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 programmed temperature ranges that are selectable via an internal dip switch. 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 programmed temperature ranges that are selectable via an internal dip switch.

FEATURES/BENEFITS
• Offshore HVAC monitoring
• Explosive process environments
• FM approved for Class I, Groups B, C, D; Class II, Groups E, F, G classified explosive atmospheres.

APPLICATIONS
• Output span selected from seven common ranges or user determined
• Optional LCD display

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 stainless steel.
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.
Power Requirements: 10 to 35 VDC.
Output Signal: 4-20 mA (two wire loop powered).

Optional Display: 2 lines X 8 character LCD.

Enclosure Rating: Weatherproof and Explosion-proof. Listed with FM for Class I, Division 1, Groups B, C and D, and dust-ignition proof for Class II, Division 1, Groups E, F and G and Class III atmospheres.

IECEx Certified: For Ex db IIC T6...T4 Gb, Ta 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.: EMT17ATEX0012X.

IECEx Certificate of Conformity: Element IECEx EMT 17.0007X.


Weight: 2 lb 8 oz (1134 g).
Agency Approvals: FM, CE, ATEX/IECEx.

ACCESSORIES
Model | Description
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A-287 | Mounting bracket for pipe or surface mounting (includes bracket and two 2” U-bolts)

Machined Thermowell

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 183°C)
Custom range between -30 to 250°F (-34.4 to 121.1°C).

Model | Material | Length | Connection (Internal/External) (NPT)
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TE-TNS-N044N-12 | 304 SS | 4” | 1/2” / 3/4”
TE-TNS-N064N-12 | 304 SS | 6” | 1/2” / 3/4”
TE-TNS-N094N-12 | 304 SS | 9” | 1/2” / 3/4”
TE-TNS-N124N-12 | 304 SS | 12” | 1/2” / 3/4”