
PRESTIGE SERIES II

Outdoor Temperature Reset Sensor

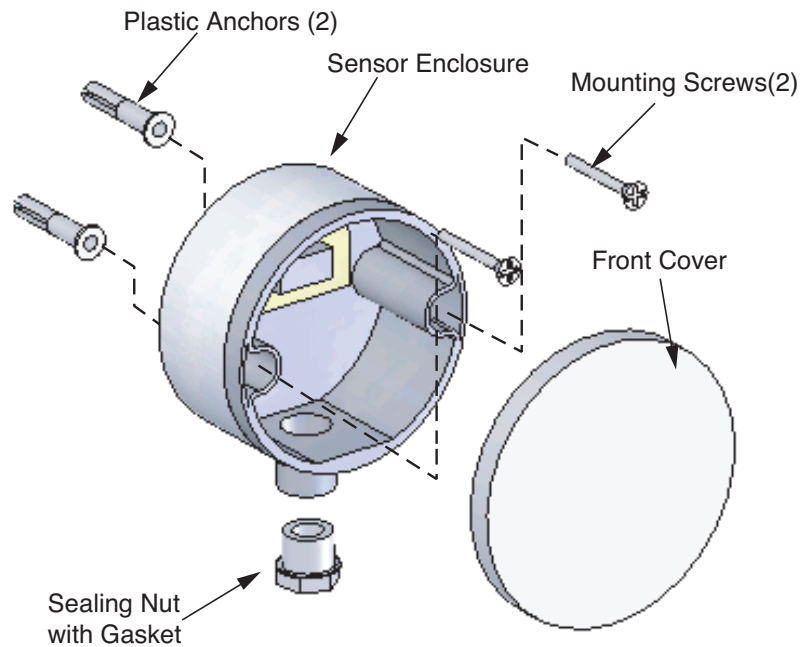


Fig. 1: Sensor Enclosure and Components

Mounting the Outdoor Sensor

1. Remove the front cover and mounting screws / anchors from the sensor enclosure.
2. When mounting the enclosure the exterior wall selected should represent the heat load of the building. Typically a northern or northeastern wall will suit most buildings. A southern facing wall for those buildings, which may have large glass walls or windows on the southern face.
3. Ensure the sensor enclosure is shielded from direct sunlight or the effects of heat or cold from other sources (exhaust fans, appliance vents...) to prevent false temperature sensing.
4. Mount the sensor enclosure at an elevation on the exterior wall to prevent accidental damage or tampering.
5. Avoid mounting the enclosure in areas subjected to excessive moisture.
6. Once an area on the exterior wall has been determined, to affix the enclosure use the enclosure as a template to mark the location of the mounting screws.
7. Using a 3/16" drill bit, drill 2 pilot holes on the marked locations.
8. Tap the enclosed plastic anchors into the pilot holes. Use care not to damage the anchors.
9. Mount the sensor enclosure using the screws provided.

Wiring the Sensor

1. Unthread the sealing nut and remove the sealing gasket from the sensor enclosure.
2. Route 18 AWG 2-wire cable or similar wire cable through the sealing nut and gasket. Connect the wire ends to the sensor terminals 1 and 2.
3. Re-insert the sealing gasket and tighten the sealing nut to the sensor enclosure.
4. Route the sensor cable back to the PRESTIGE boiler, ensuring the cable is not route parallel to telephone or power cables.

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Outdoor Temperature Reset Sensor

NOTICE

If the sensor cable is located in an area with sources of potential electromagnetic interference (EMI) the sensor cable should be shielded or the wires should be routed in a grounded metal conduit. If using shielded cable the shield wire should be connected to the common ground of the unit.

5. Connect the sensor cable to the outdoor sensor terminals on the 24V terminal strip located inside the boiler enclosure (see unit wiring diagram).

Summer / Winter Switch at Boiler

If required the CH (Central Heating) system can be turned off at the boiler, similar to manual summer / winter switch by press/hold the “+” button while in the “*Stby*” mode, the display will show “*cOFF*”. Press/hold the “+” button to turn the CH system back on, the display will show “c” followed by CH set point temperature (Parameter 4) or CH target temperature

Remote Summer / Winter Switch

- A manual summer/winter switch may be installed in addition to the outdoor sensor.
- This switch prevents the boiler central heating (CH) circulator from operating during a call for heat while in the summer mode.

Note: The summer mode does not affect boiler operation during domestic hot water production or the boiler freeze protection feature.

- The switch should be oriented to the outdoor sensor terminals on the boiler’s 24V terminal strip (see unit wiring diagram).

NOTICE

For proper function of the summer/winter switch, the switch should be connected in parallel to the outdoor sensor, not in series.

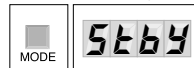
- The switch should be closed during summer mode. This will create a false outdoor temperature signal to the boiler control.

Boiler Target Temperature Setting

- The boiler will default to the boiler target temperature as defined in Parameter 4 when the outdoor sensor is not connected. The boiler control will modulate the firing rate to maintain this target temperature.
- The boiler will operate between the target temperature as defined in Parameter 4 and a minimum boiler temperature of 86°F.
- The boiler control will automatically detect the presence of the outdoor sensor once it is connected to the outdoor sensor terminals on the 24V terminal strip (see unit wiring diagram).
- With the outdoor sensor present, the boiler target temperature will default to a temperature as defined by the outdoor air reset. As the outdoor temperature drops the boiler target temperature will increase.
- The boiler target temperature defined in Parameter 4 is the maximum boiler temperature when the outdoor air temperature is at or below 0°F.
- The boiler minimum temperature setting of 86°F will occur when the outdoor temperature is at or above 68°F.
- The boiler target temperature setpoints are based on outdoor air temperatures between 0°F and 68°F and are linearly proportional. See Figure 2 and Table 1 for a sample setting.

