

## Thermistor Temperature Sensors



### I/10K-CSI Series



### Product Description

The I/10K-CSI Series temperature sensors are thermistor type sensors. These sensors provide a predictable output over a specified temperature range to meet each manufacturers required input values.

Thermistors offer high accuracy and interchangeability over a wide temperature range.

The thermistors high resistance relative to Platinum RTD's create a larger signal with the same measuring current, negating most lead wire resistance problems and eliminating the need for signal conditioners.

These units are offered in Room, Room with Set Point, Room with Override, Room with Setpoint and Override, and Room w/ Setpoint, Override, and RJ11 Jack; Duct, Duct without Box, Immersion, Stainless Plate, Raw, Averaging, 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 potentiometer. An optional series resistor allows for any offset of the setpoint potentiometer. These may be 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.

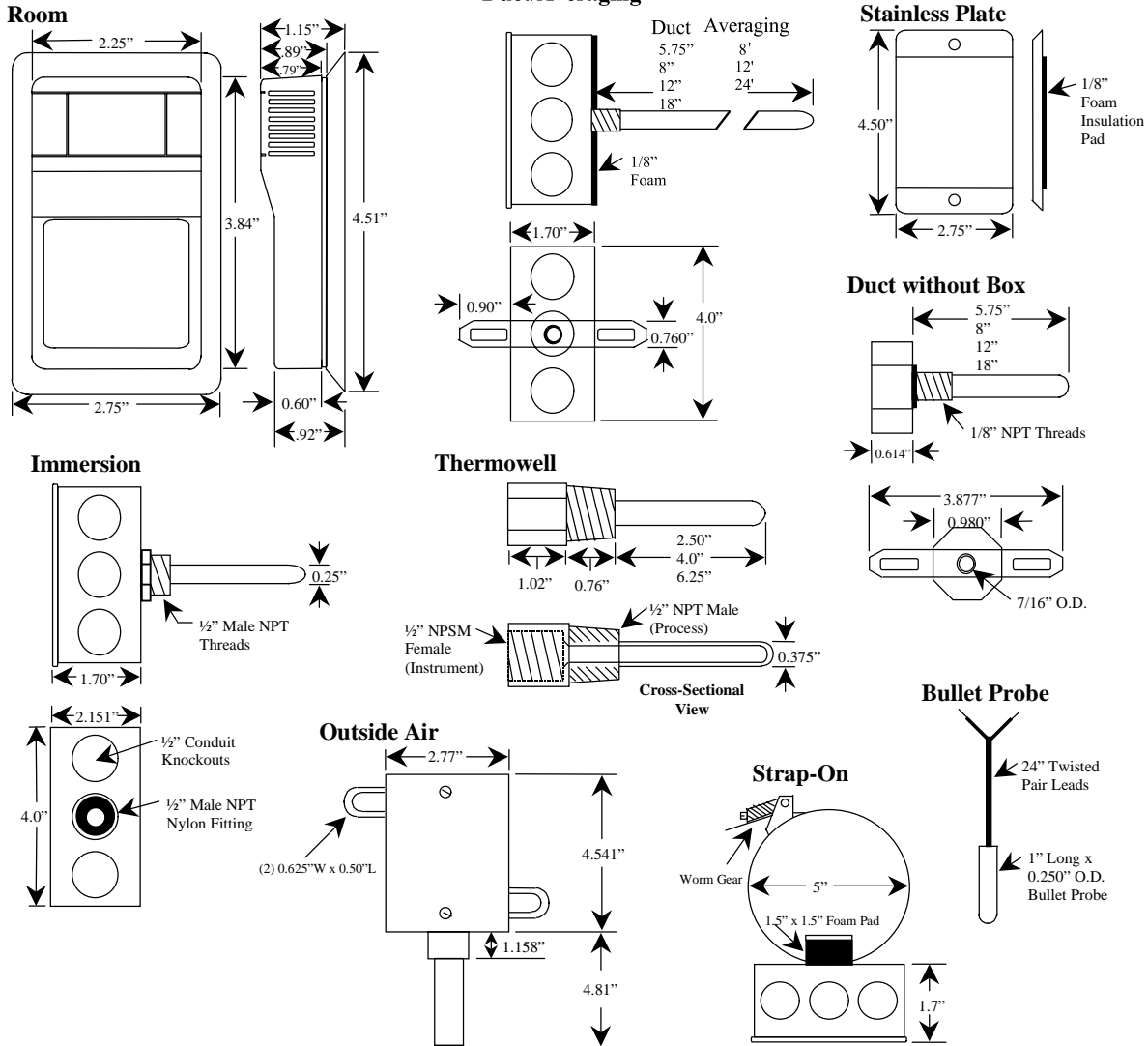
Override options include a N/O switch in parallel with the sensor or a separate 2 pole terminal block for tenant override.

All I/sensors can be ordered with optional 4 or 6 pin RJ11 or RS232 communication jack with terminal blocks for remote programming or an RS232 Communication Jack.

### Product Specifications

<b>Output</b>	10,000 Ohms @ 77°F (25°C)	<b>Dissipation Constant</b>	3 mW / °C
<b>Temperature Range</b>	-40 to 302°F (-40 to 150°C)	<b>Accuracy</b>	+/- 0.2°C (0 to 70°C)
<b>Interchangeability</b>	+/- 0.2°C (0 to 70°C)	<b>Power Requirements</b>	5 vdc excitation via 10K Thermistor
<b>Operating Humidity</b>	10 to 90% RH non-condensing		

## Dimensions



## Ordering Information

I/	Sensor	Configuration	Communication Jack	Pot Value	Setpoint Indication	Pot Action
	[ ]	-[ ]	-[ ]	-[ ]	-[ ]	-[ ]
	↑	↑	↑	↑	↑	↑
	CSI (10K-CSI)	R - Room	232 (RS232)	400	Cool   Warm	DA (Direct)
		RS - Room w/ Setpoint	RJ4 (4 Pin)	1K	55 to 85	RA (Reverse)
		RO - Room w/ Override.	RJ6 (6 pin)	2K	10 to 30°C	
		RSO - Room w/ Setpoint & Override		5K	Specify	
		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 8", 12", 24"		100K		
		S - Strap-On				
		O - Outside Air				
		SP - Stainless Plate				
		BP - Bullet Probe 1"				
		W - Raw w/ 24" Leads				

**Example:** I/CSI-RSO-RJ6-20K-55 to 85-DA or I/CSI-D-8" or I/CSI-RSO-232-20K-Cool/Warm-DA