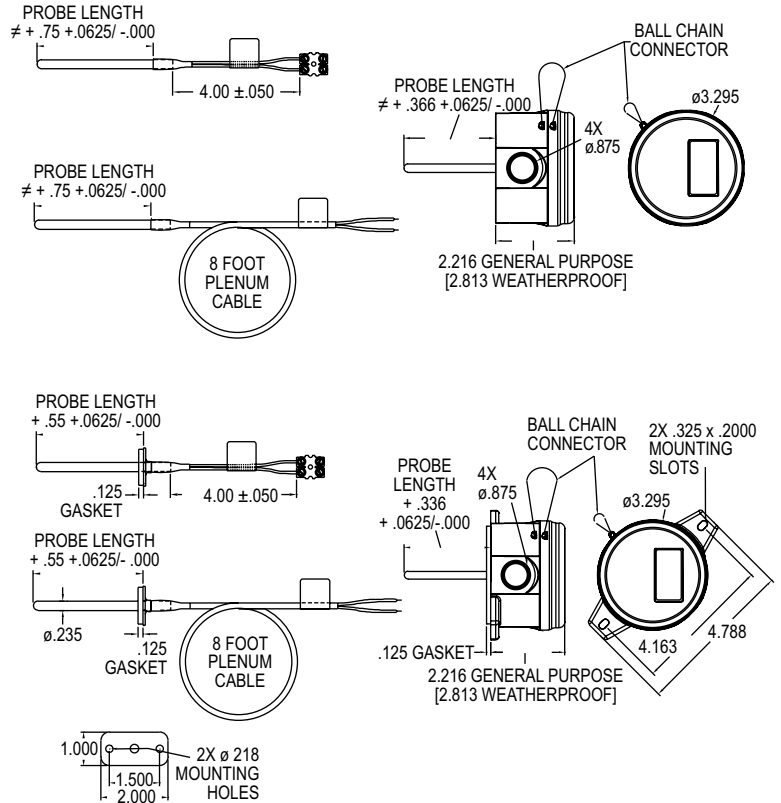
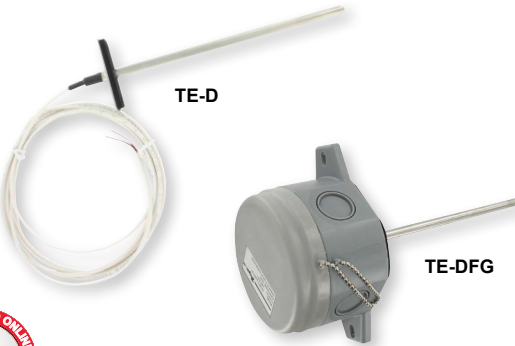
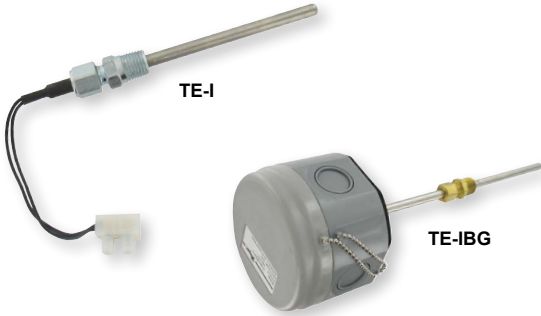


DUCT AND IMMERSION BUILDING AUTOMATION TEMPERATURE SENSORS

Available up to 18" Probe Length, Thermistor or RTD Outputs



The **SERIES TE** Duct and Immersion Temperature Sensor can be used to monitor air or water temperature throughout a building management system or an air handler unit. Duct or immersion options available with or without an enclosure.

