

*High Temperature Transmitters*



**I/TT100-HT  
I/TT1000-HT**



**Product Description**

The I/TT100-HT and I/TT1000-HT Series temperature transmitters incorporate a Class B thin film platinum RTD sensor which conforms to DIN-IEC-751 platinum RTD standards.

INTEC provides two temperature transmitters, the I/TT100-HT for use with a 100 ohm RTD and the I/TT1000-HT for use with a 1000 ohm RTD. The transmitters produce a linear 4-20 mA output carried on a two-wire system. Optional voltage ranges of 1 to 5 or 2 to 10 VDC can also be ordered. The input voltage to the transmitter may vary from 7-35 VDC. The transmitter is supplied factory calibrated and is protected from EMI and RF interference when using a 4-20 mA output. The output current may be limited upon request.

One of the most important features of the I/TT100-HT and I/TT1000-HT temperature transmitters is that they are air encapsulated. This allows the sensor to have a more stable output, since the sensing element isn't subjected to the constant expansion and contraction of the encapsulation materials. The sensors are mounted in a 1/4" diameter stainless steel probe and supplied with 24" Nickel-plated fiberglass leads. All remote probes have 8' Nickel-plated fiberglass leads.

Some of the typical applications are for Stacks, Boilers, Oil Baths, Process Controls, Commercial Ovens, Plastics Processing, Bearings, Incubators, and Truck or Vehicle Engines.

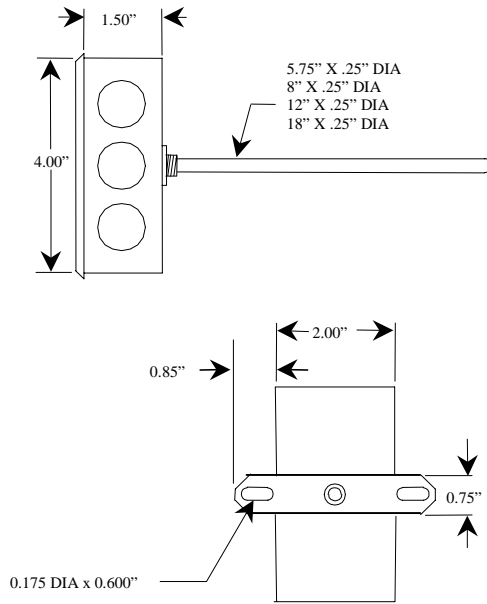
These units are offered in Duct, Duct without Box, Immersion, and Remote Probe configurations.

**Product Specifications**

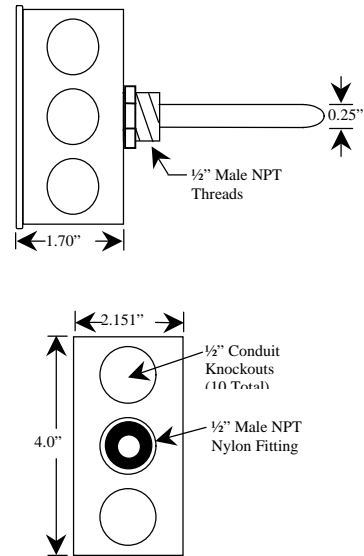
<b>Input</b>	2-wire, Platinum 100/1000 $\Omega$ RTD	<b>Transmitter Accuracy</b>	+/- 0.1% of span
<b>Output</b>	2-wire, Linear 4 to 20mA DC Current	<b>Sensor Accuracy</b>	+/- 0.3°C @ 0°C Single Point
<b>Supply Voltage</b>	7 to 35 VDC, No Polarity Sensitivity	<b>Temperature Sensor Range</b>	-40 to 842°F (-40 to 450°C)
<b>Linearity</b>	+/- 0.05% of span	<b>Transmitter Operating Range</b>	32 to 158°F

## Dimensions

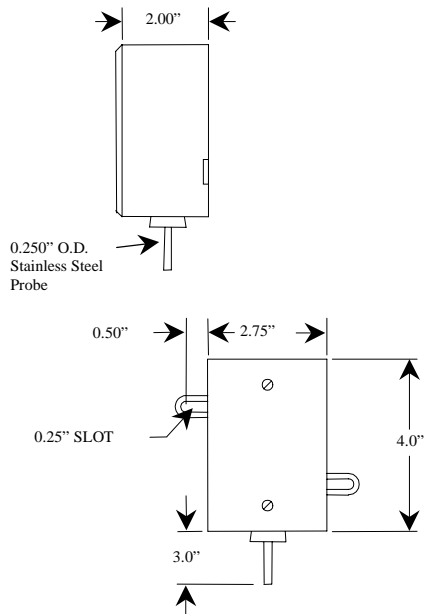
### DUCT



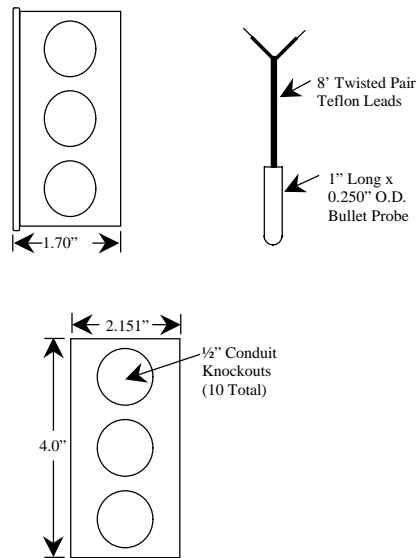
### IMMERSION



### OUTSIDE



### REMOTE PROBE



## Ordering Information

Sensor	Span	Configuration	Output
I / [ ]	[ ]	[ ]	[ ]
↑	↑	↑	↑
<b>TT100HT</b> (100 Ohm RTD)	<b>Specify</b>	<b>D-</b> Duct - 4", 8", 12", 18"	<b>(1)</b> 1 to 5 VDC
<b>TT1KHT</b> (1000 Ohm RTD)		<b>DO-</b> Duct without box 4, 8, 12, 18"	<b>(2)</b> 2 to 10 VDC
		<b>I-</b> Immersion 4", 8"	<b>(4)</b> 4 to 20 mA
		<b>RP-</b> Remote Probe (8'Leads)	

**Example:** I/TT1KHT -(0 to 300°C) -I -4" -(4) or I/TT100HT -(300 to 800°F) -I -8" -(2)