Setting the Boiler Target Temperature

Key: Display



Note: If the boiler has been operating, the display may show the current boiler status on the left digit followed by the current boiler temperature.



Pressing MODE once

- Once in the PARA mode of the boiler control, scroll through the list of parameters by pressing the STEP button.

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NOTICE

Parameter 4 is adjustable from 86°F to 194°F. The factory setting is 186°F. Adjusting this parameter may affect the performance of the boiler.

- Once Parameter 4 is displayed, use the + or - button to modify the parameter setting.

- Once the desired parameter setting is reached press STORE to save the value. The display will flash once to confirm the data has been saved.
- To activate the stored parameter value, press MODE twice to return to the STBY mode.

Fig. 2: Outdoor Air Temperature Reset Curve (Example)

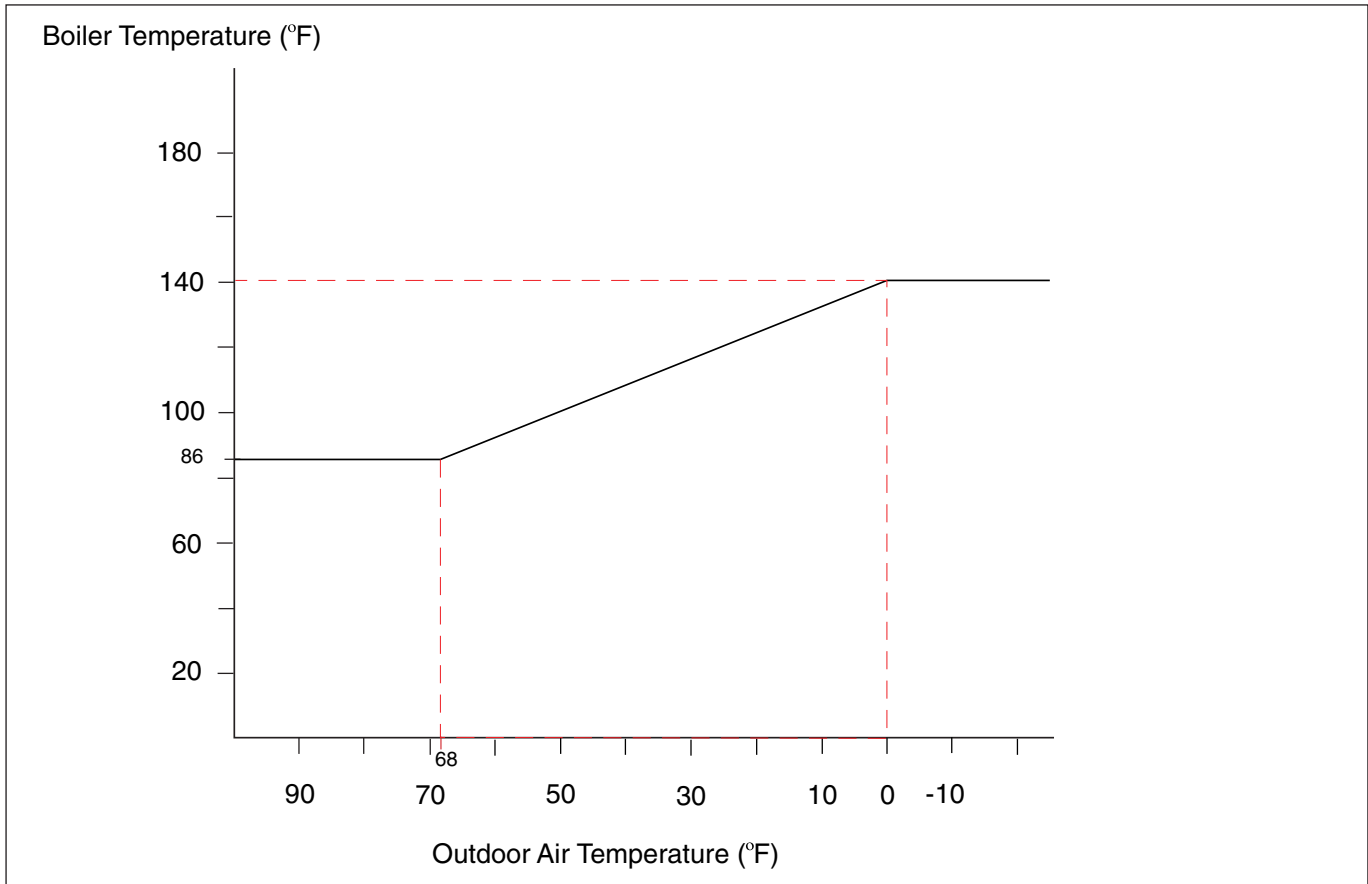


Table 1: Outdoor Air Temperature Reset (Example)

If parameter 4 is adjusted for 140°F target temperature at 0°F outdoor air temperature.

Outdoor Temperature	Boiler Target Temp. Based on Outdoor Temp.
0°F or Lower	140°F
23°F	122°F
40°F	108°F
68°F or Higher	86°F