



Installation Instructions

Programmable Thermostat

1 Applications

This power base has been designed for floor heating applications. It has ground fault protection (GFCI¹ or EGFPD²) and an input for connecting a floor sensor.

If your thermostat has the Vacation Mode, the mode can be activated using a remote control device equipped with a normally open (NO) dry contact. For more information on this mode, see the thermostat's user guide.

¹ Ground Fault Circuit Interrupter

² Equipment Ground Fault Protection Device

2 Supplied Parts

- 1 One (1) power base
- 2 Two (2) screws
- 3 Four (4) solderless connectors for copper wires

NOTE: Special CO/ALR solderless connectors must be used for connecting aluminum conductors.

- 4 One (1) floor sensor
- 5 One (1) flat-tip screwdriver

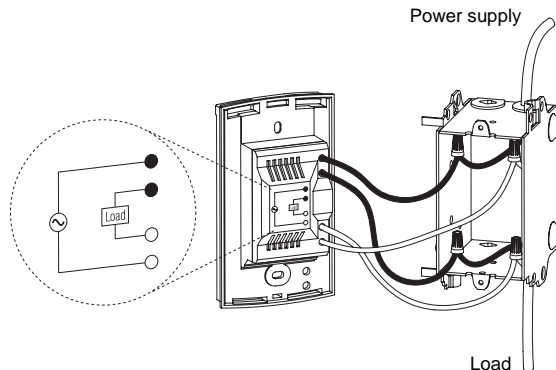
3 Installation Guidelines

- ▶ Install the thermostat onto an electrical box.
- ▶ Do NOT install the thermostat in an area where it can be exposed to water or rain.

4 Installation Procedure

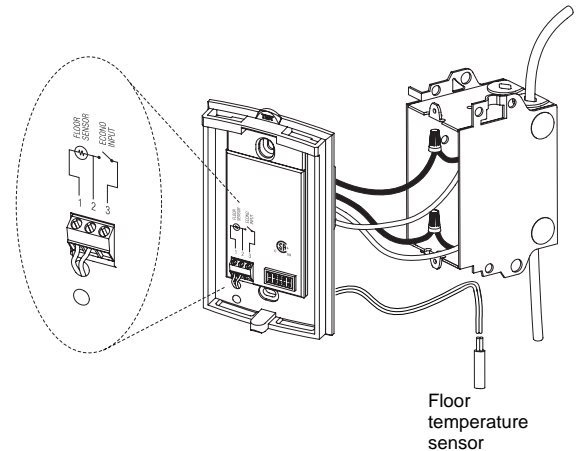
All electrical connections must be made by a licensed electrician. Failure to do so voids all warranties and claims.

- 1 Turn off power to the heating system at the main power panel in order to avoid any risk of electrical shock.
- 2 Connect the power base wires to the power supply and to the load using solderless connectors for copper wires.



- 3 Insert the floor sensor cable through one of the two openings on the base and connect the sensor wires to terminals 1 and 2 (no polarity).

Position the sensor cable such that it does not come in contact with the floor heating wires. The sensor probe must be centered between two floor heating wires for best temperature control.

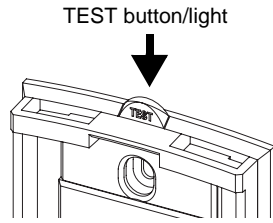


- 4 If you wish to connect a remote control device, insert the wires (use 18- to 22-gauge flexible wires) through one of the two openings on the base and connect them to terminals 2 and 3 (no polarity).
- 5 Push the excess length of the high-voltage wires back inside the electrical box.
- 6 Secure the power base to the electrical box using the provided screws.
- 7 Verify the settings of the configuration switches (if any) on the back of the control module (see user guide).
- 8 Install the control module on the base (see user guide).
- 9 Apply power to the heating system. Verify the installation by making sure that the heating system can be turned on and turned off by increasing and decreasing the setpoint.
- 10 Test the ground fault protection.

5 Ground Fault Protection

5.1 Description

The power base protects against risks of electrocution caused by leakage current. If the leakage current exceeds 5 mA or 15 mA (depending on the model), the ground fault protection will automatically trigger, cutting power to the floor heating system. To indicate the fault, the **TEST** button on the top of the base will illuminate (red).



5.2 Ground Fault Protection Reset

When the ground fault protection has triggered, reset it by switching the thermostat to **Standby** and back to **On**. The **TEST** button light will go off.

5.3 Ground Fault Protection Test

To ensure the ground fault protection is always in working order, test it once the thermostat is installed and on a monthly basis thereafter.

- ① Increase the setpoint temperature above the measured floor temperature in order to activate the floor heating system.
- ② Press the **TEST** button.
 - The test is successful if the **TEST** light is On (red). Reset the thermostat and place it back to the desired temperature.
 - The test has failed if the **TEST** light remains off. Cut power to the heating system at the main electrical panel and replace the thermostat.

6 Technical Specifications

Model	Supply	Maximum Load		Wiring
		Current	Power	
0800-0003-2	120 VAC, 50/60Hz	15 A	1800 W	4 wires double pole
0800-0005-2	120 VAC, 50/60Hz	15 A	1800 W	4 wires double pole
0800-0007-4	240 VAC, 50/60Hz	15 A	3600 W	4 wires double pole
	208 VAC, 50/60Hz		3120 W	
0800-0009-4	240 VAC, 50/60Hz	15 A	3600 W	4 wires double pole
	208 VAC, 50/60Hz		3120 W	

Model	Ground Fault Protection	Leakage Current
0800-0003-2	Ground Fault Circuit Interrupter (GFCI)	5 mA
0800-0005-2	Equipment Ground Fault Protection Device (EGFPD)	15 mA
0800-0007-4	Ground Fault Circuit Interrupter (GFCI)	5 mA
0800-0009-4	Equipment Ground Fault Protection Device (EGFPD)	15 mA

Heating cycle length: 15 minutes

Storage: -4 °F to 120 °F (-20 °C to 50 °C)

Size (H • W • D): 4.89 x 2.76 x 0.91 in. (124 x 70 x 23 mm)