

Semiconductor Type Temperature Sensors



I/592 Series I/592-10K Series



Product Description

The I/592 Series semiconductor type temperature sensors provide accurate temperature measurement and control.

The I/592 provides a 248 to 378 uA output throughout the temperature range of -25 to 105°C (-13 to 221°F).

The I/592-10K uses a precision 10K (0.1%) resistor to convert the current output to a three-wire 2.48 to 3.78 VDC output.

These units are calibrated using a NIST traceable thermometer to ensure the highest possible accuracy. Each unit will be individually calibrated and labeled with its offset never to exceed 2.2°C (4°F).

These units are offered in Room, Room with Setpoint, Room with Override, Room with Setpoint and Override, Duct, Immersion, Stainless Plate, Raw, Strap-On, and Outside Air configurations.

Setpoint options include a linear 400 Ohm, 1K, 2K, 5K, 8.5K, 10K, 20K, and 100K slide potentiometer and any offset resistor in series. These may be ordered as either Direct or Reverse Acting.

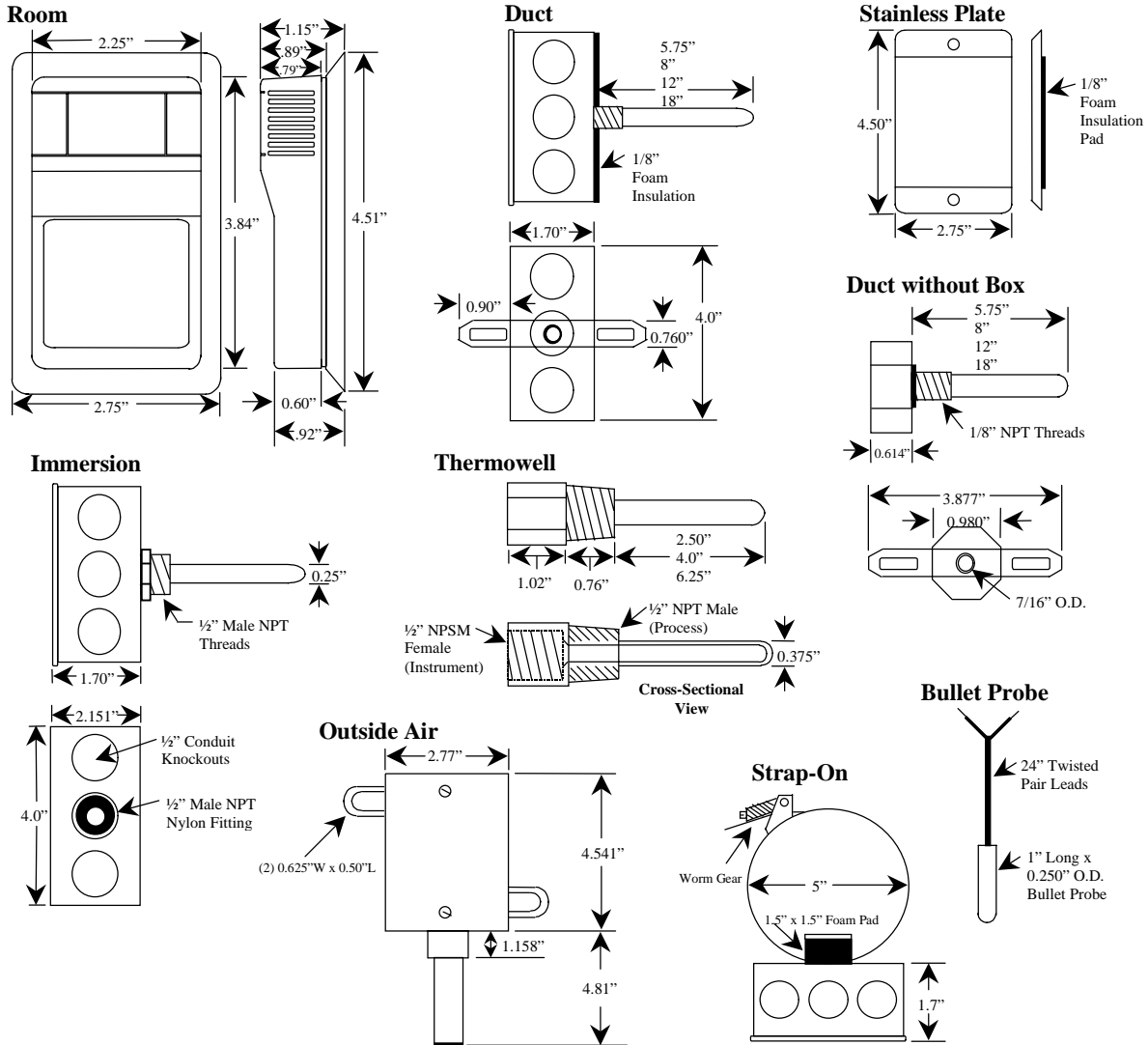
Override options include a N/O switch in parallel with the sensor or a separate two-pole terminal block for Tenant override.

Custom configurations are available upon request.

Product Specifications

Supply Voltage	+4 to 30 VDC	Repeatability	+/- 0.18°F (+/- 0.10°C)
Temperature Range	-13 to 221°F (-25 to 105°C)	Linearity	+/- 0.27°F max from 32 to 158°F
Temperature Coefficient	I/592 - 1 uA/°C (0.556 uA/°F) I/592-10K - 10 mV/°C (5.556 mV/°F)	Output	I/592 - 248 to 378 uA I/592-10K - 2.48 to 3.78 VDC
Sensor Accuracy	+/- 1.26°F @ 77°F (+/- 0.70°C @ 25°C)	Offset	+/- 4°F max (+/- 2.2°C max)

Dimensions



Ordering Information

I /	Sensor	Configuration	Pot Value	Pot Action	Setpoint Indicator
	[]	[]	[]	[]	[]
	↑	↑	↑	↑	↑
	592	R - Room	400 Ohm	DA (Direct)	Cool Warm
	592-10K	RO - Room w/ Override	1K	RA (Reverse)	55 to 85
	592-CS	RS - Room w/ Setpoint	2K		10 to 30°C
	592-10K-CS	RSO - Room w/ Setpoint, Override	5K		Specify
		D - Duct - 4", 8", 12", 18"	8.5K		
		I - Immersion 2.5", 4", 8"	10K		
		S - Strap-On	20K		
		O - Outside Air	100K		
		SP - Stainless Plate			
		RP - Remote Probe			

Example: I/592 -RSO -1K -DA -Cool|Warm or I/592-10K -D -8"