❶ Applications

This power base has been designed for 208/240 V heating applications such as baseboard heaters, convectors and fan-forced convectors. It has an input for connecting a remote control device equipped with a dry contact such as Aube's telephone controller (CT240 or CT241). When the contact closes, the thermostat switches to Vacation mode. For more information on this mode, see the thermostat's user guide.

*NOTE: This power base must be used with thermostat operating on **15-minute** cycles.*

❷ Supplied Parts

❶ One (1) power base

❷ Two (2) screws

❸ Four (4) solderless connectors for copper wires

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

❸ 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.

▸ Install the thermostat on an inside wall facing the heating system.

▸ Avoid locations where there are air drafts (top of staircase, air outlet), dead air spots (behind a door), direct sunlight, concealed chimneys or pipes or an air diffuser.

▸ For a new installation, choose a location about 1.5 m (5 ft.) above the floor.

❹ Installation Procedure

Installation should be carried out by an electrician and must comply with local electrical codes.

❶ Turn off power to the heating system at the main power panel in order to avoid any risk of electrical shock.

❷ Connect the power base wires to the power supply and to the load using solderless connectors for copper wires.

Power

Load
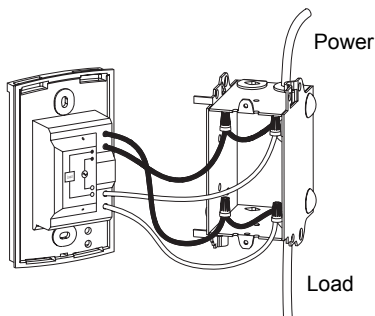
❸ If you wish to connect an external floor temperature sensor, insert the floor sensor cable through one of the two openings on the base and connect the sensor wires to terminals 3 and 4 (no polarity).

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.

❹ 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 1 and 2 (no polarity).

To remote control device

Floor sensor
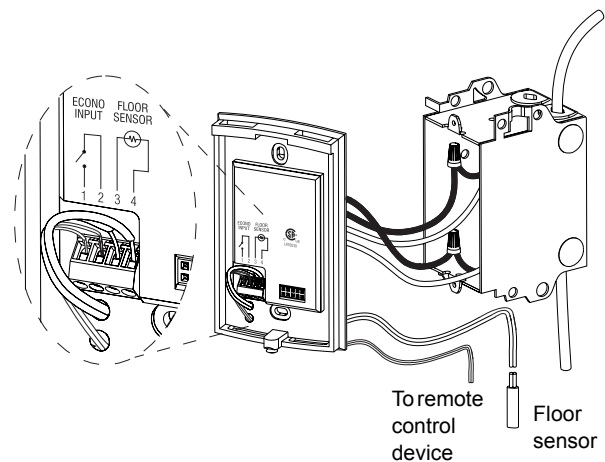
❺ Push the excess length of the high-voltage wires back inside the electrical box.

❻ Secure the power base to the electrical box using the provided screws.

❼ If applicable, configure the thermostat using the selector switches on the back of the control module (see user guide)).

❽ Install the control module on the base (see user guide).

❾ 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.

❺ Technical Specifications

Model	Supply	Max. Load	Power	Connection
OTH800D (240D)	240 Vca, 50/60 Hz 208 Vca, 50/60 Hz	15 A	3600 W 3120 W	4 w/DP[a]

a. DP = Double Pole

Storage: -20 °C to 50 °C (-4 °F to 120 °F)
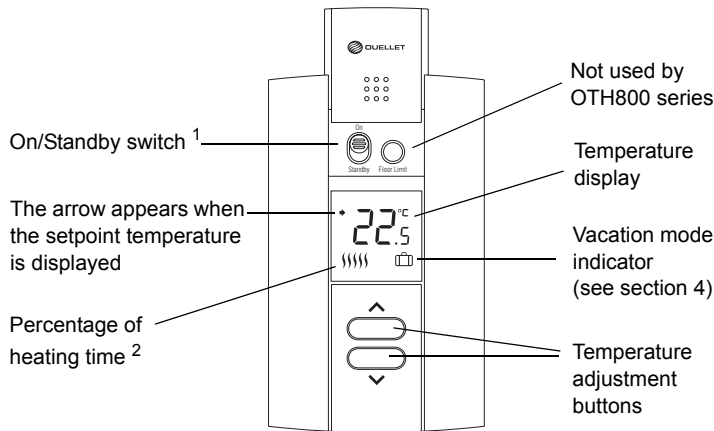**Size (H • W • D)**: 124 x 70 x 23 mm (4.89 x 2.76 x 0.91 in.)
**Certification** :

