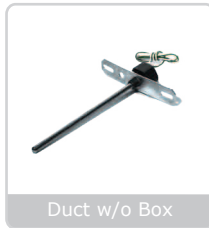




Featured Nickel RTD Product

Duct



Duct w/o Box



Immersion, Two Piece Well



Immersion, Machined Well



Immersion w/o Well



Copper Averaging



Flexible Averaging



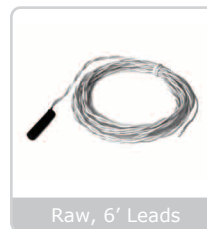
Strap



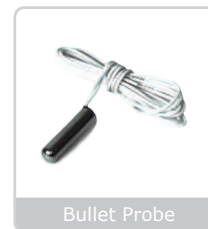
Outdoor Air



Raw Potted Sensor



Raw, 6' Leads



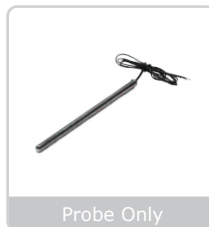
Bullet Probe



Bullet Probe, 20' Z



Rigid Averaging



Probe Only

NICKEL RTDS

General Mounting

ACI offers a comprehensive selection of general mounting configurations for Nickel RTDs (see list above). These sensors provide a predictable and accurate output over the specified temperature range. Each sensor configuration is designed and manufactured for long-term quality and performance. ACI incorporates standard features such as double encapsulation and etched Teflon leads where applicable.

The ACI Nickel RTD Series is covered by ACI's Five (5) year limited warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.





SPECIFICATIONS

Operating Temperature Range	-32 to 275°F (0 to 134.8°C)
Operating Humidity Range	10 to 95% non-condensing
Temperature Coefficient	0.00527 Ohm/Ohm/°C
Tolerance	T<0°C (32°F): +/-0.4 + 0.028 *T (°C), T>0°C (32°F): +/-0.4 + 0.007 *T (°C)
Sensor Output [A/1K-NI]	1KΩ @70°F (25°C)
Product Dimensions	Please reference pages 5, 6, 7 & 8

ORDERING

The Sensor Series is A/1K-NI. Please complete the Part Number by selecting one Configuration (A), one Length (B), one Enclosure (C) & one Lead Wire (D) (optional). Two piece thermowells are not intended for moving water or high pressure service. Fluid velocity and wake frequency are primary factors in well failure. Machined thermowells should be used in these types of applications. Two part thermowells are intended for tank, or low to no flow, applications. **NOTE:** See Thermowell data sheet for proper well selection for all Immersion related sensors. Enclosure options (C) include Plastic Box (PB), Galvanized Box (GD), NEMA 3R (BB), NEMA 4X (4X), & Euro Housing (EH). The Plastic Box (PB) is rated from 0 to 203°F. Stay within the same row throughout the selection process for all General Mounting pages. ▶

A Configuration	B Length	C Enclosure	D Lead Wire
<input type="radio"/> D (Duct) ▶	<input type="radio"/> 4" <input type="radio"/> 6" <input type="radio"/> 8" <input type="radio"/> 12" <input type="radio"/> 18" ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> DO (Duct w/o Box) ▶	<input type="radio"/> 4" <input type="radio"/> 6" <input type="radio"/> 8" <input type="radio"/> 12" <input type="radio"/> 18" ▶	<input type="radio"/> ---- (No Enclosure) ▶	<input type="radio"/> 6'CL2P <input type="radio"/> 10'CL2P <input type="radio"/> 20'CL2P
<input type="radio"/> PO (Probe Only) ▶	<input type="radio"/> 4" <input type="radio"/> 6" <input type="radio"/> 8" <input type="radio"/> 12" <input type="radio"/> 18" ▶	<input type="radio"/> ---- (No Enclosure) ▶	<input type="radio"/> 6'CL2P <input type="radio"/> 10'CL2P <input type="radio"/> 20'CL2P
<input type="radio"/> I (Immersion, Two Piece Well) ▶	<input type="radio"/> 2.5" <input type="radio"/> 4" <input type="radio"/> 6" ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> IM (Immersion, Machined Well) ▶	<input type="radio"/> 2.5" <input type="radio"/> 4" <input type="radio"/> 6" <input type="radio"/> 12" ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> INW (Immersion w/o Well) ▶	<input type="radio"/> 2.5" <input type="radio"/> 4" <input type="radio"/> 6" <input type="radio"/> 12" ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> A (Copper Averaging) ▶	<input type="radio"/> 8' <input type="radio"/> 12' <input type="radio"/> 24' ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> FA (Flexible Cable Averaging) ▶	<input type="radio"/> 8' <input type="radio"/> 12' <input type="radio"/> 24' ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> RA (Rigid Averaging) ▶	<input type="radio"/> 18" <input type="radio"/> 24" <input type="radio"/> 36" ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> S (Strap) ▶	<input type="radio"/> ---- (No Length) ▶	<input type="radio"/> PB <input type="radio"/> GD <input type="radio"/> ---- <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> O (Outdoor Air) ▶	<input type="radio"/> ---- (No Length) ▶	<input type="radio"/> ---- <input type="radio"/> ---- <input type="radio"/> BB <input type="radio"/> 4X <input type="radio"/> EH ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> W (Raw Potted Sensor) ▶	<input type="radio"/> ---- (No Length) ▶	<input type="radio"/> ---- (No Enclosure) ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> W-6' (Raw w/6' Leads) ▶	<input type="radio"/> ---- (No Length) ▶	<input type="radio"/> ---- (No Enclosure) ▶	<input type="radio"/> ---- (N/A)
<input type="radio"/> BP (Bullet Probe) ▶	<input type="radio"/> ---- (No Length) ▶	<input type="radio"/> ---- (No Enclosure) ▶	<input type="radio"/> 6'CL2P <input type="radio"/> 10'CL2P <input type="radio"/> 20'CL2P
<input type="radio"/> BP-20'Zip (BP, 20' of Zip Wire) ▶	<input type="radio"/> ---- (No Length) ▶	<input type="radio"/> ---- (No Enclosure) ▶	<input type="radio"/> ---- (N/A)

BUILD PART NUMBER

After completing (A), (B), (C) & (D) from the above table, fill in the Part Number Table below. The "Sensor Series" is a factory default. An example part number is provided.

A/1K-NI — — — —

SENSOR SERIES	A	B	C	D
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EXAMPLE: A/1K-NI - D - 4" - PB

The Plastic Box has a UL94-HB rating. The NEMA 4X enclosure has a UL94-V2 flammability rating. The Euro Housing enclosure has a UL94-V0 flammability rating.

