Temperature Sensors

**Air/Duct Temperature Sensors**

**SPECIFICATIONS**

- **Accuracy:**
  - Platinum RTD: ±0.6% @ 32°F (0°C);
  - Nickel RTD: ±0.5°F @ 32°F (0°C);
  - Balco RTD: ±0.1% @ 32°F (0°C);
- **Operating Temperature:** -32 to 240°F (-35.5 to 115.5 °C).
- **Probe Diameter:** 1/4” (6.3 mm).
- **Cable Length:** 8’ (housing models only).
- **Probe Material:** 304 SS.

**Model Coding**

- **Installation:**
  1. Flange mount
  2. Flange mount
  5. Flange mount with NEMA 4X housing
- **Sensor Type:**
  1. Pt 100 Ω RTD
  2. Pt 1000 Ω RTD
  3. Ni 1000 Ω RTD
  4. 1000Ω Balco RTD
  5. 10 kΩ Type 2 NTC Thermistor
  6. 3 kΩ NTC Thermistor
  7. 5 kΩ NTC Thermistor
  8. 100 kΩ NTC Thermistor
  9. 20 kΩ NTC Thermistor
  A. 2252 Ω NTC Thermistor
  B. 10 K Type 3 NTC Thermistor
- **Probe Length:**
  04 - 4˝ (100 mm)
  06 - 6˝ (150 mm)
  08 - 8˝ (200 mm)
  12 - 12˝ (300 mm)

**Air/Duct Temperature Sensors**

- **Model O-45:**
  - Flange mount sensors offer low profile mounting and quick installation directly into duct work. Rugged air/duct sensors are ideal for air handlers, fan coil units, ducts, furnaces, freezers, ovens and other through wall temperature sensing applications.

**Model O-45 Specifications**

- **Probe Length**:
  - 04 - 4˝ (100 mm)
  - 06 - 6˝ (150 mm)
  - 08 - 8˝ (200 mm)
  - 12 - 12˝ (300 mm)

**Model O-45 Model Coding**

<table>
<thead>
<tr>
<th>Model</th>
<th>Sensor Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-4A</td>
<td>10K Ohm Type III Thermistor</td>
</tr>
<tr>
<td>O-4B</td>
<td>10K Ohm Type II Thermistor</td>
</tr>
<tr>
<td>O-4C</td>
<td>3K Ohm Thermistor</td>
</tr>
<tr>
<td>O-4D</td>
<td>Pt100 Ohm RTD</td>
</tr>
<tr>
<td>O-4E</td>
<td>Pt1000 Ohm RTD</td>
</tr>
<tr>
<td>O-4F</td>
<td>20K Ohm Thermistor</td>
</tr>
</tbody>
</table>

**Outside Air Temperature Sensors**

**NEMA 4X, Removable Terminal Block**

The Model O-45 Outside Air Temperature Sensors are great for monitoring ambient air temperatures in outdoor applications. The temperature sensors are mounted in a NEMA 4X enclosure with integral mounting tabs. The mounting tabs can be used to surface or suspension mount the temperature sensors. The removable terminal block makes installation easy. The Model O-45 can be used to measure outside air temperatures in building automation systems or room temperatures inside agricultural ventilation houses.

**Model O-45 Specifications**

- **Accuracy:** Thermostat temperature sensor: ±0.22°C @ 25°C (±0.4°F @ 77°F);
- **RTD** temperature sensor: DIN class B: ±0.3°C @ 0°C (±0.54°F @ 32°F).
- **Operating Temperature:** -40 to 250°F.
- **Probe Diameter:** 0.235˝ (5.97 mm).
- **Probe Length:** 3.5˝.
- **Probe Material:** 304 SS.
- **Mounting:** Suspension or surface.
- **Enclosure Rating:** NEMA 4X (IP66).
- **Weight:** 3 oz (85 g).