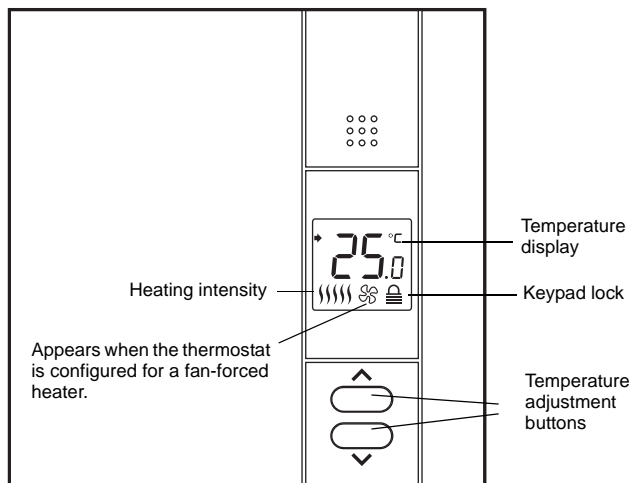


1 Description

The TH450 thermostat is designed to control an electric heating system such as a baseboard heater, a radiant ceiling, a convector or a fan-forced convector.



This thermostat cannot be used with:

- a resistive load under 1.25 A
- a resistive load over 16.7 A
- a system driven by a contactor or a relay (inductive load)
- a central heating system

SUPPLIED PARTS

- One (1) thermostat
- Two (2) 6-32 mounting screws
- Two (2) solderless connectors

2 Installation

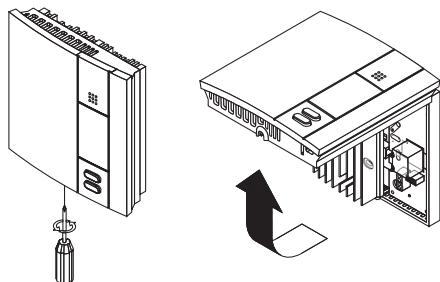
The installation must be carried out by an electrician and must comply with local electrical codes.



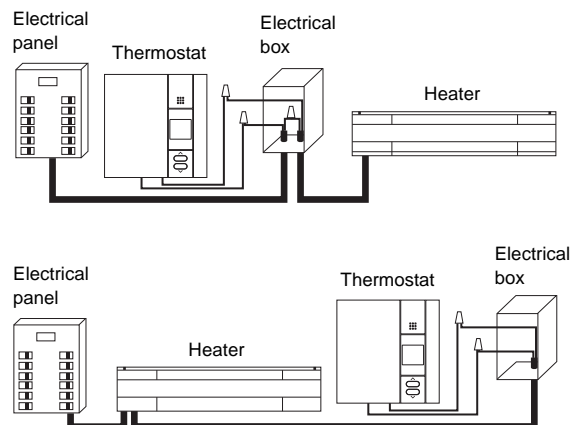
CUT POWER TO THE HEATING SYSTEM AT THE MAIN ELECTRICAL PANEL TO AVOID ANY RISK OF ELECTRICAL SHOCK.

Loosen the screw and remove the faceplate of the thermostat from its wallplate.

NOTE: The screw remains captive on the wallplate.

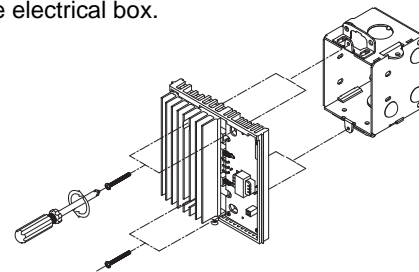


Make the connections using solderless connectors for copper wires. The thermostat wires are non-polarized; this means either wire can be connected to either terminal.

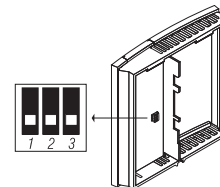


WARNING: This thermostat has tinned copper wires for line and load connections. Special CO/ALR solderless connectors must be used when connecting with aluminium conductors.

Install the wallplate to the electrical box.

