



Automation Components, Inc.

# NICKEL RTDS

General Mounting



Quick snap latch

Hinged cover (no screws)

Product shown: ACI's Plastic Box



Double encapsulation process for all probe related sensors

### ACCURACY

Temperature	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

### CONFIGURATION

Part #	Configuration
( D )	Duct
( DO )	Duct w/o box
( I )	Immersion w/ two piece well
( IM )	Immersion w/ machined well
( INW )	Immersion w/o well
( A )	Copper Averaging
( FA )	Flex, Cable Averaging
( RA )	Rigid Averaging
( S )	Strap
( O )	Outdoor Air
( W )	Raw Potted Sensor
( W-6' )	Raw w/6' Leads
( BP )	Bullet Probe
( BP-20'Z )	BP w/20' of Zip Wire

### SENSOR OUTPUTS

Part #	Output
A/1K-NI	1K Ohms @ 70°F (21°C)

## NICKEL RTDS

ACI offers a comprehensive list of general mounting configurations (see list above). The most prominent enclosure of this series is the ACI Plastic Box. It features a robust design and advanced features not typically found in a standard sensor enclosure. Each sensor configuration is designed and manufactured for long-term quality and performance.

The ACI Nickel RTD 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](http://www.workaci.com).



Made in the U.S.A.

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## 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)
Tolerance	T>0°C (32°F): +/-0.4 + 0.007 *T (°C)

## ORDERING

**BUILD YOUR PART#**

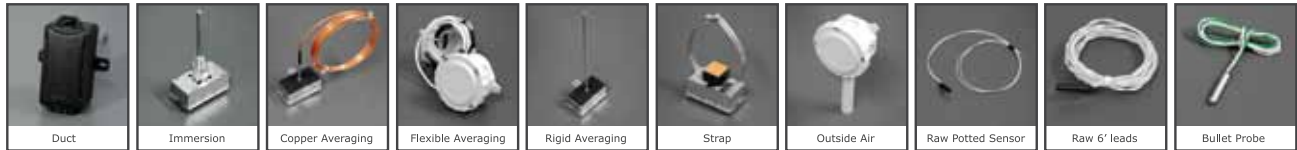
EXAMPLE

A/1K-NI - D - 4" - PB - ----

A/1K-NI - - - - -

STEP 1	A SENSOR SERIES	B CONFIGURATION	C LENGTH	D ENCLOSURE	E LEAD WIRE
<p>Select sensor series, configuration, length, enclosure &amp; lead wire if needed.</p> <p>The orange outlines indicate related characteristics</p> <p>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.</p>	A/1K-NI	( D ) Duct	4", 6", 8", 12", 18"	PB, GD, BB, 4X, EH	(----)
		( DO ) Duct w/o box	4", 6", 8", 12", 18"	(----)	6'CL2P, 10'CL2P, 20'CL2P
		( I )* Immersion w/ two piece well	2.5", 4", 6"	PB*, GD, BB, 4X, EH	(----)
		( IM ) Immersion w/ machined well	2.5", 4", 6"	PB*, GD, BB, 4X, EH	(----)
		( INW ) Immersion w/o well	2.5", 4", 6"	PB*, GD, BB, 4X, EH	(----)
		( A ) Copper Averaging	8', 12', 24'	PB, GD, BB, 4X, EH	(----)
		( FA ) Flex. Cable Averaging	8', 12', 24'	PB, GD, BB, 4X, EH	(----)
		( RA ) Rigid Averaging	18", 24", 36"	PB, GD, BB, 4X, EH	(----)
		( S ) Strap	(----)	PB* GD, --, 4X, --	(----)
		( O ) Outdoor Air	(----)	--, --, BB, 4X, EH	(----)
		( W ) Raw Potted Sensor	(----)	(----)	(----)
		( W-6' ) Raw w/6' Leads	(----)	(----)	(----)
		( BP ) Bullet Probe	(----)	(----)	6'CL2P, 10'CL2P, 20'CL2P
( BP-20'Z ) BP w/20' of Zip Wire	(----)	(----)	(----)		

### CONFIGURATION OPTIONS (Table B)



### ENCLOSURE OPTIONS (Table D) available options shown on the same line as their corresponding configurations

( 4X )	NEMA 4X
( BB )	NEMA 3R
( GD )	Galvanized Box
( EH )	Euro Housing (weather tight)
( PB )	Plastic Box

\*The ACI plastic box (PB) is rated for application environments ranging from -4 to 196°F (-20 to 91°C), the box is shown with an immersion adapter.



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.