



# TEMPERATURE CONTROLLER

UTC- 121G, 221G, 421G

## TECH SPECS

Model	UTC-121G	UTC-221G	UTC-421G
Dimension (HxWxD) mm	96 x 96 x 50	72 x 72 x 85	48 x 48 x 95
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45
Input	Thermocouple :- J/K/R/S (Configurable) RTD :- PT-100 3Wire (Configurable)		
Range	Thermocouple :- J: 0 to 600°C, J.1: 0.0 to 400.0°C, K: 0 to 1200°C,K.1: 0.0 to 500.0°C,R: 0 to 1750°C, S: 0 to 1750°C, RTD :- PT-100: -50 to 400°C, PT.1: -50.0 to 400.0°C		
Output	1 Relay 1 C/O, 5A, 230V AC For Resistive Load, & SSR 12V DC Parallel ( 1 Set point )		
Control Action	PID / TP / ON-OFF ( Configurable )		
Operating 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, R, S RTD : PT-100
Display Range	Refer ( Table 1 )
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	Thermocouple : 0.1 °C RTD :- For PT: 1 °C / For PT.1: 0.1 °C
Sampling Time	600 msec
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	ON-OFF, Auto tune PID, TP
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	1 Nos.
Rating	5A @230V AC / 28V DC Resistive Load
SSR Control Output	
Rating	12V DC @30mA

**Table 1 ( Sensor Range )**

J	0 to 600 °C
J.1	0.0 to 400.0 °C
K	0 to 1200 °C
K.1	0.0 to 500.0 °C
R	0 to 1750 °C
S	0 to 1750 °C
PT-100	-50 to 400 °C
PT.1	-50.0 to 400.0 °C

## Power Supply

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

## Display

	UTC-121G , 221G	UTC-421G
Process Value	UPPER:- 4 Digit 7 seg 0.56",RED LED Display	UPPER:- 4 Digit 7 seg 0.59",WHITE LED Display
Set Value	LOWER:- 4 Digit 7 seg 0.4",GREEN LED Display	LOWER:- 4 Digit 7 seg 0.35",GREEN LED Display
LED Indication	Relay OR SSR	

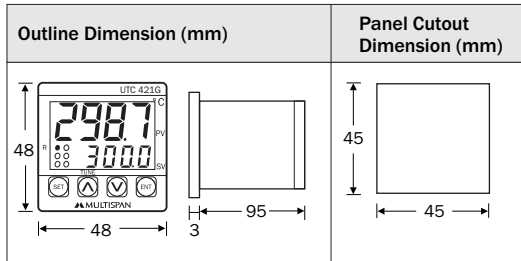
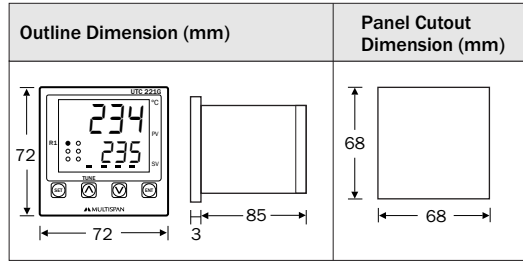
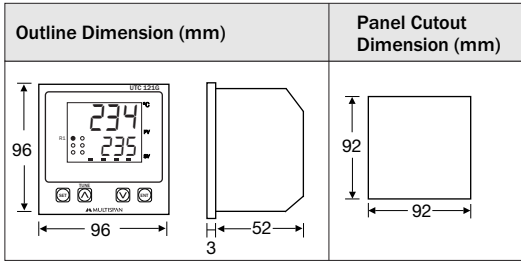
## Keys

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

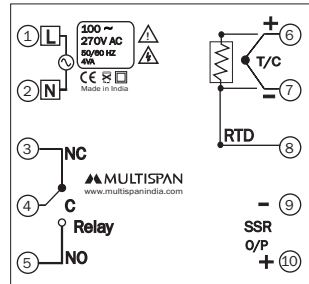
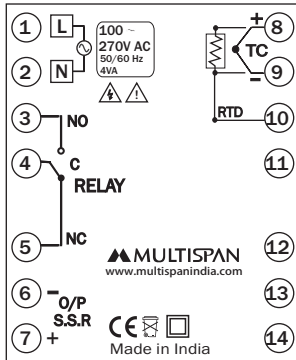
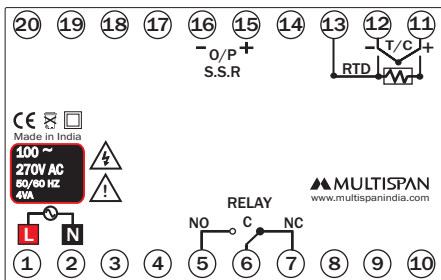
Environmental	
Operating Temperature	0 to 55 °C
Storage Temperature	0 to 70 °C
Humidity	95% RH Non-condensing
Protection	IP 65 ( Front Side )

Physical			
	UTC-121G	UTC-221G	UTC-421G
Mount	Panel		
Enclosure	Molded ABS		
Weight	210gm	240gm	150gm
Color	Black		
Front Bezel ( mm )	96 x 96	72 x 72	48 x 48
Panel cutout ( mm )	92 x 92	68 x 68	45 x 45
Depth behind panel	50 mm	85 mm	95 mm
Accessories	1 pair of Mounting clamp		
Terminal Cable Size	Barrier Type terminal Cable Size ( 2.5 mm <sup>2</sup> )		

### Mechanical Dimension



### 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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