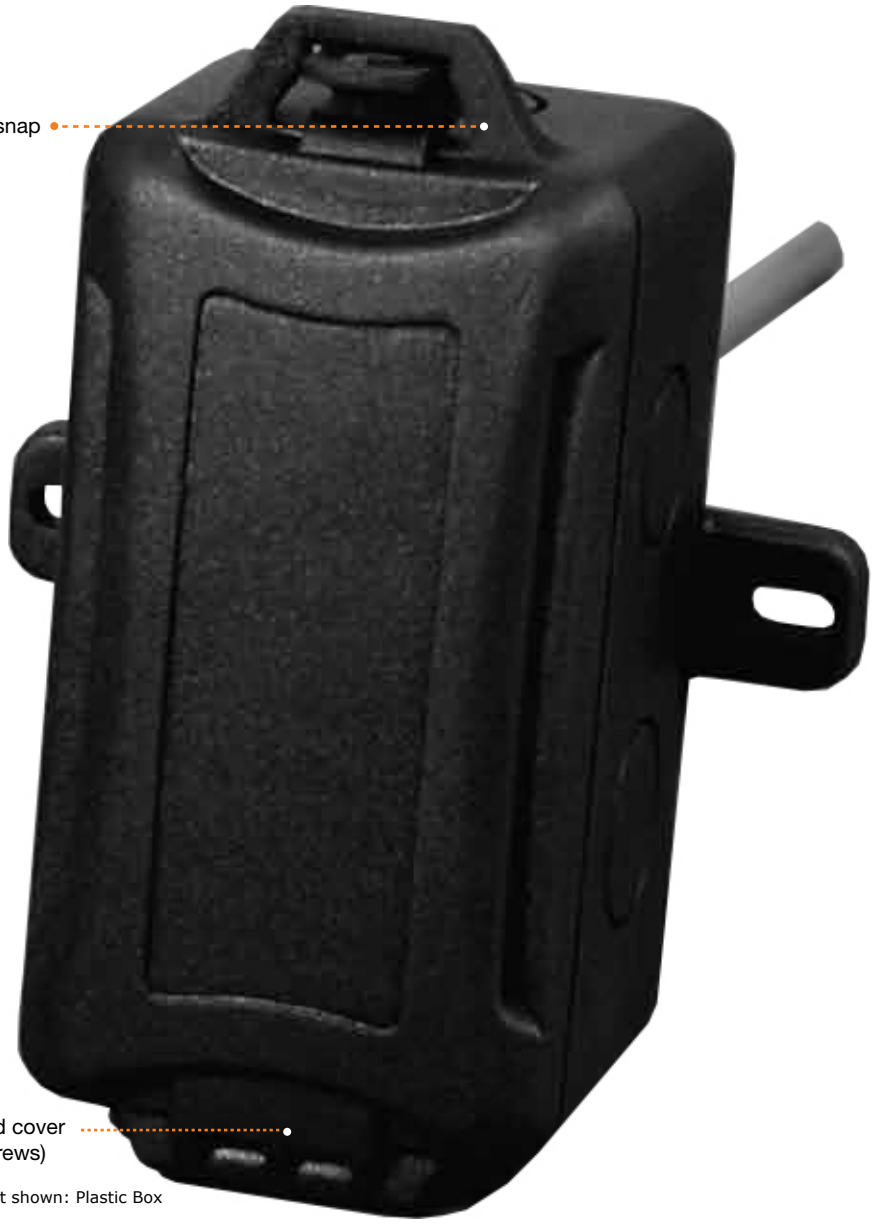
NICKEL RTDS



Product shown: 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
I-1K-NI	1K Ohms @ 70°F (21°C)

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A comprehensive list of general mounting configurations (see list above) is available. The most prominent enclosure of this series is the 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.

Made in the U.S.A.

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

I-1K-NI – D – 4" – PB – ----

A B C D E

I-1K-NI – – – – –

A B C D E

STEP 1

Select sensor series, configuration, length, enclosure & lead wire if needed.

The orange outlines indicate related characteristics

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.

A SENSOR SERIES	B CONFIGURATION		C LENGTH	D ENCLOSURE	E LEAD WIRE
I-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)


Duct


Immersion


Copper Averaging


Flexible Averaging


Rigid Averaging


Strap


Outside Air


Raw Potted Sensor


Raw 6' leads


Bullet Probe

ENCOSURE 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 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.


NEMA 4X


NEMA 3R


Galvanized Box


Euro Housing


Plastic Box

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.