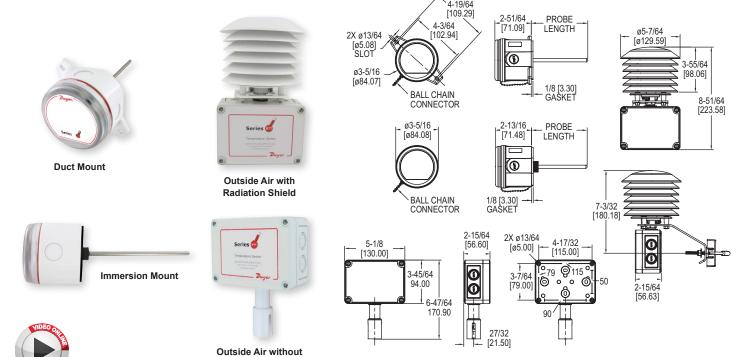


TEMPERATURE TRANSMITTERS

Current or Voltage Output, NEMA 4X Enclosures





The Series BTT Temperature Transmitters offer 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.

Radiation Shield

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		1				Immersion mount			
		0				Outside air			
		R				Outside air with radiation shield			
Probe			25			2.5" (required for "O" and "R" models)			
Length*			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 mode	*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: Operating: -40 to 302°F (-40 to 150°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″						