

# T-OTS OUTDOOR SENSOR

## (USE WITH UT32 THERMOSTATS)

### APPLICATION

The T-OTS Outdoor Temperature Sensor is used with the UT32 thermostat. The sensor can be used for outdoor temperature display, or as a balance point changeover sensor for dual fuel and heat pump applications.

### SPECIFICATIONS

**Operating Ambient Temperature Range:**  
-40 to 140° F

**Operating Relative Humidity:**  
5% to 95% RH (non-condensing)

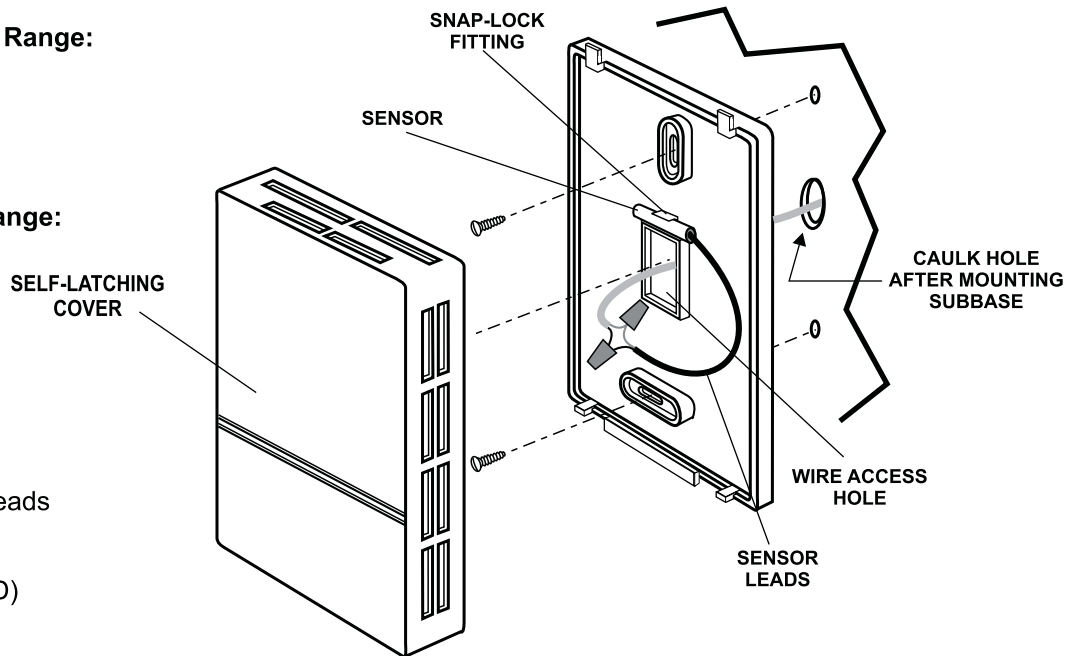
**Outdoor Temperature Display Range:**  
-20 to 140° F

**Sensor Type:**  
NTC Type 2, 10KΩ @ 77° F

**Sensor Accuracy:**  
+/- 3% @ 77° F

**Sensor Probe:**  
Waterproof encapsulation with 8" leads

**Enclosure Dimensions:**  
4.562" x 2.812" x 0.875" (H x W x D)



### **IMPORTANT**

1. Keep wiring at least one foot away from large inductive loads such as motors, line starters, lighting ballasts and large power distribution panels.
2. Use shielded cable to reduce interference when possible.
3. Use a separate 18-2 cable when wiring sensor to the thermostat.
4. Do not route sensor cable with line voltage power wires or near control contactors, light dimming circuits, electric motors or welding equipment.
5. Make sure that all wiring connections are secure.
6. Wiring must be in compliance with all applicable codes.

### LOCATION AND INSTALLATION

1. The sensor should be located in a tamper resistant area, such as underneath a roof overhang that provides proper outdoor ambient air circulation.
2. Do not mount the sensor in direct sunlight, near exhaust vents, or where it can be subjected to snow, ice or debris.
3. The sensor can be mounted on either a flat vertical or horizontal surface that best suites the wire routing.
4. Remove the cover from the subbase and disconnect the sensor from the snap-lock fitting.
5. Pull the sensor cable through the wire access hole on the subbase and mark the mounting screw locations.
6. Use appropriate mounting hardware for the type of exterior structure and secure the subbase.
7. Wire nut and tape the sensor leads to the sensor cable and press the sensor back into the snap-lock fitting.
8. Use a non-hardening caulk or putty to seal the wire access hole.
9. Replace the sensor cover.
10. Refer to UT32 thermostat installation manual for outdoor sensor wiring and installer setup options.