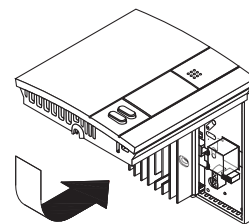


Set the configuration switches on the back of the thermostat's faceplate (see section 3).



Install the faceplate of the thermostat back on the wallplate and tighten the screw.

NOTE: If there is a protective film or sticker on the thermostat's screen, peel it off.






Apply power to the thermostat. Verify the installation by checking that the heater can be turned On and Off by raising and lowering the setpoint using the ▲ and ▼ buttons.

NOTE: Keep the air vents of thermostat clean and unobstructed at all times.



3 Configuration switches

The configuration switches are on the back of the thermostat. The factory settings are indicated by the gray cells in the following table.

Switch			
1	Keypad lock ^a	Off	On
2	Cycle length ^b	Short	Long
3	Temperature display format	°C	°F

- The settings are locked. The temperature adjustment buttons only allow you to view the temperature setpoint.
- Select short cycles (15 seconds) in most cases as it provides better temperature control. However, you must select long cycles (5 minutes) if you have a fan-forced heater.  is displayed when long cycles are selected.

4 Configuration Menu

Parameter	Settings	Display and default setting
Minimum setpoint	• 5 °C - 30 °C (41 °F - 86 °F)	
Maximum setpoint	• 5 °C - 30 °C (41 °F - 86 °F)	

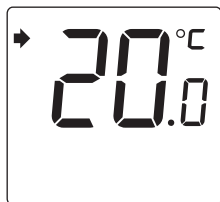
- Press the ▲ and ▼ buttons simultaneously for three seconds to enter the configuration menu.
- Press the ▲ or ▼ button to set the displayed parameter.
- Press the ▲ and ▼ buttons simultaneously for one second to display the next parameter.
- Press the ▲ and ▼ buttons simultaneously for three seconds to exit the configuration menu.

NOTE: The thermostat will automatically save any changes made and return to its normal display if you do not press any button for one minute.

5 Temperature Display and Setting

The thermostat normally displays the actual temperature.

- To view the setpoint temperature, press once on either temperature adjustment button. The setpoint temperature will appear for 5 seconds. The ➔ icon appears when the setpoint is displayed.
- To change the setpoint temperature, press the appropriate button until the desired value is displayed.
- The screen is backlit for 10 seconds when any button is pressed.



6 Power Outage

During a power outage, the setpoint is saved in memory. You do not need to adjust the temperature when power returns.

7 Troubleshooting

PROBLEM	SOLUTIONS
Thermostat's housing is hot.	This is normal. When the thermostat is running at full capacity, its housing can reach 40 °C (104 °F).
Wrong temperature is displayed.	Rectify if any of the following conditions applies: <ul style="list-style-type: none"> The thermostat is exposed to air draft. The sticker on the thermostat's screen has not been removed. The thermostat is located near or above a heat source such as a light dimmer.
Display disappears and reappears after a few minutes.	The thermal protection device on the heater has temporarily opened. This can happen if the heater is obstructed by furniture or curtain and has overheated, or if the heater's thermal protection device is too sensitive.

8 Specifications

Power supply:	120/208/240 VAC, 60 Hz
Minimum load:	1.25 A / 150 W @ 120 VAC, 60 Hz 1.25 A / 260 W @ 208 VAC, 60 Hz 1.25 A / 300 W @ 240 VAC, 60 Hz
Maximum load:	16.7 A / 2000 W @ 120 VAC, 60 Hz 16.7 A / 3465 W @ 208 VAC, 60 Hz 16.7 A / 4000 W @ 240 VAC, 60 Hz
Setpoint range:	5 °C to 30 °C (41 °F to 86 °F)
Display range:	0 °C to 60 °C (32 °F to 140 °F)
Resolution:	± 0.5 °C (± 1 °F)
Storage:	-20 °C to 50 °C (-4 °F to 120 °F)

Warranty

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of three (3) years from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option).

- If the product is defective,
- return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or
 - contact Honeywell. Honeywell will make the determination whether the product should be returned, or whether a replacement product can be sent to you.

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some provinces and states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

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This warranty gives you specific legal rights, and you may have other rights which vary by province, state or region.



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