

Model: AI-01C

# Digital Temperature Controller with RTD Sensor



AI-01C

ACE INSTRUMENTS



## RTD PT 100 Sensor

RTD PT 100 Sensor is extremely suitable for temperature monitoring of cold rooms, pharma rooms, HVAC applications, machine building, process measurement & many other specialized applications. A typical RTD Pt 100 Sensor is a resistance temperature device, which gives an output in resistance proportional to the input temperature. The resistance output of the RTD Pt 100 sensor is linear to the temperature measured. The RTD Pt100 sensor is a transition type sensor with stainless steel pipe of selectable customized lengths & selectable extension cable. The extension cable is a high-temperature resistant Teflon Cable capable of withstanding temperatures upto 250 Deg. C.

### Features of RTD Sensor:

- | High Temperature Range
- | Heat Extension cable is a high-temperature resistant Teflon Cable capable of withstanding temperatures up to 250 Deg. C.
- | Class A linearity sensor & thus achieves high accuracy & linearity across the range.



### Digital Temp Controller Specifications:

Manufacturer	Ace Instruments
Model	AI-01C
Display	4 Digit Red LED Display , 0.56" High , 7 Segment
Accuracy	+/- 0.1 Deg. C +/- 1 count
Resolution	Fixed 0.1 for Temperature
Input Sensor	Front key selectable between RTD Pt-100, J Type TC, K Type TC, 4-20mA
Power Supply	230 VAC , 50 Hz. +/-10%
Enclosure	ABS Plastic Body Panel Mounted Type
Relay Output	2 Relay Outputs (2 Sets of NO/CO/NC), 5 Amps(Max. curr. rating)
Retransmission	Optional Retransmission of 4-20mA
Warranty	1 Year Manufacturing Warranty
Calibration	Provided alongwith and valid for 1 year, traceable to National Standards.
Dimension	96 X 96 mm
Weight	950 Grams Approx

## RTD Sensor Specifications

Model No	PT-100
Measuring Parameters	Temperature
Range	-100 to +250 Deg.C
Accuracy	Class A Accuracy of $\pm 0.2$ Deg.C +/- 1 count
Type	Simplex type with transition teflon cable
MOC	Stainless Steel 304 pipe of selectable length
Calibration	Calibration Certificate issued traceable to Electronics Test & Development Center, Hyderabad,India ( NABL Accredited Laboratory)
Steam Length	15 cm
Outer Diameter	6 mm

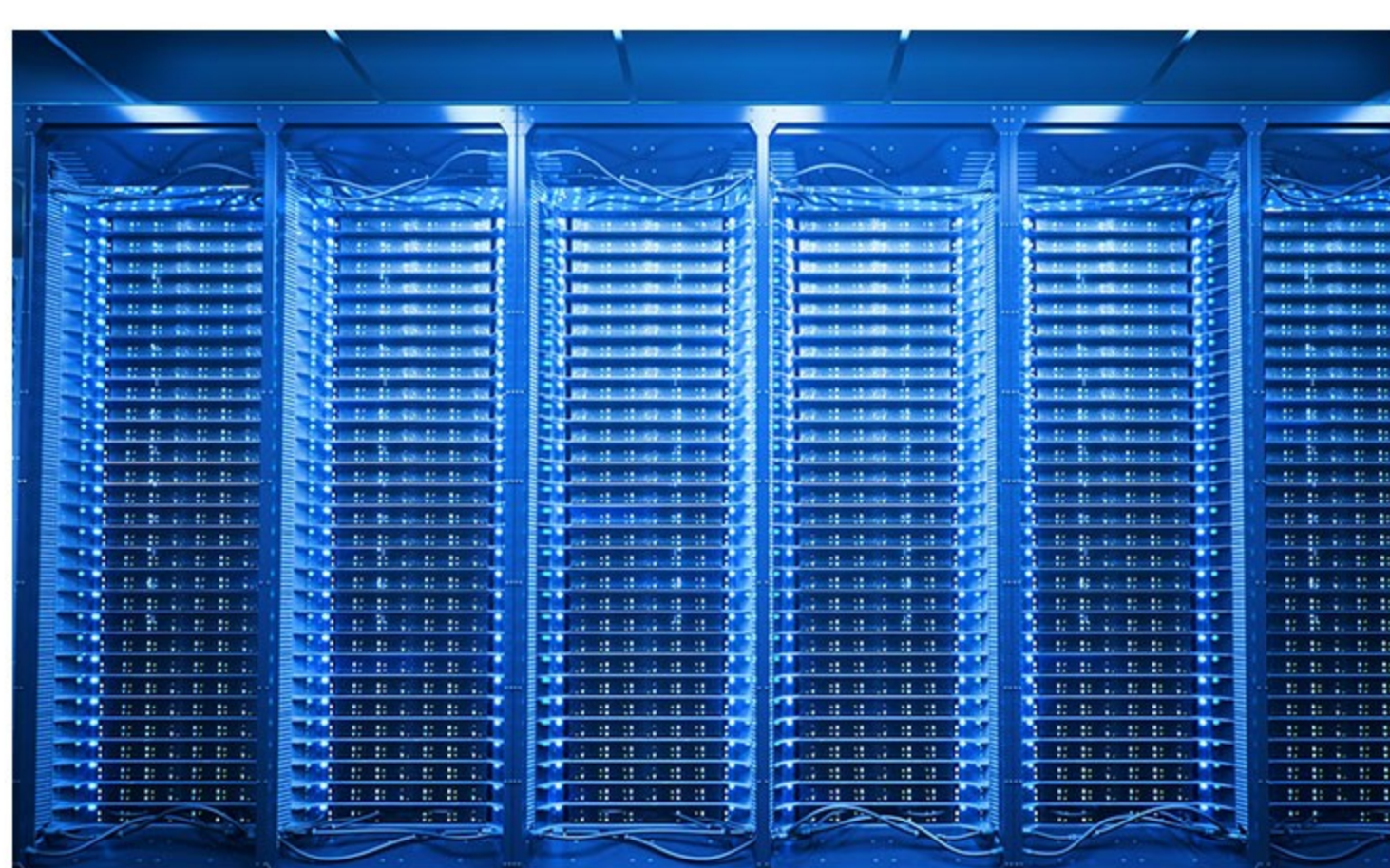
\*Note For other ranges please contact store



