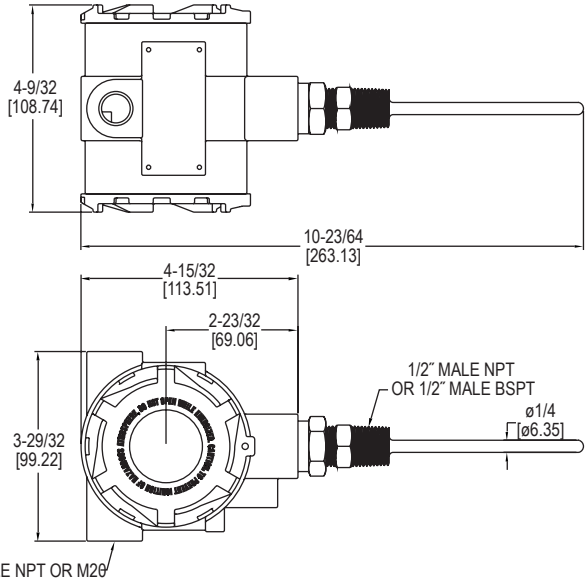




Series TTE Explosion-Proof RTD Temperature Transmitter

Specifications - Installation and Operating Instructions



The **SERIES TTE** Explosion-Proof RTD Temperature Transmitter is the ideal product for hazardous temperature measurement applications. The TTE series has seven pre-programmed 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 **CE** II 2 G Ex db IIC T6 Gb, **CE** II 1 D Ex ta IIIC T111°C Da and IECEx for Ex db IIC T6 Gb (-20°C < Ta < + 70°C), Ex ta IIIC T111°C Da (-20°C < Ta < + 70°C). The compact housing allows for the transmitter to be mounted in virtually any application.

The Series TTE is ideally suited for refrigeration, building automation, commercial hot water heaters and boilers, and water chillers applications.

MODEL CHART					
Example	TTE	1	04	W	LCD
Series	TTE				Explosion-proof RTD temperature transmitter, FM rated, 4" probe, with LCD display
Agency		1			Series TTE explosion-proof RTD temperature transmitter
Probe Length		2			FM* ATEX/IECEx flameproof
		02			2" probe
		04			4" probe
		06			6" probe
		09			9" probe
		12			12" probe
		15			15" probe
		18			18" probe
Construction				W	Well probe
Options					No LCD display
				Blank	1/2 male BSPT process connection
				BSPT	C5-M housing paint specification
				C5	LCD display
				LCD	LCD display
				M20	Female M20 thread electrical connection

\*Options that do not have ATEX and IECEx.  
Attention: Units without the "2" suffix following "TTE" are not directive 2014/34/EU (ATEX) Compliant. 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.

SPECIFICATIONS
<b>Temperature Sensor:</b> Pt1000, 0.00385 DIN.
<b>Output Temperature Ranges:</b> User selectable – any range between -30 to 250°F with a minimum span of 40°F.
<b>Temperature Limits:</b> Ambient: -4 to 158°F (-20 to 70°C); Process: -30 to 250°F (-34.4 to 120°C).
<b>Accuracy:</b> Transmitter ±0.1% FS; Probe ±0.3% FS.
<b>Thermal Drift Effects:</b> ±0.02%/°C max.
<b>Response Time:</b> 250 ms.
<b>Wetted Materials:</b> 316 stainless steel.
<b>Process Connection:</b> 1/2" male NPT or 1/2 male BSPT.
<b>Conduit Connection:</b> 1/2" female NPT or M20.
<b>Probe Length:</b> 2" to 18" (depending on model).
<b>Pressure Limits:</b> 2000 PSI.
<b>Power Requirements:</b> 10 to 35 VDC.
<b>Output Signal:</b> 4-20 mA (two wire loop powered).
<b>Optional Display:</b> 2 lines X 8 character LCD.
<b>Enclosure Rating:</b> Weatherproof 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.
<b>ATEX Certified:</b> <b>CE</b> 0518 II 2 G Ex db IIC, <b>CE</b> II 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. EU-type Certificate No.: EMT17ATEX0021 X.
<b>ATEX Standards:</b> EN 60079-0:2012+A11:2013; EN 60079-1:2015; EN 60079-31:2014.
<b>IECEx Certified:</b> For Ex db IIC T6 Gb, Ex ta IIIC T111°C Da, Process Temp ≤80°C, Temperature Class T5 Process Temp ≤95°C, Temperature Class T4 Process Temp ≤120°C as defined on nameplate.
<b>IECEx Certificate of Conformity:</b> 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).
<b>Weight:</b> 2 lb 8 oz (1134 g).
<b>Agency Approvals:</b> FM, CE, ATEX/IECEx.