

Platinum Temperature Sensors



I/100 Series I/1000 Series



Product Description

The I/100 and I/1000 Series temperature sensors incorporate a Class A, Thin Film Platinum RTD sensor which conforms to DIN-IEC-751 platinum RTD standards.

These sensors are available in both two or three-wire configurations, 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, Averaging, Strap-On, Bullet Probe, and Outside Air Configurations.

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

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

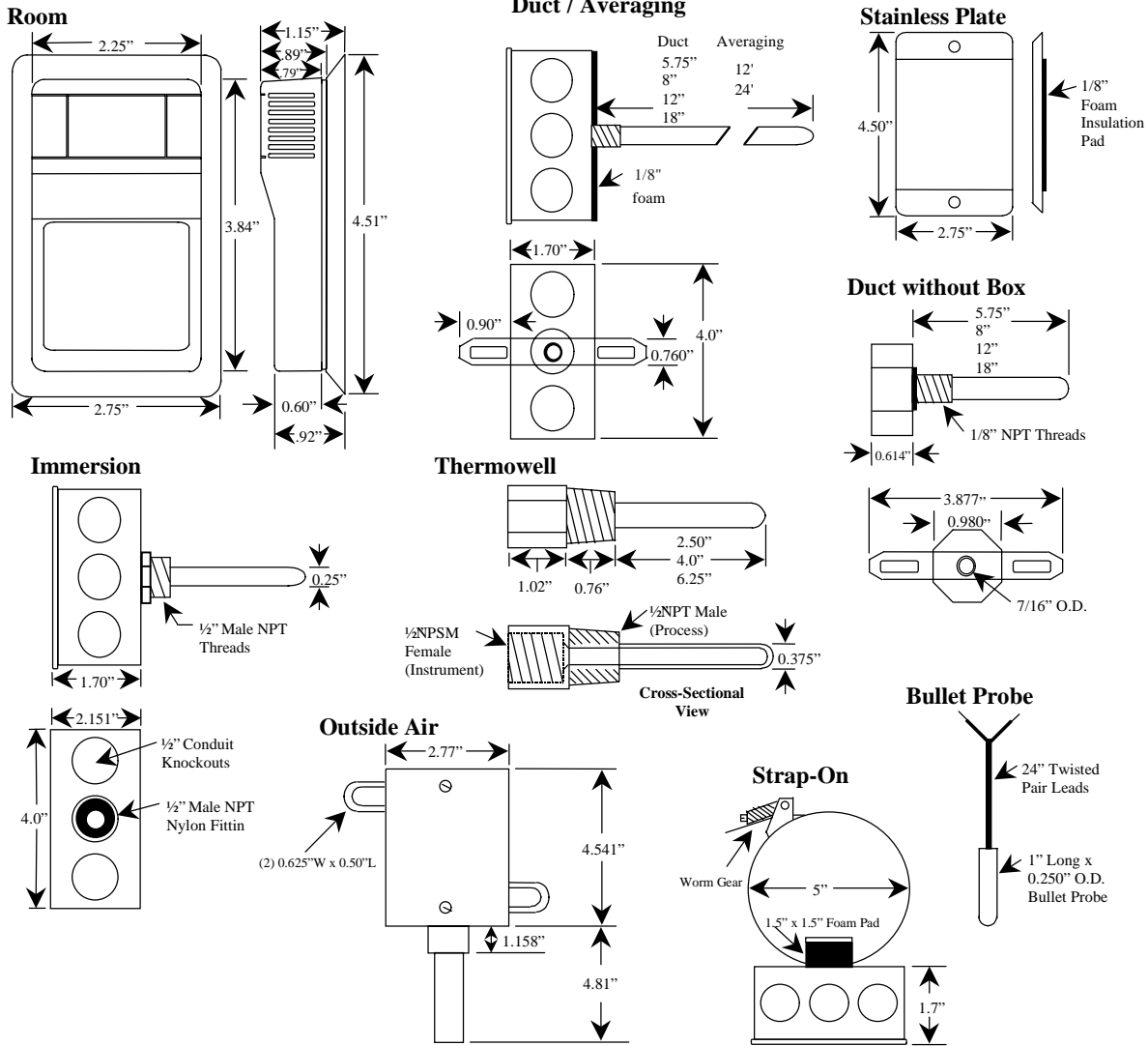
Override options include a N/O switch in parallel with the sensor or a separate 2 pole terminal block for Tenant override.

All room sensors may also be ordered with an optional 4 or 6 pin RJ11 communication jacks with terminal blocks, for remote programming.

Product Specifications

Output	100 Ohms @ 32°F (0°C) 1000 Ohms @ 32°F (0°C)	Resistance Characteristics	+/- 0.06% Class A (Standard)
Temp. Coefficient	0.00385 Ohm/Ohm/°C	Repeatability	+/- 0.1°C
Standardization	DIN-IEC-751(formerly DIN 43760)	Stability	less than +/- 0.1°C drift
Accuracy	+/- 0.06% @ 32°F single point +/- 1.0 Ohm @ 70°F (Avg.)	Single Point Temp Span	-58 to 392°F (-50 to 200°C)
		Averaging Temp Span	-50 to 275°F (-45.5 to 134.8°C)

Dimensions



Ordering Information

I /	Sensor	# Wires	Configuration	Communication Jack	Pot Value	Setpoint Indicator	Pot Action
	[]	-[]	-[]	-[]	-[]	-[]	-[]
	↑	↑	↑	↑	↑	↑	↑
	100	2W (2-Wire)	R - Room	RJ4 (4 Pin)	400	Cool Warm	DA (Direct)
	1K	3W (3-Wire)	RS - Room w/ Setpoint	RJ6 (6 Pin)	1K	55 to 85	RA (Reverse)
			RO - Room w/ Override		2K	10 to 30°C	
			RSO - Room w/ Setpoint & Override		5K		
			D - Duct 4", 8", 12", 18"		8.5K		
			DO - Duct without box 4", 8", 12", 18"		10K		
			I - Immersion 2.5", 4", 8"		20K		
			A - Averaging 12', 24'		100K		
			S - Strap-On				
			O - Outside Air				
			SP - Stainless Plate				
			BP - Bullet Probe				
			W - Raw				

Example: I/100-2W-RSO-RJ6-20K-55 to 85-DA or I/1K-3W-D-8" or I/1K-A-24"