, DOWN, ENT
LED Indication	Relay , SSR

Table 1 (Sensor Range)	
J	0 to 400 °C

Mechanical Dimension

Outline Dimension (mm)	Panel Cutout Dimension (mm)
	

Terminal 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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