

TEMPERATURE CONTROLLER

UTC-4201A



TECH SPECS

Model	UTC-4201A
Dimension (HxWxD) mm	48 x 48 x 95
Input	Thermocouple:- J / K (Configurable) RTD :- PT-100 3Wire /2Wire
Range	Thermocouple:- J: 0 - 600 °C, K: 0 to 1200 °C RTD :- PT-100: -99 to 400 °C/ PT.1: -99.9 to 400.0 °C
Output	1 Relay 1 C/O (NO-C-NC), 5A@230V AC/30V DC For Resistive Load Analog O/P 0 to 10V DC / 4 to 20mA DC Controlling O/P (Factory Set)
Control Action	PID / ON-OFF (Configurable)
Power Supply	100-270V AC, 50/60 HZ, Approx 4VA
Certification	

APPLICATIONS

Pharmaceutical Industries

Extrusion Machinery

Furnace & Boilers

Ovens & Incubators

Process Industry

Technical Specifications

Input	
Input Type	Thermocouple : J, K RTD : PT-100, PT.1
Display Range	Refer (Table 1)
Accuracy	± 1% of FSD
ADC Resolution	10 Bits
Display Resolution	J/K,PT-100 = 1 °C PT.1 = 0.1 °C
Sample Time	600 msec

Output	
Relay Control Output	
Relay	1C/0 (NO - C-NC)
Rating	5A @230V AC/28V DC Resistive Load
Analog Output (Any One Factory Set)	
Current	4-20mA
Voltage	0-10V

Table 1 (Input Range)	
J	0 to 600 °C
K	0 to 1200 °C
PT-100	-99 to 400 °C
PT.1	-99.9 to 400.0 °C

Display	
Display	Upper :- 4 Digit 7 seg 0.56" Red LED Display LOWER :- 4 Digit 7 seg 0.33" Green LED Display
LED Status	Relay Indication LED

Control Method	
Heating	1) PID Control with Auto-Tuning 2) ON-OFF Control
Cooling	1) BL.TP (Blower Time Proportional) 2) ON-OFF Control
Alarm	Inband, Absolute Outband, High, Absolute Low

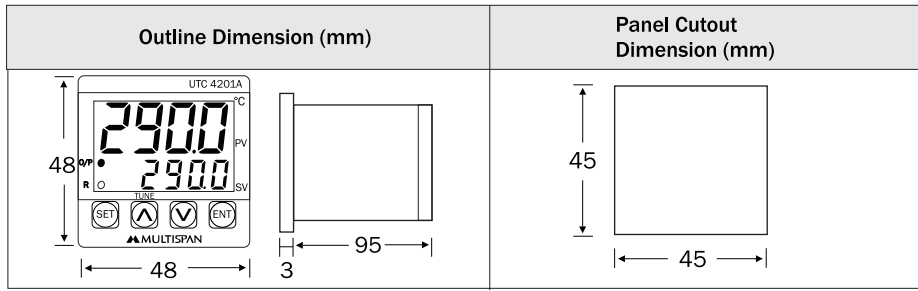
Keys
4 controlling keys for configuration and operation SET, UP, DOWN, ENT

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

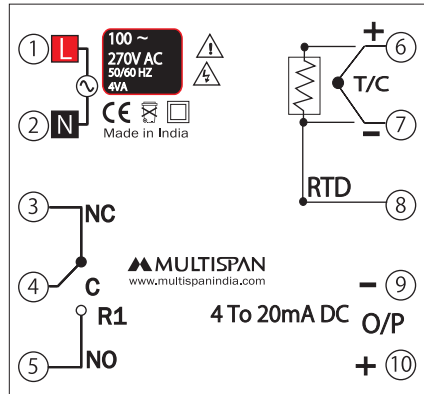
Physical	
Mounting Type	Panel Mount
Enclosure	Molded ABS
Weight (gm)	170
Color	Black
Front Bezel (mm)	48 x 48
Panel cutout (mm)	45 x 45
Depth behind panel (mm)	95
Accessories	1 pair of Mounting clamp
Terminal Cable Size	Barrier Type terminal Cable Size (2.5 mm ²)

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

MECHANICAL INSTALLATION



Connection Diagram



COMPLIANCE

Applicable EM/ EMC Standards	
EMC & Safety	
IEC 61000-4-20 : 2010 IEC 61326-1 : 2005	Radiated Electromagnetic Field Disturbance Test
IEC 61000-4-6 : 2013 IEC 61326-1 : 2005	RF Susceptibility Test
IEC 61000-4-2 : 2008 IEC 61326-1 : 2005	Electrostatic Discharge (ESD) Test
IEC 61000-4-4 : 2012 IEC 61326-1 : 2005	Electrical Fast Transient/ Burst Test
IEC 61000-4-5 : 2005 IEC 61326-1 : 2005	Surge Immunity Test
IEC 61000-4-6 : 2013 IEC 61326-1 : 2005	Voltage Dips & Interruption Test
IEC 61000-4-11 : 2004 IEC 61326-1 : 2005	Radiated Emission Test
IEC 61010-1 Ed 3.0 2010-06	Safety Requirements For Electrical Equipment, Part 1 : General Requirement

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