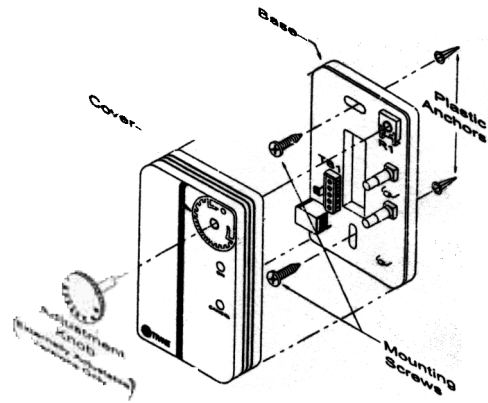


SP155-035 Installation Instructions

Wall-Mounted Temperature Sensor Direct Digital Controls



Location

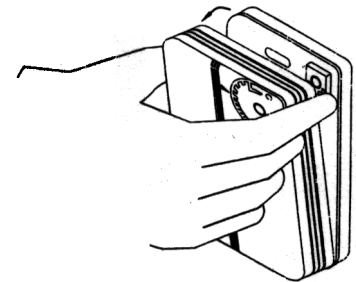
Proper location of the temperature sensor is crucial to maintain occupant comfort. Generally, the sensor should be placed in the most critical area of the zone where there is free circulation of air. It should be mounted on a flat interior surface, approximately 54" from the floor

Avoid locating the sensor:

- where direct sunlight may fall on or near it;
- in areas blanketed by air from diffusers;
- on surfaces having an uncooled or unheated area behind them, such as an outside wall or the wall of an unoccupied storeroom;
- near sources of heat, such as radiant heat from the sun, heat from appliances, or heat from concealed pipes or chimneys;
- in areas subject to drafts;
- in "dead" spots behind doors, draperies, or in corners.

Mounting

The temperature sensor consists of three basic parts: the base, the cover, and the adjustment knob (externally adjustable versions only). To remove the cover, first note the position of the adjustment knob (if present), then pull the knob out of the cover. The blade of a small screwdriver may be inserted behind the knob to gently pry it from the cover. Once the knob is removed, grasp the cover near the top and pull it away from the base (as illustrated at right).



To replace the cover, align the cover with the sides of the base and press the cover directly toward the wall until it snaps into place. To replace the adjustment knob, align the knob to the position noted prior to its removal and push the stem through the cover hole until the stem seats firmly in setpoint potentiometer VR3. Turn the knob to ensure that it rotates freely through the entire range of Temperature settings.

To Mount Directly to a Wall:

With the cover removed, feed the controller wires through the base's rectangular opening and position the back of the base over the wire entry in the wall. Ensure that the base is level. Mark the centers of the two oblong mounting holes, then lay the base aside. At each of the marked locations, drill a 3/16" diameter hole approximately 1" deep and insert the plastic anchors. Fully seat the anchors. Feed the controller wires through the base, then fasten the base to the wall with the supplied mounting screws. Connect the controller wires to TB1 on the temperature sensor per the equipment wiring diagram and replace the cover. For reference, a schematic of the temperature sensor is provided on the back of this installation sheet.

To Mount to a Junction Box:

To secure the temperature sensor directly to a vertical junction box, remove the sensors cover as described above. Feed the controller wires through the rectangular opening in the sensors base and then fasten the base to the the junction box's threaded mounting holes with two #6-32 screws. Connect the controller wires to TB1 on the temperature sensor per the equipment wiring diagram and replace the cover. For reference, a schematic of the temperature sensor is provided on the back of this installation sheet.

**Schematic of the Wall-Mounted
Temperature Sensor for Direct Digital Controls**

