

IMMERSION TEMPERATURE SENSORS

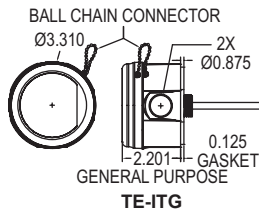
Integral Mounting Connection, Welded Thermowells



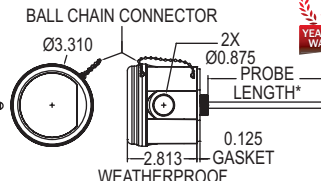
TE-ITG



TE-ITW



TE-ITG



TE-ITW



The **Series TE-I Immersion Style Temperature Sensors** accurately measure water temperature inside chilled and hot water loops in HVAC systems. Thermowells are required to protect the electrical connection from the process water and to allow replacement of the sensors without draining the system.

FEATURES/BENEFITS

- Integral 1/2" NPSM connection for direct mounting to a thermowell
- 1/4 turn housing cover with chain to prevent dropping
- Multiple conduit knockouts for easy installation positioning
- General purpose or weatherproof enclosure options
- Terminal connection eliminates need for wire nuts

APPLICATIONS

- Chiller or boiler loops
- Building automation

● Resistance vs. Temperature Table: See page 146 (Series TE-OND/RND/OSA)

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.
Housing Material: Meets UL, 94 V-0 polycarbonate plastic.
Thermowell Material: 304 SS.
Thermowell Connections: Internal = 1/2" NPSM; External = 1/2" NPT.
Weight: 5.3 oz (150.3 g).

| MODEL CHART | | | | | | | | |
|---|----|------|---------------------------------|----------------------------------|---|---|-----|--|
| Example | TE | -ITG | -A | 25 | 4 | 4 | -00 | TE-ITG-A2544-00 |
| Series | TE | | | | | | | Duct and immersion building automation temperature sensor |
| Mounting Configuration | | ITG | | | | | | Immersion in general purpose housing |
| | | ITW | | | | | | Immersion in NEMA 4X housing |
| Sensor Type | | | A B C D E F Q | | | | | 10k Ω type III thermistor 10k Ω type II thermistor 3k Ω thermistor Pt100 Ω RTD Pt1000 Ω RTD 20k Ω thermistor 10k Ω type III with 11k Ω shunt |
| Probe Length* | | | | 25 04 06 08 12 18 | | | | 2.5" 4" 6" 8" 12" 18" |
| Probe Diameter | | | | | 4 | | | 1/4" double encapsulated |
| Termination | | | | | | 4 | | 4" flying leads terminal block |
| Fittings | | | | | | | 00 | None (integral) |
| *Actual probe length is approximately 0.75" longer than listed probe length to ensure maximum immersion into thermowells. | | | | | | | | |