



Model 23A00-2 Flush Remote Temperature Sensor

DESCRIPTION

The Model 23A00-2 is a flush mount temperature sensor that can be installed on an Omnistat2 thermostat to monitor the temperature of a remote location, can be combined with the onboard temperature sensor for the average temperature of two locations, or can be used to monitor the outdoor temperature for dual fuel heat pump installations.

When used indoors, the remote sensor allows a customer to monitor the temperature of an area without having a visible thermostat. The thermostat, or group of thermostats, could be in a different location offering the customer complete control of temperatures.

INSTALLATION

1. Install Omnistat2 base in selected thermostat location and connect to heating/cooling equipment per manufacturer's instructions.
2. Connect thermostat to base and confirm that everything operates correctly. Disconnect the thermostat from the base.
3. In selecting a place to mount the Remote Temperature Sensor, be sure to avoid an area where studs, plumbing, or electrical wiring may be located behind the wallboard. Hold the base of the plastic case against the wall. Trace around the perimeter of the plastic case with a pencil. Carefully cut along the pencil line. DO NOT OVERSIZE THIS CUT-OUT!
4. Run a twisted pair, shielded cable from the Omnistat to the Remote Temperature Sensor location. For distances up to 100 feet, typical twisted pair, PVC-insulated, shielded cable may be used. For distances from 100-150 feet, twisted pair with polypropylene insulated conductors, shielded must be used. For distances from 150-250 feet, twisted pair with foam-polyethylene insulated conductors, shielded must be used. Wire runs must not exceed 250 feet.
5. Connect the data wires of the shielded cable to the green data wires of the temperature sensor using the supplied wire splices. Wrap the shield around the jacket of the cable and tape.
6. Insert the Remote Temperature Sensor base into the cutout in the wall.

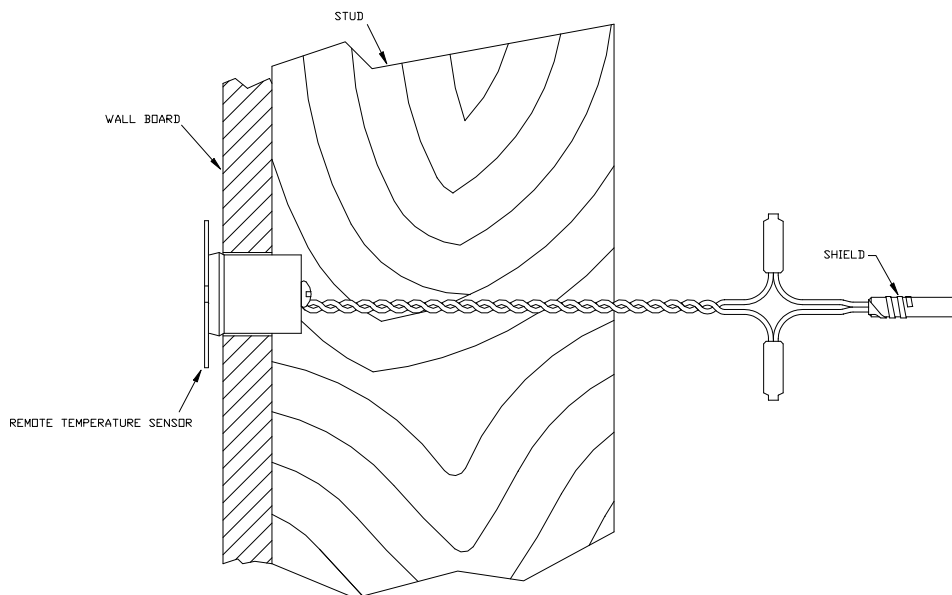


FIGURE 1
INSTALLING THE FLUSH SENSOR

7. At the Omnistat2 location, make the connections to the Green and Black terminals under the section marked “Remote Temp Sensor” on the right terminal strip. Note that the shield and one of the wires from the remote temperature sensor are tied together and get connected to the Black terminal – See Figure 2.

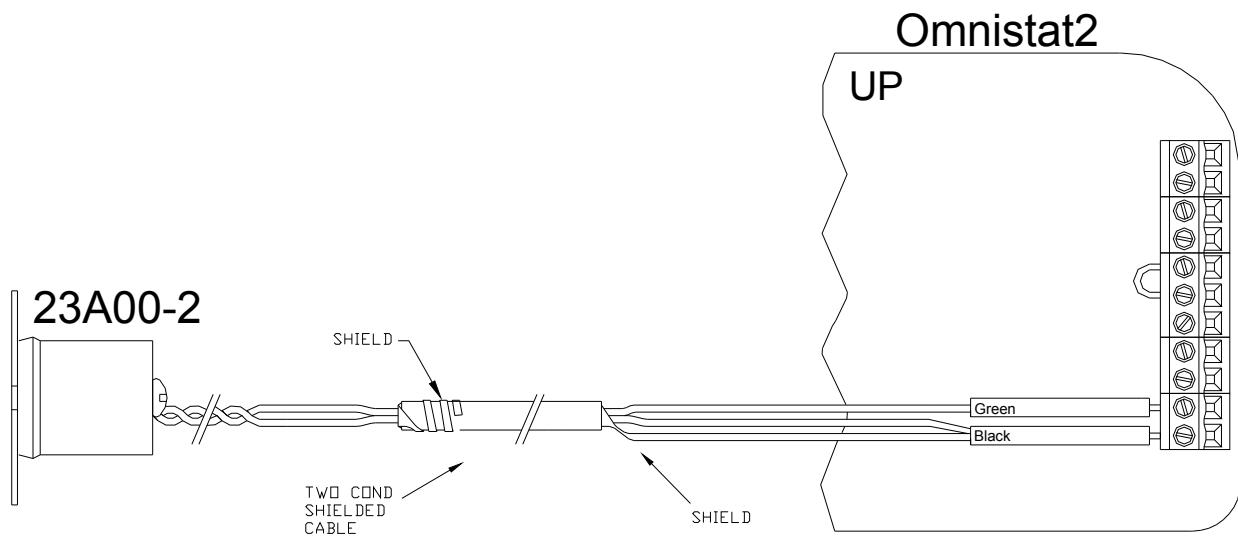


FIGURE 2
OVERALL INSTALLATION DIAGRAM

CONFIGURATION

Reconnect the Omnistat2 to the base and configure the remote temperature sensor according to the application.

The Temperature Sensor Installation Settings are used to configure the internal temperature sensor and optional remote temperature sensor that is connected to the thermostat. Any temperature sensors that are set as the same type (i.e. indoor or outdoor) will display the average temperature reading among the sensors. An asterisk (*) next to a setup item indicates the default setting.

- Internal Sensor: This will enable or disable the onboard temperature sensor for indoor use only. *Enabled
- External Sensor 1: This will enable the external temperature sensor for indoor or outdoor use. All indoor and outdoor temperatures are averaged between all sensors of the same type. *Disabled

OPERATION

On the Omnistat2 Home Page, confirm that the thermostat is displaying the proper temperature. If the remote temperature sensor is configured as “outdoor”, confirm that the proper outdoor temperature is displayed in the Message Bar on the Omnistat2.