FEATURES/BENEFITS

- Easy to mount external tab housing and flange options for duct applications
- 1/4 turn housing cover with chain to prevent dropping
- Multiple conduit knockouts for easy installation positioning
- 8' plenum rated cable option
- Terminal connector eliminates need for wire nuts

APPLICATIONS

- Building automation
- VAV temperature sensing
- Chiller or boiler loops
- AHU monitoring

SPECIFICATIONS

Accuracy: Thermistor temperature sensor: $\pm 0.22^\circ\text{C}$ @ 25°C ($\pm 0.4^\circ\text{F}$ @ 77°F); RTD temperature sensor: DIN class A: $\pm 0.15^\circ\text{C}$ @ 0°C ($\pm 0.28^\circ\text{F}$ @ 32°F).
Temperature Limits: Operating: -40 to 302°F (-40 to 150°C).
Sensor Curves: See page reference **1** below.
Cable Rating: Plenum option includes UL listed plenum cable.
Housing Material: Meets UL, 94 V-O polycarbonate plastic.
Housing Rating: NEMA 4X (IP66) (DFW, IBW only).
Weight: 5.3 oz (150.3 g).
Warranty: 5 year limited warranty.

| MODEL CHART | | | | | | | | | |
|------------------------|-----|------|----|----|---|---|--------------------|---|--|
| Example | TE | -DFN | -A | 04 | 4 | 8 | -00 | TE-DFN-A0448-00 | |
| Series | TE | | | | | | | Temperature sensor | |
| Mounting Configuration | DFN | | | | | | | Duct mount probe only | |
| | DFG | | | | | | | Duct mount probe in general purpose housing | |
| | DFW | | | | | | | Duct mount probe in NEMA 4X housing | |
| | IBN | | | | | | | Immersion probe only | |
| | IBG | | | | | | | Immersion probe in general purpose housing | |
| Sensor Type | | | A | | | | | 10k Ω type III thermistor | |
| | | | B | | | | | 10k Ω type II thermistor | |
| | | | C | | | | | 3k Ω thermistor | |
| | | | D | | | | | Pt100 Ω RTD | |
| | | | E | | | | | Pt1000 Ω RTD | |
| | | | F | | | | | 20k Ω thermistor | |
| Probe Length | | | | 25 | | | | 2.5" | |
| | | | | 04 | | | | 4" | |
| | | | | 06 | | | | 6" | |
| | | | | 08 | | | | 8" | |
| | | | | 12 | | | | 12" | |
| | | | 18 | | | | 18" (DFN/DFG only) | | |
| Probe Diameter | | | | | 4 | | | 1/4" | |
| Termination | | | | | | 3 | | 4" leads with spade connectors | |
| | | | | | | 4 | | 4" leads | |
| | | | | | | 7 | | 8' plenum rated cable with spade connectors | |
| | | | | | | 8 | | 8' plenum rated cable | |
| Fittings | | | | | | | 00 | None (probe only) | |
| | | | | | | | 12 | 1/2" NPT compression fitting | |
| | | | | | | | 14 | 1/4" NPT compression fitting | |

| THERMOWELLS - MACHINED | | | |
|------------------------|----------|--------|--------------------------------------|
| Model | Material | Length | Connection (Internal/External) (NPT) |
| TE-TNS-N044N-14 | 304 SS | 4" | 1/4" / 1/2" |
| TE-TNS-N044N-12 | 304 SS | 4" | 1/2" / 3/4" |
| TE-TNS-N064N-14 | 304 SS | 6" | 1/4" / 1/2" |
| TE-TNS-N064N-12 | 304 SS | 6" | 1/2" / 3/4" |
| TE-TNS-N094N-14 | 304 SS | 9" | 1/4" / 1/2" |
| TE-TNS-N094N-12 | 304 SS | 9" | 1/2" / 3/4" |
| TE-TNS-N124N-14 | 304 SS | 12" | 1/4" / 1/2" |
| TE-TNS-N124N-12 | 304 SS | 12" | 1/2" / 3/4" |



Machined Thermowell

For Straight Thermowell Dimensions: See page 151 (Series W)
 ●Resistance vs. Temperature Table: See page 156 (Series TE-OND/RND/OSA)