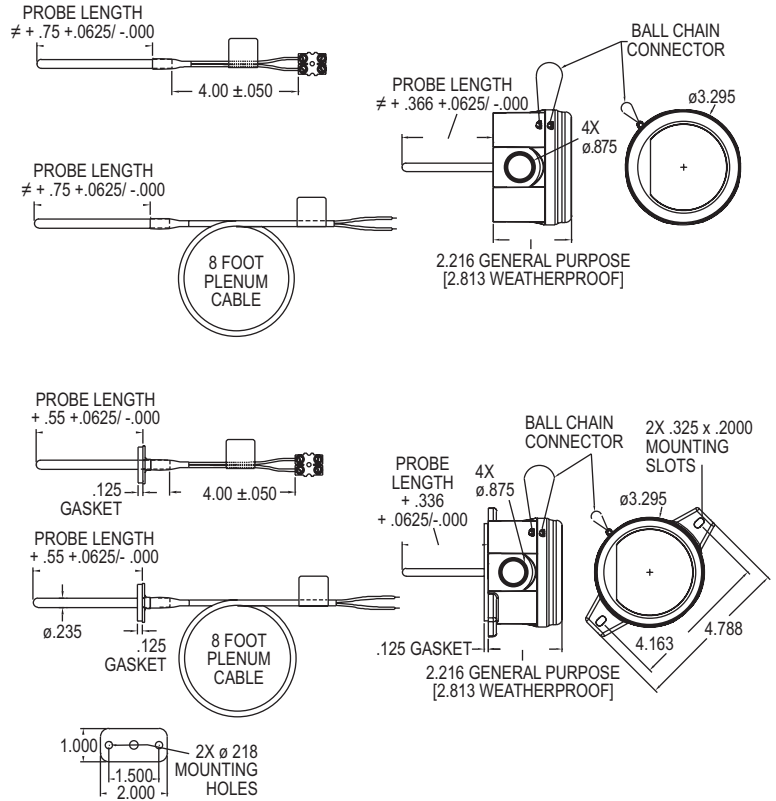
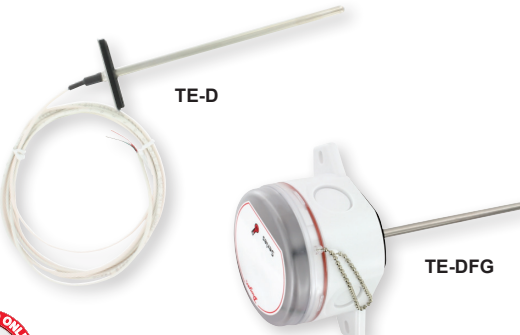


# DUCT AND IMMERSION BUILDING AUTOMATION TEMPERATURE SENSORS

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



Temperature Sensors

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:  $\pm 0.22^{\circ}\text{C}$  @  $25^{\circ}\text{C}$  ( $\pm 0.4^{\circ}\text{F}$  @  $77^{\circ}\text{F}$ ); RTD temperature sensor: DIN class A:  $\pm 0.15^{\circ}\text{C}$  @  $0^{\circ}\text{C}$  ( $\pm 0.28^{\circ}\text{F}$  @  $32^{\circ}\text{F}$ ).  
**Temperature Limits:** Operating:  $-40$  to  $302^{\circ}\text{F}$  ( $-40$  to  $150^{\circ}\text{C}$ ).  
**Sensor Curves:** See page reference 1 below.  
**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).  
**Agency Approvals:** Meets the technical requirements of EU Directive 2011/65/EU (RoHS II).

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	IBW							Immersion probe in NEMA 4X housing	
	A							10k $\Omega$ type III thermistor	
	B							10k $\Omega$ type II thermistor	
	C							3k $\Omega$ thermistor	
	D							Pt100 $\Omega$ RTD	
Probe Length	E							Pt1000 $\Omega$ RTD	
	F							20k $\Omega$ thermistor	
	G							10k $\Omega$ type III with 11k $\Omega$ shunt	
	H							2.5"	
	I							4"	
Probe Diameter	J							6"	
	K							8"	
	L							12"	
	M							18" (DFN/DFG only)	
	N							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)