

# **Product Data**

# A/1K-NI Series

Nickel Temperature Sensor

## **Product Description**

The A/1K-NI Series temperature sensors incorporate a thin film RTD sensor, which provides a predictable output over the 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 operating temperature range. (See www.workaci.com for complete curve/chart specifications)

These units are offered in Room, Room with Setpoint, 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, Button Sensor and Outdoor Air Configurations.

All ACI Room sensors may be ordered with an optional setpoint (see chart on the following page), override, or with a 4 pin RJ11 or 6 pin RJ12 communication jack with terminal blocks, for remote programming. These units are also available with a 1/8" RS232 Stereo Jack.

The A/1K-NI series is covered by ACI's Five (5) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's web site, which is: www.workaci.com.

# **Product Specifications**

Output	1K Ohms @ 70°F (21°C)		
Accuracy	Temp	Resistance	Accuracy
	-50°F	674 Ohms	+/- 1.4°F
	-30°F	725 Ohms	+/- 1.2°F
	32°F	892 Ohms	+/- 0.5°F
	70°F	1000 Ohms	+/- 0.4°F
	170°F	1314 Ohms	+/- 1.3°F
	250°F	1597 Ohms	+/- 1.7°F
Operating Temp. Range	-32 to 275°F (0 to 134.8°C)		
Temp. Coefficient	0.00527 Ohm/Ohm/°C		
Tolerance T<0°C (32°F)	+/-0.4 + 0.028 * T(°C)		
Tolerance T>0°C (32°F)	+/-0.4 + 0.007 * T(°C)		
For sensors with Display option see <b>-LCD</b> Temp display cut sheet			

## RTD



#### Attributes

- Double Potting Process avoids moisture issues
- Non-polarity sensitive

### **Applications**

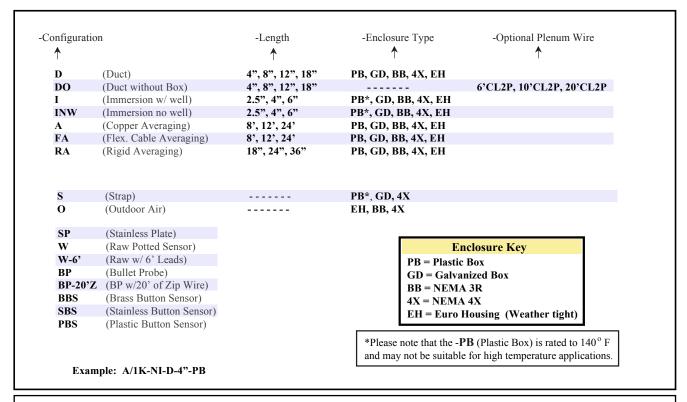
- OEM/Industrial
- Light Industrial
- DDC Systems



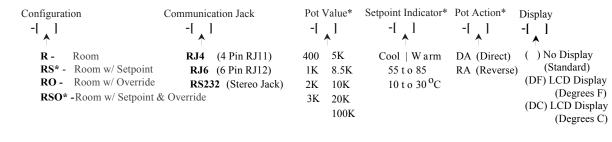
Automation Components, Inc. 2305 Pleasant View Rd. Middleton, WI 53562 PH: (608) 831-2585 FAX: (608) 831-7407 PRESSURE

#### **Ordering Information**

# A/1K-NI (choose configuration below)

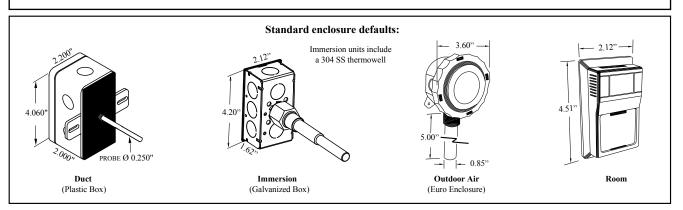


## **Room configurations:**



Room Sensors with\* require setpoint specs (value, indication, and action) and are not listed on your packing slip or invoice.

Example: A/1K-NI-RSO- 10K- Cool/Warm-DA



2305 Pleasant View Road Middleton, WI 53562 PH: (888) 967-5224 www.workaci.com