

Matched Temperature Transmitters



I/TTM100 I/TTM1000



Product Description

The I/TTM100 and I/TTM1000 Series transmitters provide a highly accurate current output. To obtain the high accuracy, the transmitter is calibrated while the sensor is in an environmental chamber. The standard deviation is then documented on a Certificate of Calibration at 3 points as compared to an NIST Traceable thermometer. Each unit includes a two-wire Class A RTD that conforms to IEC 751 platinum RTD standards.

A matched transmitter works with either a 100 or 1000 Ohm RTD. The transmitter produces a linear 4-20 mA output carried on a two-wire system. Optional output voltage ranges (1-5 or 2-10 VDC) can also be ordered. The input to the transmitter may vary from 7 to 35 VDC, can be unregulated, and is not polarity sensitive. The transmitter is supplied factory calibrated, for any range between -50 to 392°F. The current output is unsusceptible to both EMI and

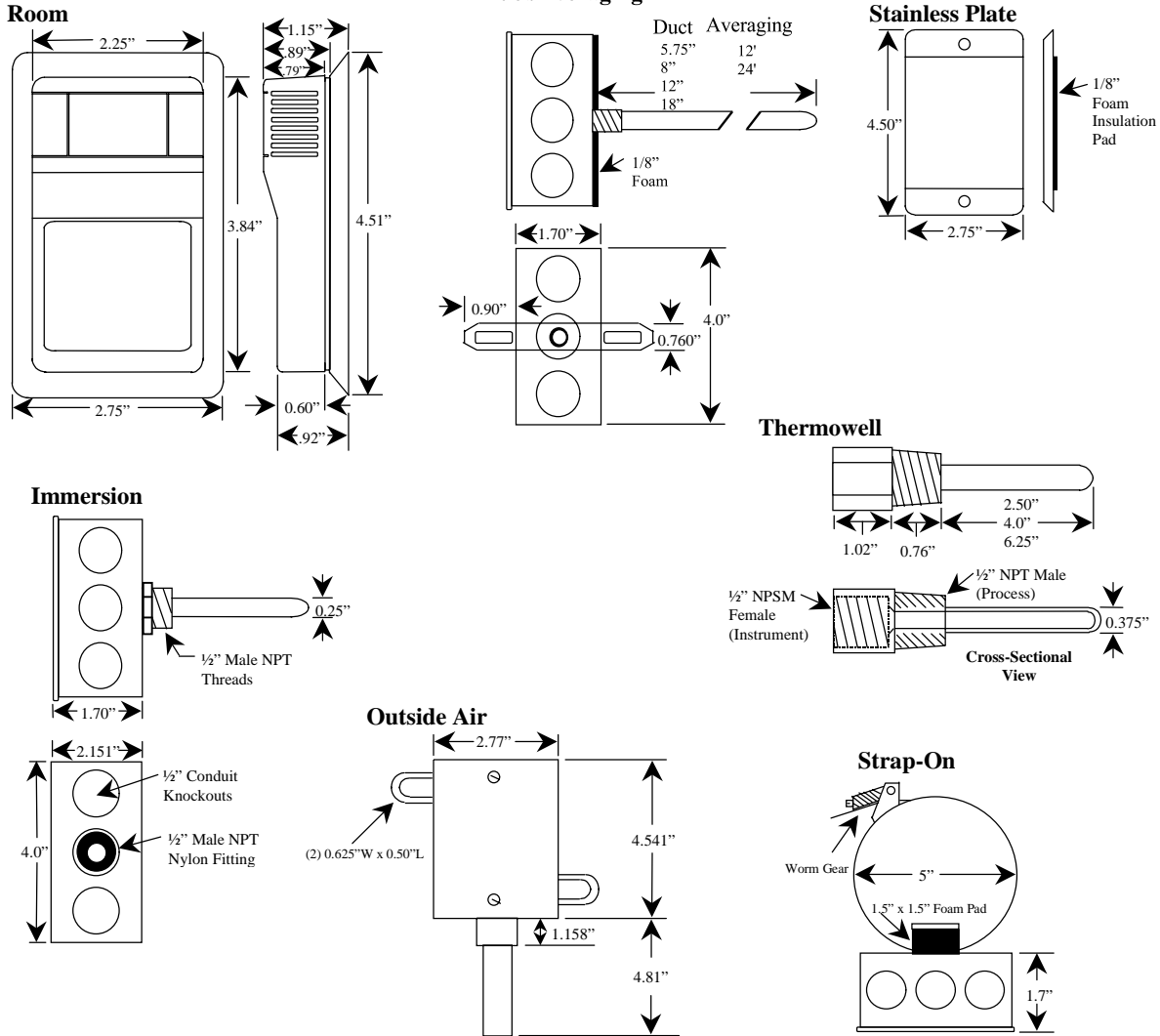
load resistances less than 800 Ohms. Additional options include current limiting and an AC power input.

The transmitter is available in numerous configurations to satisfy all the industry standards. The room transmitter is encased in an unobtrusive, plastic enclosure and can be equipped with a 4-20 mA setpoint and Tenant override. The transmitter can be ordered on a surface plate made of either stainless steel or aluminum. For measuring pipe temperature, TT's can be ordered with a strap. For air duct measurement's, our TT's are offered with a 4, 8, 12, and 18" probe or as a remote probe with 6' leads. Averaging configurations are available in 12' and 24' lengths, made of soft copper tubing to fit in any duct. Lastly, the TT's can be ordered as immersion type sensors that include a 2.5", 4", or 8" high quality stainless steel thermowells. Duct and outside air configurations are available inside a NEMA4 or NEMA 4X weatherproof enclosure. Please specify when ordering

Product Specifications

Input	2-wire Platinum 100/1000 Ohm Class A RTD	Sensor Operating Range Single Point	-58 to 392°F
		Sensor Operating Range Averaging	-50 to 275°F
Output	2-wire, Linear 4 to 20mA DC Current	Sensor Accuracy	0.06% @ 32°F (Class A)
Supply Voltage	7 to 35 VDC, No Polarity Sensitivity	Transmitter Accuracy	+/- 0.1% of span
Linearity	+/- 0.05% of span	Transmitter Operating Range	32 to 158°F

Dimensions



Ordering Information

Sensor	Span	Configuration	Output
I / []	[]	[]	[]
↑ TTM100 (100 Ohm RTD)	↑ (1) 40 to 90°	↑ R- Room	↑ (1) 1 to 5 VDC
↑ TTM1K (1000 Ohm RTD)	↑ (2) 30 to 100°	↑ RO- Room w/ Override	↑ (2) 2 to 10 VDC
	↑ (3) 20 to 120°	↑ RS- Room w/ Setpoint	↑ (4) 4 to 20 mA
	↑ (4) 40 to 140°	↑ RSO- Room w/ Setpoint, Override	
	↑ (5) 40 to 240°	↑ D- Duct - 4", 8", 12", 18"	
	↑ (6) -30 to 130°	↑ I- Immersion 2.5", 4", 8"	
	↑ (7) 0 to 150°	↑ S- Strap-On	
	↑ (8) Specify	↑ O- Outside Air	
		↑ A- Averaging 12', 24'	
		↑ SP- Stainless Plate	
		↑ RP- Remote Probe	

Example: I/TTM1000 -(40 to 90) -I -4" -(4) or I/TTM100 -(5) -I -4" -(4)