**DUCT AND IMMERSION BUILDING AUTOMATION TEMPERATURE SENSORS**

Available up to 18” Probe Length, Thermistor or RTD Outputs

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**FEATURES/BENEFITS**
- Easy to mount external tab housing and flange options for duct applications
- 1/4 turn housing cover with chain to prevent dropping
- Multiple conduit knockouts for easy installation positioning
- 8’ plenum rated cable option
- Terminal connector eliminates need for wire nuts

**APPLICATIONS**
- Building automation
- VAV temperature sensing
- Chiller or boiler loops
- AHU monitoring

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**SPECIFICATIONS**

- **Accuracy:** Thermistor temperature sensor: ±0.22°C @ 25°C (±0.4°F @ 77°F); RTD temperature sensor: DIN class A: ±0.15°C @ 0°C (±0.28°F @ 32°F).
- **Temperature Limits:** Operating: -40 to 302°F (-40 to 150°C).
- **Sensor Curves:** See page reference below.
- **Cable Rating:** Plenum option includes UL listed plenum cable.
- **Housing Material:** Meets UL, 94 V-0 polycarbonate plastic.
- **Housing Rating:** NEMA 4X (IP66) (DFW, IBW only).
- **Weight:** 5.3 oz (150.3 g).
- **Agency Approvals:** Meets the technical requirements of EU Directive 2011/65/EU (RoHS II).

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**MODEL CHART**

<table>
<thead>
<tr>
<th>Example</th>
<th>TE</th>
<th>-DFN</th>
<th>-A</th>
<th>04</th>
<th>08</th>
<th>-00</th>
<th>TE-DFN-A0448-00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td><strong>Te</strong></td>
<td><strong>Mounting Configuration</strong></td>
<td><strong>DFN</strong></td>
<td><strong>DFW</strong></td>
<td><strong>DFW</strong></td>
<td><strong>IBG</strong></td>
<td><strong>IBG</strong></td>
</tr>
<tr>
<td><strong>Sensor Type</strong></td>
<td><strong>Duct mount probe only</strong></td>
<td><strong>Duct mount probe in general purpose housing</strong></td>
<td><strong>Duct mount probe in NEMA 4X housing</strong></td>
<td><strong>Immersion probe only</strong></td>
<td><strong>Immersion probe in general purpose housing</strong></td>
<td><strong>Immersion probe in NEMA 4X housing</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Probe Length</strong></td>
<td><strong>25</strong></td>
<td><strong>10k Ω type III thermistor</strong></td>
<td><strong>10k Ω type II thermistor</strong></td>
<td><strong>3k Ω thermistor</strong></td>
<td><strong>PT100 Ω RTD</strong></td>
<td><strong>PT1000 Ω RTD</strong></td>
<td><strong>20k Ω thermistor</strong></td>
</tr>
<tr>
<td><strong>Probe Diameter</strong></td>
<td><strong>4”</strong></td>
<td><strong>4” double encapsulated</strong></td>
<td><strong>4” leads with spade connectors</strong></td>
<td><strong>4” leads</strong></td>
<td><strong>8’ plenum rated cable with spade connectors</strong></td>
<td><strong>8’ plenum rated cable</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Termination</strong></td>
<td><strong>4” leads</strong></td>
<td><strong>8’ plenum rated cable</strong></td>
<td><strong>None (probe only)</strong></td>
<td><strong>1/2” NPT compression fitting</strong></td>
<td><strong>1/4” NPT compression fitting</strong></td>
<td><strong>None (probe only)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fittings</strong></td>
<td><strong>None (probe only)</strong></td>
<td><strong>1/2” NPT compression fitting</strong></td>
<td><strong>1/4” NPT compression fitting</strong></td>
<td><strong>None (probe only)</strong></td>
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<td><strong>None (probe only)</strong></td>
<td></td>
</tr>
</tbody>
</table>

Resistance vs. Temperature Table: See page 162 (Series TE-OND/RND/OSA)