

Product Data

Thermistor Temperature Sensors



ACI/1.8K Series ACI/20K Series ACI/100K Series



Product Description

The ACI/1.8K, ACI/20K and ACI/100K Series temperature sensors are thermistor type sensors. These sensors provide a predictable output over a specified temperature range to meet each manufacturers required input values. Thermistors offer a high accuracy and interchangeability over a wide operating temperature range.

A thermistors higher resistance relative to Platinum RTD's, creates a larger signal with the same measuring current, negating most lead wire resistance problems and eliminating the need for signal conditioners.

These units are offered in Room, Room with Setpoint, Room with Override, Room with Setpoint and Override, and Room w/ Setpoint, Override, and RJ11 or RS232 Jacks, Stainless Steel Duct and Duct without Box, Immersion, Stainless Plate, Raw, Bendable Copper and Stainless Steel Rigid Averaging, Strap-On, Bullet Probe, Button Sensor, and Outdoor Air Configurations.

Setpoint options include a linear 400 Ohm, 1K, 2K, 3K, 5K, 8.5K, 10K, 20K, or 100K slide potentiometer. An optional series resistor allows for any offset of the setpoint potentiometer. These may be either Direct or Reverse Acting.

Indication stickers for setpoint include Cool|Warm, 55 to 85, and 10 to 30°C. Others are available upon request.

Override options include a N/O switch in parallel with the sensor or a separate 2 pole terminal block for Tenant override.

All ACI sensors also come with optional 4 pin RJ11, 6 pin RJ12, or 1/8" RS232 stereo communication jack with terminal blocks for remote programming.

All of these units come with a two year factory warranty. Please contact ACI for further information regarding these products.

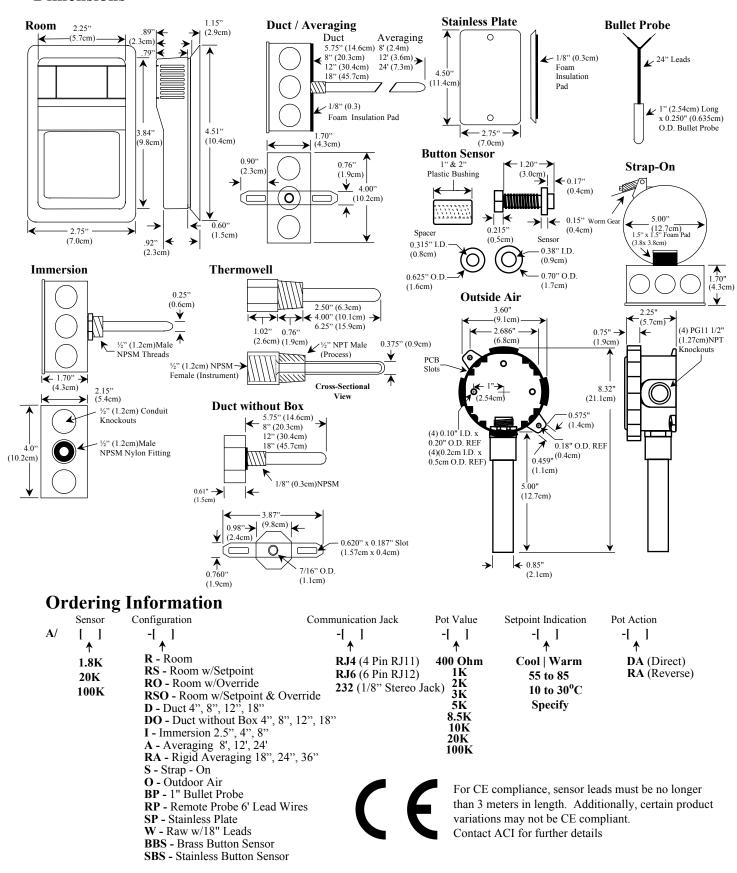
Product Specifications

Output	1,800 Ohms @ 77°F (25°C) 20,000 Ohms @ 77°F (25°C) 100,000 Ohms @ 77°F (25°C)	Accuracy	20K & 100K: +/- 0.2°C (0 to 70°C) 1.8K: +/- 0.2°C @ 25°C (77°F) +/- 1°C from 0-70°C (32 to 158°F)
Temperature Range	-40 to 302°F (-40 to 150°C)		17- 1 C Holli 0-70 C (32 to 130 1)
Interchangeability	See Accuracy		
Operating Humidity	0 to 90% RH non-condensing		
Dissipation Constant	20K & 100K - 3 mW /°C 1.8K - 1 mW /°C nominal		

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Dimensions



Example: A/20K -RSO -232 -8.5K -55 to 85 -RA or A/100K -I -4" or A/20K -RSO -8.5K -55 to 85 -RA

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