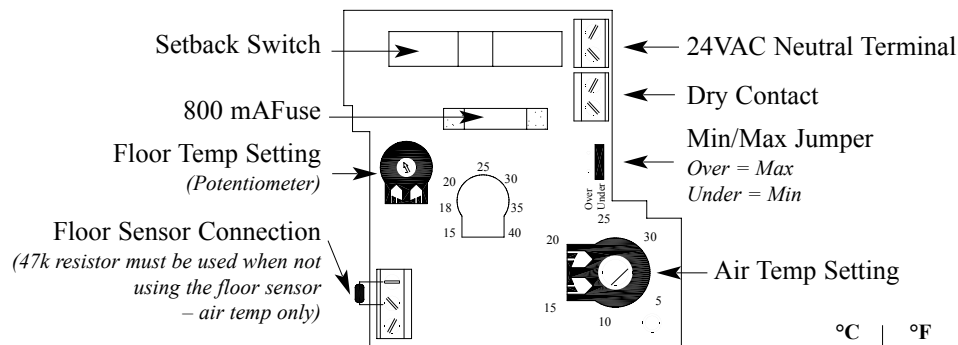


500800 Instruction Sheet



Watts Radiant
Floor Heating & Snowmelting

Illustration depicts the inside of the 500800 thermostat.



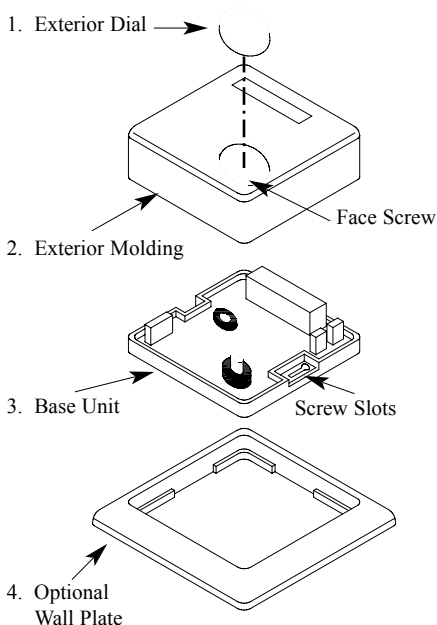
The new 500800 DualTemp thermostat is designed to monitor either air temperature or air and floor temperature with the floor acting as a limiter. Additionally each DualTemp is equipped with a built-in setback feature. Slide the Setback Switch to the "Sun" position to operate the thermostat at the desired setpoint conditions. Slide the Setback Switch to the "Moon" positions to set the thermostat back 7°F.

An optional Timer feature has been added to the 500800 to allow for timed setback. To use the timed setback feature, slide the Setback Switch to the "Clock" position.

Over = Max Temperature This setting will not allow floor temperature to rise above the setpoint.
Under = Min Temperature This setting will not allow floor temperature to fall below the setpoint.
 The Setback switch automatically sets the setpoint back 7°F when in the "moon" setting. Use the "sun" setting for normal operation.

°C	°F
15	59.0
18	64.4
20	68.0
25	77.0
30	86.0
35	95.0
40	104.0

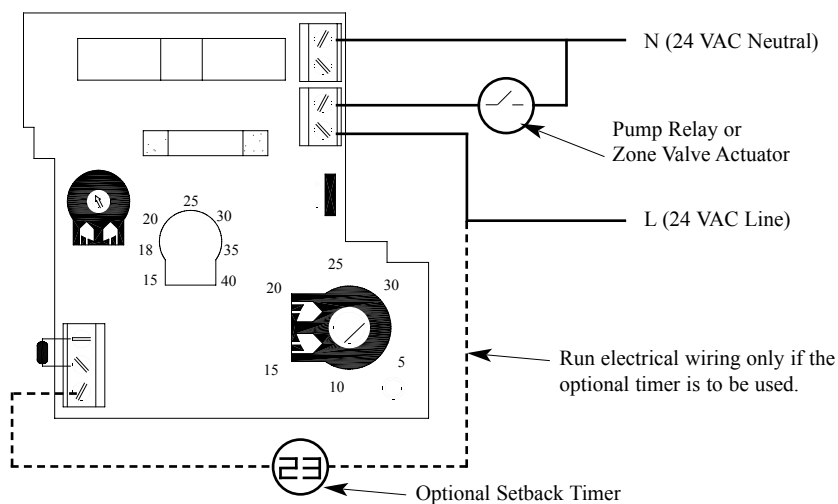
Wall Mounting



To mount the 500800 remove the Exterior Dial and the Face Screw. The Exterior Molding will lift off of the Base Unit. Secure the Base Unit to the wall with screws through the two Screw Slots located on either side of the Base Unit. Make sure to feed the electrical wiring through the provided slot in the Base Unit before securing it to the wall. If the Optional Wall Plate is not to be used, simply remove the Base Unit by holding the Wall Plate and pressing upward from the bottom. **Do not use a screwdriver or other object to pry the Base Unit from the Wall Plate as damage to the interior circuit board may occur.**

With the Base Unit secured to the wall, install the 18-3 wiring to the appropriate terminal blocks. Replace the Exterior Molding, Face Screw and Exterior Dial.

Electrical Wiring and Operation



The Watts Radiant DualTemp thermostat has the ability to measure both a floor temperature and an air temperature. Internally, each DualTemp comes with a 47K resistor installed in the sensor location, which allows the thermostat to be used as a stand alone air thermostat. Remove the resistor and connect the included floor sensor to enable the "dual sensing" capabilities of the thermostat.

Select the jumper position (right side of the thermostat) to determine whether the DualTemp operates based on a minimum (Under jumper setting) floor temperature or a maximum (Over jumper setting) floor temperature. To select the temperature setpoint, adjust the internal dial (potentiometer) located on the left side of the control.

The dial on the outside is used to set the air temperature. Turn the dial clockwise to increase the air setpoint and counter-clockwise to lower the setpoint.

Slide the Setback Switch to the "Sun" position for normal operation and to the "Moon" position to endure a 7°F setback.

An optional timer setback feature is included in the DualTemp. Install a 24 VAC timer (not included with the DualTemp) to the indicated terminal blocks. When the timer is activated the DualTemp will automatically go into the setback mode.

Description	Model #	Order #	List price
DualTemp, 24V Non-digital w/sensor	500800-024	81000504	\$79.15
DualTemp Floor Sensor	500802	81000505	\$14.70