EXPLOSION-PROOF RTD TEMPERATURE TRANSMITTER
User Selectable Ranges, 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 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 LCD display for the transmitter to be mounted in virtually any application.

FEATURES/BENEFITS
• Offshore HVAC monitoring
• Output span selected from seven common ranges or user determined
• FM approved for Class I, Groups B, C, D; Class II, Groups E, F, G and Class III atmospheres or ATEX (Directive 2014/34/EU) 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 LCD display for the transmitter to be mounted in virtually any application.

APPLICATIONS
• Explosive process environments
• Offshore HVAC monitoring

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 NEMA4X (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: IA0/21/314. 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 as defined on nameplate. EU-type Certificate No.: EMT17ATEX0021 X.
Weight: 2 lb 8 oz (1134 g).
Agency Approvals: FM, CE, ATEX/IECEx.

MODEL CHART

### Example | TTE-104-W-LCD | TTE-104-W-LCD
--- | --- | ---
Agency | T | TTE Explosion-proof RTD temperature transmitter
| Probe Length | 2” probe | 2" probe
| 4” probe | 4" probe
| 6” probe | 6" probe
| 9” probe | 9" probe
| 12” probe | 12" probe
| 15” probe | 15" probe
| 18” probe | 18" probe
| Construction | W | Well probe
| Options | No LCD display | No LCD display
| 1/2 male BSPT process connection | 1/2 male BSPT process connection
| C5-M housing paint specification | C5-M housing paint specification
| LCD display | LCD display
| M20 Female M20 thread electrical connection | 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) 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.

ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tr>
<td>A-287</td>
<td>Mounting bracket for pipe or surface mounting (includes bracket and two 2” U-bolts)</td>
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Machined thermowell

FIELD-SELECTABLE RANGES
-4 to 90°F (4.4 to 32.2°C)
-20 to 180°F (-28.9 to 82.2°C)
-0 to 200°F (-17.8 to 93.3°C)
30 to 240°F (-1.1 to 115.6°C)
32 to 212°F (0 to 100°C)
32 to 222°F (0 to 50°C)
-30 to 65°C (-1.1 to 185°C)

Custom range between -30 to 250°F (-34.4 to 121.1°C)

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