

*Nickel Temperature Sensors*



**I/1K-Nickel**



**Product Description**

The I/1K-Nickel Series temperature sensors incorporate a wire wound RTD sensor, which provides a predictable output over a 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 temperature range.

These units are offered in Room, Room with Set Point, Room with Override, Room with Setpoint and Override, and Room with Setpoint, Override, and RJ11 Jack; Duct, Duct without Box, Immersion, Stainless Plate, Raw, Strap-On, Bullet Probe, Averaging, and Outside Air Configurations.

Setpoint options include a linear 400 Ohm, 1K, 2K, 5K, 8.5K, 10K, 20K, or 100K slide potentiometer. An optional series resistor allows for any offset of the setpoint potentiometer. The slide pot action may be either Direct or Reverse Acting.

Indication stickers for the setpoint include Cool|Warm, 55 to 85, and 10 to 30°C. Others are available upon request.

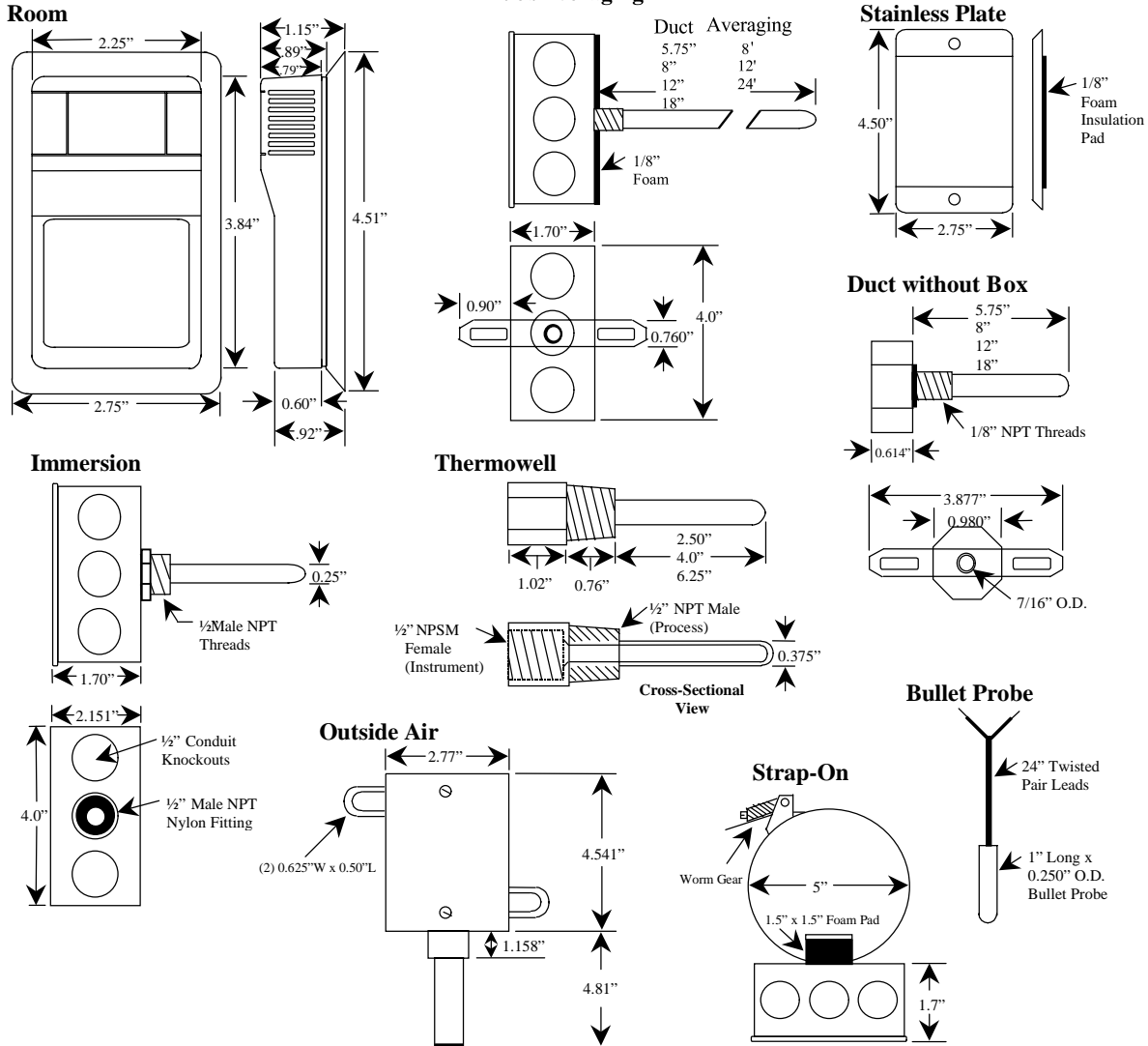
Override options include a N/O switch in parallel with the sensor or a separate 2 pole terminal block for Tenant override.

All I sensors can be ordered with optional 4 or 6 pin RJ11 communication jacks with terminal blocks for remote programming.

**Product Specifications**

<b>Output</b>	1000 Ohms @ 70°F (21°C)	<b>Accuracy:</b>	<u>Temp</u>	<u>Resistance</u>	<u>Accuracy</u>
<b>Temp. Coefficient</b>	0.00527 Ohm/Ohm/°C		-50°F	674 Ohms	+/- 1.4°F
<b>Temperature Range</b>	-50 to 275°F (-45.5 to 135°C)		-30°F	725 Ohms	+/- 1.2°F
<b>Repeatability</b>	+/- 0.2°F		32°F	892 Ohms	+/- 0.5°F
<b>Drift</b>	Less than 0.2°F / Year		70°F	1000 Ohms	+/- 0.4°F
			170°F	1314 Ohms	+/- 1.3°F
		250°F	1597 Ohms	+/- 1.7°F	

## Dimensions



## Ordering Information

Sensor	Configuration	Communication Jack	Pot Value	Setpoint Indication	Pot Action
I/ [ ]	- [ ]	- [ ]	- [ ]	- [ ]	- [ ]
↑ Nickel	↑ R - Room RS - Room w/ Setpoint RO - Room w/ Override RSO - Room w/ Setpoint & Override D - Duct 4", 8", 12", 18" DO - Duct without box 4", 8", 12", 18" I - Immersion 2.5", 4", 8" A - Averaging 8', 12', 24' S - Strap-On O - Outside Air BP - 1" Bullet Probe SP - Stainless Plate W - Ra w with 18" Leads	↑ RJ4 (4 Pin) RJ6 (6 Pin)	↑ 400 1K 2K 5K 8.5K 10K 20K 100K	↑ Cool   Warm 55 to 85 10 to 30°C Specify	↑ DA (Direct) RA (Reverse)

**Example:** I/Nickel -RSO -RJ6 -20K -55 to 85 -DA or I/Nickel-I-4"