WARNING
Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life.
Installation and service must be performed by a licensed professional HVAC installer (or equivalent) or a service agency.

Shipping and Packing List

Package 1 of 1 contains:
• 10k thermistor (1)
• Installation Instruction (1)

Tools Required
• Precision flat-head screwdriver
• Electrical tape

Application
For use in applications where the ComfortSense 8500 (CS8500) measured temperatures are being influenced by excessive air flow across the thermostat.

NOTE: This only applies to configurations currently using the internal temperature sensor and not an external temperature sensor(s) for temperature monitoring.

Installation

8. After power up, touch the Menu button at the top right corner of the home Screen.
9. Touch technician settings to display the Technician Settings Screen.
10. Enter the 3-digit technician pin to access settings, and press ok to proceed.

NOTE: The default security code is 864.

11. Touch temperature sensor config. => temp. sensor source and select external temp. sensor(s).
12. After external temp. sensor(s) is selected, touch < in the upper left corner of the screen to return to temperature sensor config. screen.
13. Confirm that the number of external temp. sensor(s) is 1 and type of external sensor is 10k sensor type 2.

NOTE: The default number of external temp. sensor(s) is 1, and the default sensor type is 10k sensor type 2.

14. Touch < in the upper left corner of the screen to return to the Technician Settings Screen.
15. Touch the home button in the top left corner to return to the home screen.
16. Allow several minutes for the 10k thermistor to adjust to the ambient air temperature.

NOTE: An external temperature sensor error notification indicates an issue with the external temperature sensor installation. Verify the connection between the wires of 10k thermistor and Terminals T and T of the terminal strip on the back plate.

1. Detach the CS8500 from the back plate.
2. Remove the two mounting screws securing the back plate and wall plate (if installed) to the wall.
3. Carefully pull the back plate approximately 6” away from the wall, leaving the wall plate against the wall if it is installed.
4. Install one wire of the 10k thermistor in each of the T terminals as shown in Figure 1.

NOTE: In a CS8500 installation with a wall plate, route the 10k thermistor between the back plate and wall plate.
5. Position the thermistor sensing head and secure in place with electrical tape as illustrated in Figure 2.
6. Secure both the back plate and wall plate (if used) to the wall using the two mounting screws.
7. Reattach the CS8500 to the back plate and wall plate (if installed).

Figure 1. Front of Back Plate

Figure 2. Rear of Back Plate