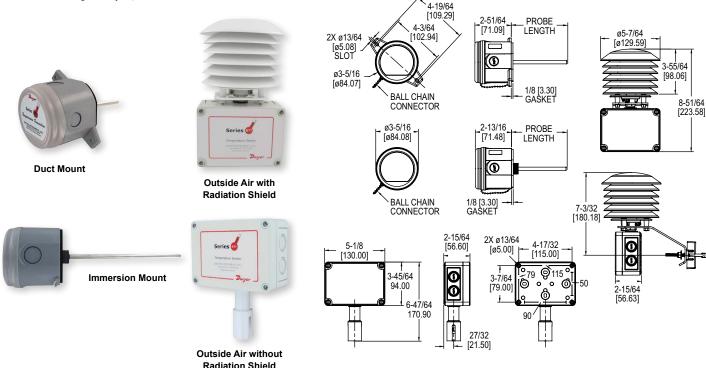
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TEMPERATURE TRANSMITTER

Current or Voltage Output, NEMA 4X Enclosures



The SERIES BTT Temperature Transmitter offers transmitter output signals with the same form and fit as our popular TE thermistor and RTD sensors for building HVAC applications. Thermowells are required when using immersion models in liquid applications.

FEATURES/BENEFITS

- · Duct, immersion, and outside air models available
- · Radiation shield available for mounting in direct sunlight
- · Transmitter output allows for longer wire runs than standard thermistor sensors

APPLICATIONS

• Building automation system temperature monitoring

MODEL CHART								
Example	BTT	-D	04	-1		BTT-D04-1		
Series	BTT					Temperature transmitter		
Mounting		D				Duct mount		
Configuration		I				Immersion mount		
		0				Outside air		
		R				Outside air with radiation shield		
Probe			25			2.5" (required for "O" and "R"		
Length*						models)		
			04			4"		
			06			6"		
			08			8"		
			12			12"		
			18			18″		
Output				1		4 to 20 mA		
				2		0 to 10 V		
Options					Blank	None		
					FC	Factory calibration certificate		
					NIST	NIST calibration certificate		
*For BTT-I models, actual probe length is approximately 0.75" longer than								
listed probe length to ensure maximum immersion into thermowells.								

SPECIFICATIONS

Temperature Sensor: Pt1000 RTD. Range: -40 to 140°F (-40 to 60°C).

Temperature Limits: -40 to 140°F (-40 to 60°C).

Accuracy: ±0.5°C @ 25°C. Thermal Effect: ±0.01%/°C. Response Time: 100 ms.

Wetted Materials: All models: 304 SS (probe), polycarbonate (housing); Duct and immersion models: Neoprene (gasket); Outside air models: Nylon (insert), silocone

Process Connection: 1/2" NPT (immersion models only).

Electrical Connection: Removable terminal block, knocks out for conduit fitting.

Conduit Connection: 1/2" NPT.

Probe Lengths: 2.5 to 18" (depending on configuration).

Power Requirements: 13 to 36 VDC for current models, 13 to 36 VDC or 16 to 28

VAC for voltage models.

Output Signal: 4 to 20 mA or 0 to 10 VDC (depending on model).

Enclosure Rating: NEMA 4X (IP66) (immersions models require thermowell). Weight: 5.11 oz (145 g) (duct/immersion); 8.4 oz (238 g) (OSA without radiation

shield); 1 lb 7.4 oz (663.4 g) (OSA with radiation shield).

Agency Approvals: CE.

THERMOWELLS - WELDED									
		Connection	Insertion						
Model	Material	(Internal/External)	Length						
TE-TNS-N253N-00	304 SS	1/2" NPSM/1/2" NPT	2.5"						
TE-TNS-N043N-00	304 SS	1/2" NPSM/1/2" NPT	4"						
TE-TNS-N063N-00	304 SS	1/2" NPSM/1/2" NPT	6″						
TE-TNS-N083N-00	304 SS	1/2" NPSM/1/2" NPT	8″						
TE-TNS-N123N-00	304 SS	1/2" NPSM/1/2" NPT	12"						
TE-TNS-N183N-00	304 SS	1/2" NPSM/1/2" NPT	18″						