English: Remote Sensor – Model 43658

SPECIFICATIONS

- Remote temperature sensor
- 2 wire connection, no separate power supply needed
- Measurement range: 15˚F to 99˚F (-9˚C to 37˚C)
- Accuracy: +/- 1˚F (+/- 0.5˚C)
- Maximum connection distance: 328 ft. (100 m) with 20 gauge 2-conductor shielded wire
- Polarity MUST be maintained between sensor and thermostat

INDOOR USE ONLY

For use with these Climate Technology Thermostat Models ONLY: 43058, 43558

INSTALLATION

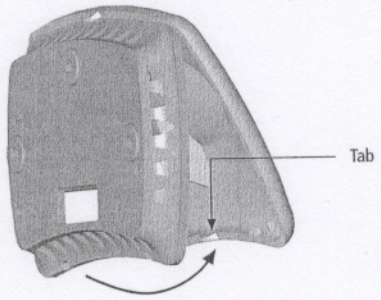
NOTE: *Turn off power to the system before starting the installation.*

All wiring should conform to national and local electrical codes.

Refer to the Climate Technology thermostat instructions for details on wiring the thermostat. Follow the instructions in Step 4 below when connecting the sensor wires to the terminals on the thermostat.

1. Location: Mount sensor 5 feet from the floor on an inside wall only. Do not locate the sensor where it is affected by strong drafts from door or ducts, or from direct sunlight or other heat generating sources.
2. Using the tabs on the back of the front cover, pop the cover plate off the unit. (Figure 1) Label the 2 sensor wires from the thermostat with the included wire labels, being sure to match the polarity of the sensor wires at the thermostat.

Figure 1



Polarity MUST be followed for the sensor to work. The RS+ and RS- terminals must match the corresponding sensor 1 or 2 terminals on the thermostat, either RS1+ and RS1- or RS2+ and RS2-.

NOTE: ***For shorter distances (up to 100 ft. / 30m), standard or twisted pair wire may work on Heat Pump systems. For longer distances, multi-stage systems, or any site with electrical noise, use 20 gauge shielded wire.***

3. Pull the labeled wires through the opening on the sensor back housing. (Figure 2)
   Secure the sensor to the wall with the 2 screws provided, and level for appearance using the bottom corners.
4. Strip a bare end on each wire approximately ¼" long, and bend to a small hook. Place behind the screw and washer for each terminal that matches the labeled wire, and tighten securely. (Figure 3) Snap the front cover onto the back housing.

NOTE: ***When using shielded wire, connect the shield to the NEGATIVE terminal at the remote sensor and thermostat. (RS–, RS1– or RS2–)***

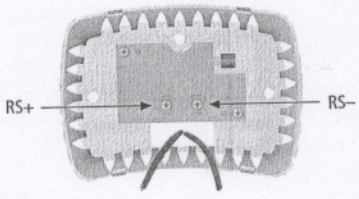


Figure 2

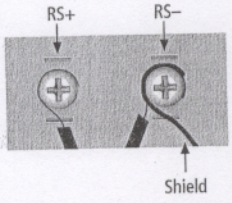


Figure 3

OPERATION

Refer to the instructions included with the Climate Technology thermostat for more details.

1. Turn power back on to the system, and be sure the thermostat is powered.
2. Within a minute, the thermostat will display "Found RM1" and/or "Found RM2". This means that the thermostat is communicating properly with the remote sensor. After locating the sensor, if the thermostat has a problem communicating with the sensor, "Check RM1" or "Check RM2" will appear.
3. Press the OPTION key on the thermostat to select the weighting for the Local and remote sensor(s), and to see the measured temperature for each sensor.
4. If there is a problem with the installed remote sensors, then the Local sensor reading will be used for the temperature.

TROUBLESHOOTING

If the remote sensor is not working, check these items:

1. Confirm the polarity matches between the remote sensor and thermostat. Also check that the wires for the sensor go to corresponding sensor 1 (RS1) or sensor 2 (RS2) terminals.
2. If using standard wire, change to 20 gauge shielded wire. Be sure the shield is connected to the negative terminals.
3. Confirm the wires are held firmly in place at the terminals on both the sensor and thermostat.

If you experience any other problems, call 1-800-676-7861 from 8 AM to 5 PM Central Time for technical assistance.