**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 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 programming temperature ranges that are selectable via an internal dip switch.  

**APPLICATIONS**

- Explosive process environments
- Offshore HVAC monitoring
- Wetted Materials: 316 SS.
- Temperature Limits: Ambient: -4 to 158°F (-20 to 70°C); Process: -30 to 250°F (-34.4 to 121.1°C).
- Thermal Drift Effects: ±0.02%/°C max.
- Response Time: 250 ms.
- 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.

**FEATURES/BENEFITS**

- FM approved for Class I, Groups B, C, and D; Class II, Groups E, F and G and Class III atmospheres or ATEX (Directive 2014/34/EU) for 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
- ATEX Certified: IECEx Certificate of Conformity: EMT17ATEX0021 X.
- 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.
- Response Time: 250 ms.
- Temperature Limits: Ambient: -4 to 158°F (-20 to 70°C); Process: -30 to 250°F (-34.4 to 121.1°C).
- 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.

**MACHINING SPECIFICATIONS**

- Model: TE-TNS-N124N-12
- Material: 304 SS
- Length: 12˝
- Machined thermowell

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Material</th>
<th>Length</th>
<th>Connection (Internal/External) (NPT)</th>
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<tbody>
<tr>
<td>TE-TNS-N044N-12</td>
<td>SS</td>
<td>4˝</td>
<td>1/2˝ / 3/4˝</td>
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<tr>
<td>TE-TNS-N064N-12</td>
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<td>1/2˝ / 3/4˝</td>
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<td>TE-TNS-N094N-12</td>
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<td>1/2˝ / 3/4˝</td>
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<tr>
<td>TE-TNS-N124N-12</td>
<td>SS</td>
<td>12˝</td>
<td>1/2˝ / 3/4˝</td>
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</tbody>
</table>

**FIELD-SELECTABLE RANGES**

- 40 to 90°F (4.4 to 32.2°C)
- -20 to 140°F (-28.9 to 60.0°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)

**ACCESSORIES**

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