

### **Product Data**

# Nickel Temperature Sensors



## **ACI/1K-Nickel**



#### **Product Description**

The ACI/1K-Nickel Series temperature sensors incorporate a thin film RTD sensor, which provides a predictable output over a specified temperature range of -50 to 275°F.

These sensors are available in a two-wire configuration incorporating high accuracy and interchangeability throughout a wide temperature range.

These units are offered in Room, Room with Set Point, Room with Override, Room with Setpoint and Override, and Room with Setpoint, Override, and RJ11 Jack; Stainless Steel Duct and Duct without Box, Immersion, Stainless Plate, Raw, Strap-On, Bullet Probe, Bendable Copper Averaging, Button sensors, and Outdoor Air Configurations.

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

Indication stickers for the 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 can be ordered with optional 4 pin RJ11 or 6 pin RJ12 communication jacks with terminal blocks for remote programming.

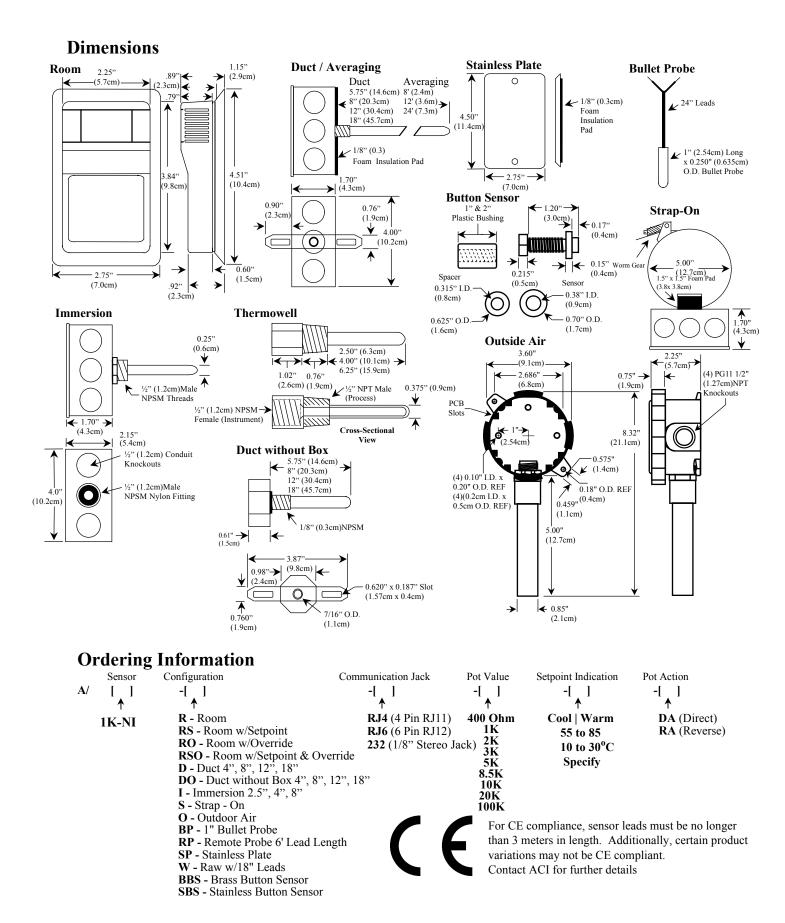
All units come with a two year factory warranty. Please contact ACI for more information regarding any of these products.

## **Product Specifications**

Output	1000 Ohms @ 70°F (21°C)	Accuracy:	Temp	Resistance	Accuracy
Temp. Coefficient	0.00527 Ohm/Ohm/°C		-50°F	674 Ohms	+/- 1.4°F
Temperature	-50 to 275°F (-45.5 to 135°C)		-30°F	725 Ohms	+/- 1.2°F
<b>Operating Range</b>			32°F	892 Ohms	+/- 0.5°F
Repeatability	+/- 0.2°F		$70^{\rm o}{ m F}$	1000 Ohms	+/- 0.4°F
Drift	Less than 0.2°F / Year		170°F	1314 Ohms	+/- 1.3°F
			250°F	1597 Ohms	+/- 1.7°F

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Example: A/1K-NI-RSO-RJ6-20K-55 to 85 -DA or A/1K-NI-I-4"