❶ Description

The OTH800 Series thermostats have been designed to control the ambient temperature and are available in the following models:

OTH800D ▸ For 240 V applications such as electric base-boards, convectors or fan-forced convectors

OTH824 ▸ For low-voltage applications (24 V) such as a hot-water valve
▸ For electric baseboards, convectors or fan-forced convectors via a 24-V relay

On/Standby switch [1]

Not used by OTH800 series

The arrow appears when the setpoint temperature is displayed

Temperature display

Vacation mode indicator (see section 4)

Percentage of heating time [2]

Temperature adjustment buttons

[1] Place the thermostat in Standby when it is not in use (e.g., during summer).

[2] The thermostat displays the percentage of heating time required to maintain the desired temperature. For example, $ﬆ$ is displayed when heating is activated 40 percent of the time.

Display	ﬆ	ﬆﬆ	ﬆﬆﬆ	ﬆﬆﬆﬆ	ﬆﬆﬆﬆﬆ
% of heating time	1 to 24%	25 to 49%	50 to 74%	75 to 99%	100%

❷ Configuration

The configuration switches are located on the back of the faceplate.
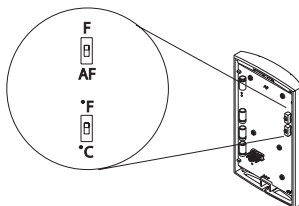
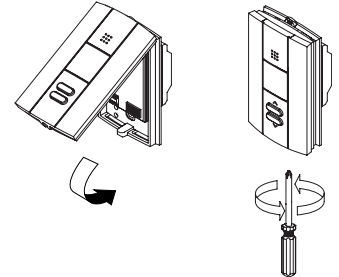### 2.1 Temperature Display (S1)

Select between °C and °F.

2.2 Application Mode Selection (S2)

This switch must be left in the AF position.

❸ Installation

❶ Refer to the installation instructions of the power base

❷ Insert the tabs at the top of the faceplate in the slots at the top of the power base.

❸ Secure the control module using the captive screw underneath the base.

NOTE: Keep the thermostat's vents clean and unobstructed at all times.

❹ Vacation Mode

The Vacation mode can be activated using a remote control device equipped with a normally-open (NO) dry contact such as Aube's telephone controller (CT240/CT241).

In the Vacation mode, the temperature is reduced by 3.5°C (7°F) and the thermostat buttons are locked to prevent any temperature adjustment. The mode is indicated by the suitcase icon 🧳 on the screen. When the contact opens, the thermostat returns to normal mode and to the initial temperature setpoint.

❺ Power-up

When the thermostat is powered, it first undergoes a series of tests before displaying the actual temperature.

❻ Error Messages

LO	The measured temperature is below the thermostat's display range. Heating is activated.
HI	The measured temperature is above the thermostat's display range. Heating is deactivated.
Er	Verify the thermostat connections.

❼ Temperature Setting

The thermostat normally displays the actual temperature. To view the setpoint temperature, press one of the ⌄⌃ buttons once. The setpoint will be displayed for 5 seconds. To change the setpoint, press and release one of the ⌄⌃ buttons until the desired temperature is displayed. To scroll the setpoint faster, press and hold the button.

Backlight

When you press on either of the ⌄⌃ buttons, the display is lit for 10 seconds. The setpoint appears for 5 seconds, then the actual temperature is displayed.

❽ Technical Specifications

Power supply: Refer to the power base installation instructions.

Setpoint range: 40 °F to 86 °F (5 °C to 30 °C)

Display range: 32 °F to 122 °F (0 °C to 50 °C)

Resolution: ± 1.0 °F (0.5 °C)

Heating duty cycle: Refer to the power base installation instructions.

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

☑ Warranty

ONE (1) YEAR LIMITED WARRANTY

Ouellet Canada Inc. warrants the component parts of the OTH800 Series against defects in material and workmanship for a one (1) year period from the date of purchase, under normal use and service, when proof of purchase of such is provided to the manufacturer.

The obligation of Ouellet Canada Inc., under the terms of this warranty, will be to supply a new unit and this releases the manufacturer from paying the installation costs or other secondary charges linked to replacing the unit or the component part(s).

☎ Customer Service

If you have any questions on the product, call our technical support team at:

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180, 3rd Avenue
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