User Selectable Ranges, Optional LCD Display





Shown with optional LCD display

The Series TTE Explosion-Proof RTD Temperature Transmitter is the ideal product for hazardous temperature measurement applications. The TTE series has seven preprogrammed temperature ranges that are selectable via an internal dip switch. For those applications that need a custom range, the transmitter can be easily configured for any range between -30 to 250°F with a minimum span of 40°F. The span and zero can be quickly adjusted with a simple push-button design. This unit has optional listings of FM for use in Class I, Division 1, Groups B, C and D, Class II, Division 1, Groups E, F and G and Class III atmospheres or ATEX (Directive 2014/34/EU) for C E IIIC T111°C Da (-20°C ≤ Ta ≤ + 70°C) and IECEx for Ex db IIC T6...T4 Gb (-20°C ≤ Ta \leq + 70°C), Ex ta IIIC T111°C Da (-20°C \leq Ta \leq + 70°C). The compact housing allows for the transmitter to be mounted in virtually any application.

BENEFITS/FEATURES

- FM approved for Class I, Groups B, C, D; Class II, Groups E, F, G classified explosive environments
- Optional LCD
- · Output span selected from seven common ranges or user determined

APPLICATIONS

Explosive process environments

Offshore HVAC monitoring

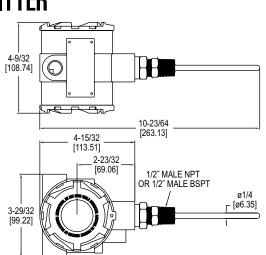
MODEL CHART							
TTE	-1	04	-W	-LCD	TTE-104-W-LCD		
TTE					Explosion-proof RTD temperature transmitter		
	1				FM*		
	2				ATEX/IECEx flameproof		
		02			2" probe		
		04			4" probe		
		06			6" probe		
		09			9″ probe		
		12			12" probe		
		15			15" probe		
		18			18" probe		
			W		Well probe		
				Blank	No LCD display		
				BSPT	1/2 male BSPT process connection		
				C5	C5-M housing paint specification		
				LCD	LCD display		
				M20	Female M20 thread electrical connection		
*Options that do not have ATEX and IECEx.							
	TTE	TTE -1 TTE 1 2	TTE -1 04 TTE 1 2 1 2 02 04 06 09 12 15 18 0 0 0 0 not have A 0	TTE -1 04 -W TTE 1 2 2 2 1 2 02 04 06 09 12 15 18 2	TTE -1 04 -W -LCD TTE 1 2 <td< th=""></td<>		

Attention: Units without the "2" suffix following "TTE" are not directive 2014/34/EU (ATEX) Complaint. These units are not intended for use in potentially hazardous atmospheres in the EU. These units may be CE marked for other directives of the EU

1	ACCES	ESSORIES							
I	Model	Description							
1	A-287	Mounting bracket for pipe or surface mounting (Includes bracket and two 2" U-bolts)							

THERMOWELLO MACHINER

Model	Material		Connection (Internal/External) (NPT)					
TE-TNS-N044N-12 TE-TNS-N064N-12 TE-TNS-N094N-12 TE-TNS-N124N-12	304 SS 304 SS	9″	1/2" / 3/4" 1/2" / 3/4" 1/2" / 3/4" 1/2" / 3/4"					



TEMPERATURE

2X 1/2" FEMALE NPT OR M20 -

SPECIFICATIONS

Temperature Sensor: Pt1000, 0.00385 DIN. Output Temperature Ranges: User selectable - any range between -30 to 250°F with a minimum span of 40°F. Temperature Limits: Ambient: -4 to 158°F (-20 to 70°C); Process: -30 to 250°F (-34.4 to 120°C). Accuracy: Transmitter ±0.1% FS; Probe ±0.3% FS. Thermal Drift Effects: ±0.02%/°C max. Response Time: 250 ms. Wetted Materials: 316 SS Process Connection: 1/2" male NPT or 1/2" male BSPT. Conduit Connection: 1/2" female NPT or M20. Probe Length: 2" to 18" (depending on model). Pressure Limits: 2000 psi (137.9 bar). Power Requirements: 10-35 VDC. Output Signal: 4-20 mA (2-wire loop powered). Optional Display: 2 lines X 8 character LCD. Enclosure Rating: Weatherproof NEMA 4X (IP66) and Explosion-proof. Listed with FM for Class I, Division 1, Groups B, C and D, and dust-ignitionproof for Class II, Division 1, Groups E, F and G and Class III atmospheres. ATEX Certified: (€ 2813 🚱 || 2 G Ex db ||C T6...T4 Gb, (€ 🚱 2813 || 1 D Ex ta IIIC T111°C Da, T6 Process Temp ≤80°C, Temperature Class T5 Process Temp ≤95°C, Temperature Class T4 Process Temp ≤120°C as defined on nameplate. EUtype Cerificate No.: EMT17ATEX0021 X. ATEX Standards: EN 60079-0:2012+A11:2013; EN 60079-1:2015; EN 60079-31:2014 IECEx Certified: For Ex db IIC T6 ... T4 Gb, Ex ta IIIC T111°C Da, T6 Process Temp ≤80°C, Temperature Class T5 Process Temp ≤95°C, Temperature Class T4 Process Temp ≤120°C as defined on nameplate. IECEx Certificate of Conformity: Element IECEx EMT 17.0007X; IECEx Standards: IEC 60079-0:2011 (Edition 6); IEC 60079-1:2014 (Edition 7); IEC 60079-31:2013 (Edition 2). Weight: 2 lb 8 oz (1134 g). Agency Approvals: FM, CE, ATEX/IECEx.

FIELD-SELECTABLE RANGES 40 to 90°F (4.4 to 32.2°C) -20 to 140°F (-28.9 to 60°C) 0 to 100°F (-17.8 to 37.8°C) 30 to 240°F (-1.1 to 115.6°C) 32 to 212°F (0 to 100°C) 32 to 122°F (0 to 50°C) -30 to 65°C (-1.1 to 18.3°C) Custom range between -30 to 250°F (-34.4 to 121.1°C)



Machined thermowell

OTechnical Specifications and Additional Thermowell Models: See page 145 (Series TE-TNS)