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CONTROLS

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## ComfortSense® 8500 Commercial Programmable Thermostat

### INSTALLATION INSTRUCTIONS FOR

#### Local 10K Thermistor Kit (16A68)

#### **! 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

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).

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.

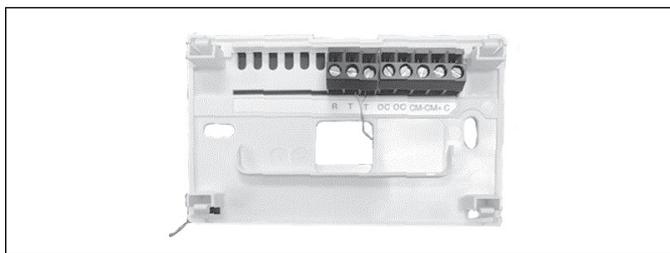


Figure 1. Front of Back Plate

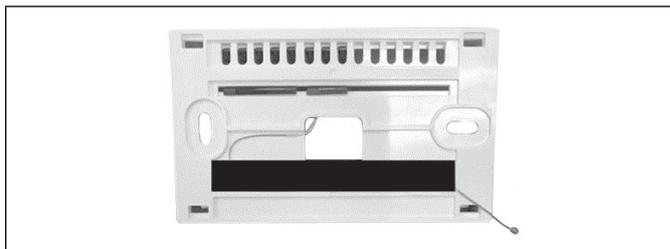


Figure 2. Rear of Back Plate



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