**Specifications**

**Input Power**
NEC Class 2, 18-32 Vac 50/60Hz, 24 Vac nominal, 1 VA max

**Size**
2.8 x 4.5 x 1.2 in. (71.1 x 114.3 x 278 mm) including button heights

**Mounting**
Vertically flush mount or mount on standard vertical 2 x 4 in. (50.8 x 101.6 mm) device box

**Communication Jack**
Accessible through bottom of cover

**Environmental**
*Operational*: Temperature range 32 to 120°F (0 to 49°C)
*Humidity*: 5 to 95% non-condensing
*Storage*: Temperature range -4 to 130°F (-20 to 54°C)

**Wiring Diagram**

6. Sensor must be connected to a UCM and powered up for at least 1 hour to achieve maximum accuracy.
7. “Sensor Setpoint” output cannot be verified with an ohm meter. Connection to a UCM is necessary to verify operation.
8. Plug holes through the wall behind the sensor to prevent undesirable airflow.

**Installation Instructions**

1. **Choose mounting location.** Choose a spot on an interior wall near the return air grille about five feet above the floor. Air should circulate freely and be of average temperature for the zone. Avoid areas such as:
   - behind doors.
   - on outside walls or walls facing uncontrolled areas.
   - in direct sunlight or near sources of radiant heat that could affect temperature measurement.
   - in-line with discharge air from unit being controlled.

2. **Remove cover.** Remove zone sensor cover by easing the tip of a small screwdriver into the top rear center slot closest to the wall. Gently move the top of the screwdriver towards you. Excessive force is not recommended for cover removal!

3. **Mount base.** Remove zone sensor cover from base and mount base on wall or 2 x 4 device box.

4. **Connect wires.** Connect wires as shown in the wiring diagram. For wire lengths less than 75 feet, an 18 gage, 5 or 6 conductor cable may be used. For wire lengths greater than 75 feet, use 18 gage, 2-conductor cable for the power wiring (TB1), and 18 gage, 3 conductor cable for signal wiring (TB2). Avoid routing wires near sources of electrical noise such as motors, fluorescent lights, LAN wiring, etc. In some high noise environments, signal wires may require shielding. The communication jack should be wired with the cable appropriate for the system being installed.

5. **Replace Cover.** Place zone sensor cover back on the base and mount base on wall or 2 x 4 device box.

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**WARNING**

**Hazardous Voltage!**
Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Failure to disconnect power before servicing could result in death or serious injury.
Operating Instructions

Idle Display
• No action
  ♦ Continuously displays the current zone temperature or setpoint

Change Setpoint
• Repeatedly press UP or DOWN arrow button
  ♦ SETPOINT flashes
  ♦ Display increases or decreases
  ♦ Release and system returns to the idle display

Begin Timed Override
• Press and hold the ON button until OVERRIDE appears
  ♦ Timed override begins
  ♦ System shows the idle display and OVERRIDE

Cancel Timed Override
• Hold CANCEL button until OVERRIDE disappears
  ♦ Timed override is cancelled
  ♦ System returns to the idle display

Service Instructions

Balancing Functions:
The * and ** functions allow balancing functionality at the zone sensor. See table below:

<table>
<thead>
<tr>
<th>Engage Function</th>
<th>Disengage Function</th>
<th>Display Shows</th>
<th>Override Function Depends on Controller Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press “ON” and “UP” simultaneously until screen goes blank</td>
<td>Press “UP” or “DOWN” until normal display returns</td>
<td>*</td>
<td>Drive air valve to maximum primary airflow</td>
</tr>
<tr>
<td>Press “ON” and “DOWN” simultaneously until screen goes blank</td>
<td>Press “UP” or “DOWN” until normal display returns</td>
<td>**</td>
<td>Drive unit to unoccupied (Both flow and temperature setpoints)</td>
</tr>
<tr>
<td>Hold UP and DOWN arrow buttons until screen goes blank</td>
<td></td>
<td></td>
<td>Drive air valve to maximum primary airflow</td>
</tr>
<tr>
<td>Release buttons</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display shows °F and °C (current unit flashing)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Press UP or DOWN button to select °F and °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selected unit begins flashing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System returns to the idle display</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Change display units (°F or °C)
• Hold UP and DOWN arrow buttons until screen goes blank
• Release buttons
  ♦ Display shows °F and °C (current unit flashing)
  ♦ Press UP or DOWN arrow button to select °F and °C
  ♦ Selected unit begins flashing
  ♦ System returns to the idle display

Adjust the setpoint offset (con’t.)
• Release buttons
  ♦ Displays °F or °C (not flashing)
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ Display shows the setpoint adjust mode
  ♦ Hold UP and DOWN arrow buttons
  ♦ Setpoint offset value changes
  ♦ System returns to the idle display

Change idle display from room temperature display to continuous setpoint display mode
• Hold UP and DOWN arrow buttons until screen goes blank
• Release buttons
  ♦ Display shows °F and °C (current unit flashing)
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ Displays °F or °C (not flashing)
  ♦ Press UP or DOWN arrow buttons
  ♦ SETPOINT flashes
  ♦ Display times out and returns in the continuous setpoint display mode

Adjust the room temperature display offset
• Hold UP and DOWN arrow buttons until screen goes blank
• Release buttons
  ♦ Display shows °F and °C (current unit flashing)
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ Displays °F or °C (not flashing)
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ SETPOINT flashes
  ♦ Display shows the setpoint adjust mode
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ Display shows temperature offset display
  ♦ Press UP or DOWN arrow button
  ♦ Temperature offset value changes
  ♦ System returns to the current display mode

Adjust the setpoint offset (con’t., next column)
• Hold UP and DOWN arrow buttons until screen goes blank
• Release buttons
  ♦ Display shows °F and °C (current unit flashing)
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ Displays °F or °C (not flashing)
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ SETPOINT flashes
  ♦ Display shows the setpoint adjust mode
  ♦ Hold UP and DOWN arrow buttons until screen goes blank
  ♦ Release buttons
  ♦ Display shows temperature offset display
  ♦ Press UP or DOWN arrow button
  ♦ Temperature offset value changes
  ♦ System returns to the current display mode

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. Only qualified technicians should perform the installation and servicing of equipment referred to in this publication.