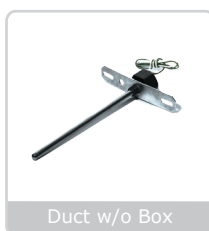




Featured Nickel RTD Product

Duct



Duct w/o Box

Immersion, Two
Piece WellImmersion, Machined
Well

Immersion w/o Well



Copper Averaging



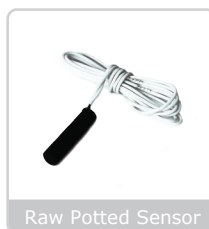
Flexible Averaging



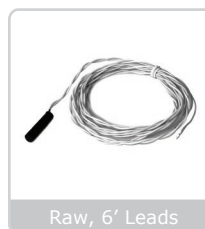
Strap



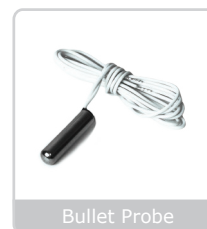
Outdoor Air



Raw Potted Sensor



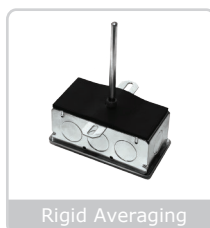
Raw, 6' Leads



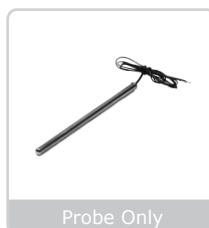
Bullet Probe



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
Accuracy	1000 +/- 1Ω(+/-0.34°F)@ 70°F(21.1°C) +/- 1°@ 130°F(54.4°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
☐ D (Duct) ▶	☐ 4" ☐ 6" ☐ 8" ☐ 12" ☐ 18" ▶	☐ PB ☐ GD ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ DO (Duct w/o Box) ▶	☐ 4" ☐ 6" ☐ 8" ☐ 12" ☐ 18" ▶	☐ ---- (No Enclosure) ▶	☐ 6'CL2P ☐ 10'CL2P ☐ 20'CL2P
☐ PO (Probe Only) ▶	☐ 4" ☐ 6" ☐ 8" ☐ 12" ☐ 18" ▶	☐ ---- (No Enclosure) ▶	☐ 6'CL2P ☐ 10'CL2P ☐ 20'CL2P
☐ I (Immersion, Two Piece Well) ▶	☐ 2.5" ☐ 4" ☐ 6" ▶	☐ PB ☐ GD ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ IM (Immersion, Machined Well) ▶	☐ 2.5" ☐ 4" ☐ 6" ☐ 12" ▶	☐ PB ☐ GD ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ INW (Immersion w/o Well) ▶	☐ 1" ☐ 2.5" ☐ 4" ☐ 6" ☐ 12" ▶	☐ PB ☐ GD ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ A (Copper Averaging) ▶	☐ 8' ☐ 12' ☐ 24' ▶	☐ PB ☐ GD ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ FA (Flexible Cable Averaging) ▶	☐ 8' ☐ 12' ☐ 24' ▶	☐ PB ☐ GD ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ RA (Rigid Averaging) ▶	☐ 18" ☐ 24" ☐ 36" ▶	☐ PB ☐ GD ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ S (Strap) ▶	☐ ---- (No Length) ▶	☐ PB ☐ GD ☐ ---- ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ O (Outdoor Air) ▶	☐ ---- (No Length) ▶	☐ ---- ☐ ---- ☐ BB ☐ 4X ☐ EH ▶	☐ ---- (N/A)
☐ W (Raw Potted Sensor) ▶	☐ ---- (No Length) ▶	☐ ---- (No Enclosure) ▶	☐ ---- (N/A)
☐ W-6' (Raw w/6' Leads) ▶	☐ ---- (No Length) ▶	☐ ---- (No Enclosure) ▶	☐ ---- (N/A)
☐ BP (Bullet Probe) ▶	☐ ---- (No Length) ▶	☐ ---- (No Enclosure) ▶	☐ 6'CL2P ☐ 10'CL2P ☐ 20'CL2P
☐ BP-20'Z (BP, 20' of Zip Wire) ▶	☐ ---- (No Length) ▶	☐ ---- (No Enclosure) ▶	☐ ---- (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 ACI Mars Plastic Duct housing (PB) has been tested to and complies with the requirements specified in the UL 2043 Standard for Fire Test for heat and visible smoke release for discrete products and their accessories installed in air-handling spaces. 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. CE exception: Averaging units and any other configuration with leads longer than 3 meters. 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.