Ace-AI-O1C  
Temperature Controller



Ace Instruments PT-100  
RTD Thermometer



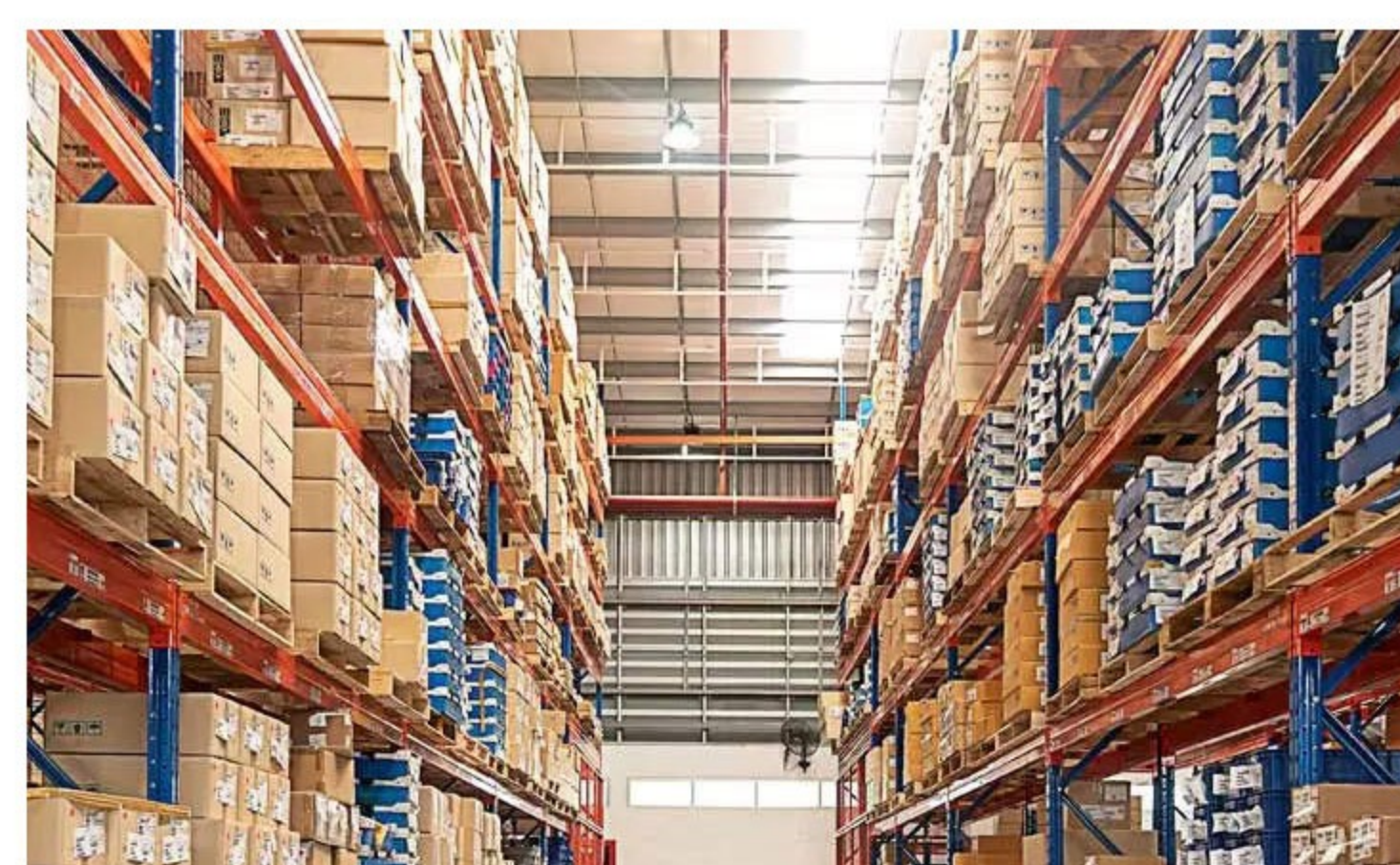
Server Rooms



Cold Storages



Reactors



Warehouses



Hospitals



Machinery Rooms

Temp | Humidity | Pressure | Differential Pressure | Vacuum | Gases | Particle | Air Flow  
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux | Distance | Vibration

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