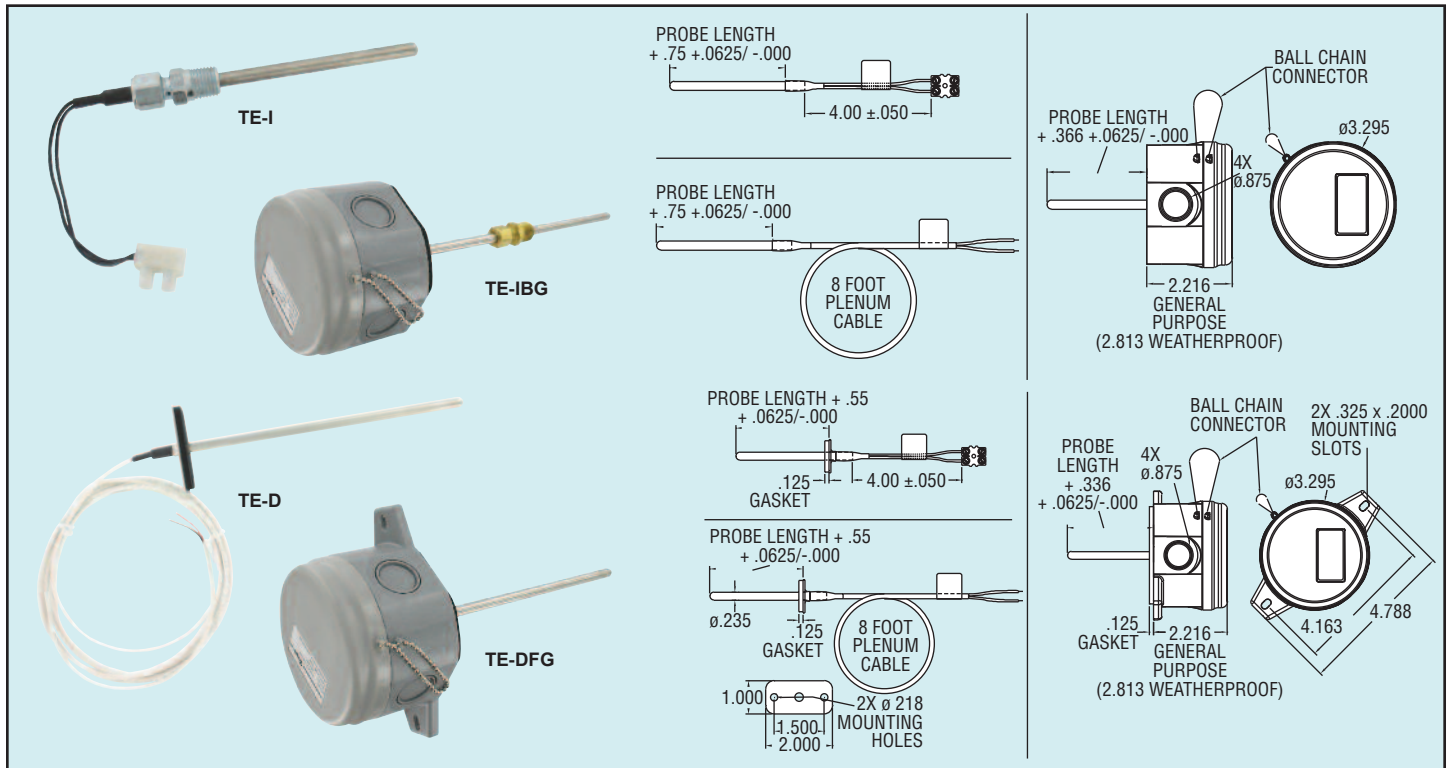




Series
TE

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. Flanged duct sensors monitor the supply or return air and provide a thermistor or RTD output to the digital controller. Immersion sensors which are supplied with compression fittings are typically used to monitor the hot or chilled water lines throughout a building. Thermowells are recommended, but not required on the immersion sensors. For variable air volume applications, the Series TE can be configured to have 8 plenum rated cable with flying leads. Standard units come with 4" leads with an integral terminal block to eliminate carrying extra wire nuts. For housing models, multiple knockouts provide easy conduit access to any side of the housing. The 1/4 turn lid comes with a chain to prevent it from being lost during installation.

SPECIFICATIONS

Accuracy:

Thermistor temperature sensor: $\pm 0.2^{\circ}\text{C}$ @ 25°C ($\pm 0.36^{\circ}\text{F}$ @ 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 Resistance vs. Temperature Table.

Cable Rating: Plenum option includes UL listed plenum cable.

Housing Material: Meets UL, 94 V-0 polycarbonate plastic.

Housing Rating: NEMA 4X (IP66) (DFW, IBW only).

Weight: 5.3 oz (150.3 g).

| | | | | | | | |
|-------------------------------|--------|----|----|---|---|-----|---|
| 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 |
| | IBW | | | | | | Immersion Probe in NEMA 4X Housing |
| Sensor Type | | A | | | | | 10K Ohm Type III Thermistor |
| | | B | | | | | 10K Ohm Type II Thermistor |
| | | C | | | | | 3K Ohm Thermistor |
| | | D | | | | | Pt100 Ohm RTD |
| | | E | | | | | Pt1000 Ohm RTD |
| | | F | | | | | 20K Ohm 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 | | | | | 4 | | 4" leads |
| | | | | | 8 | | 8' Plenum Rated Cable |
| Thermowell Connection | | | | | | 00 | Probe only |
| | | | | | | 12 | 1/2" NPT Compression Fitting |
| | | | | | | 14 | 1/4" NPT Compression Fitting |

Thermowells

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

Note: R-T temperature curves are on page 299.

TEMPERATURE

Temperature Sensors