

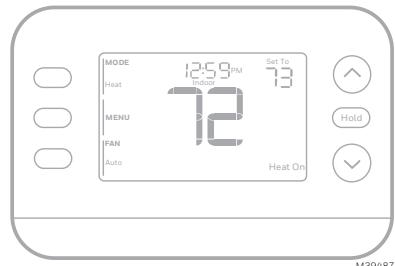
Honeywell Home

FocusPRO P200 Series Programmable Thermostats User Manual

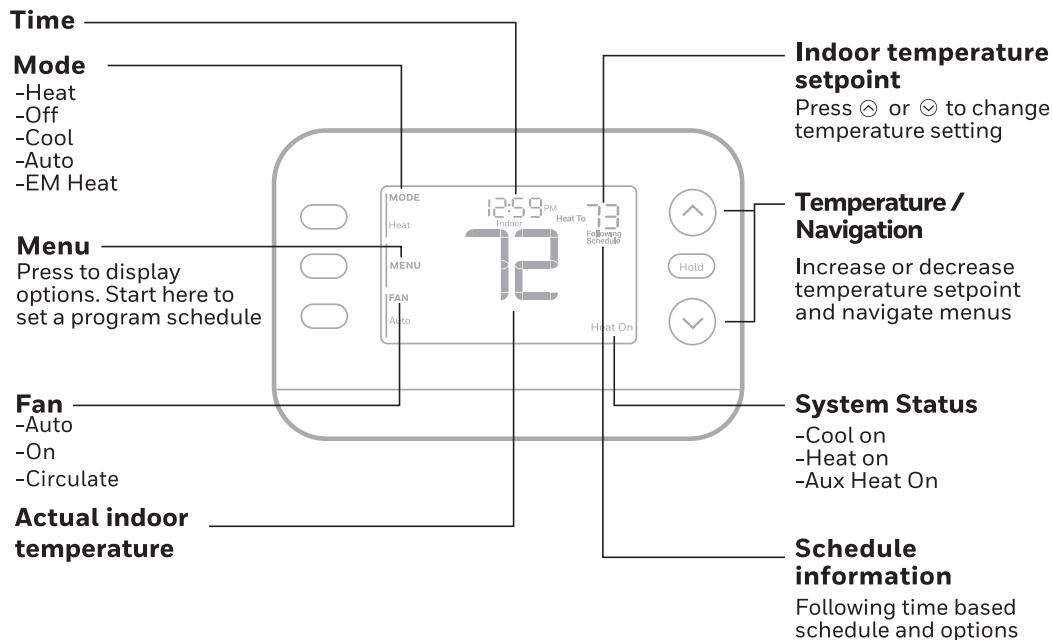
Models

TH2110U4004

TH2320U4006



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Introduction

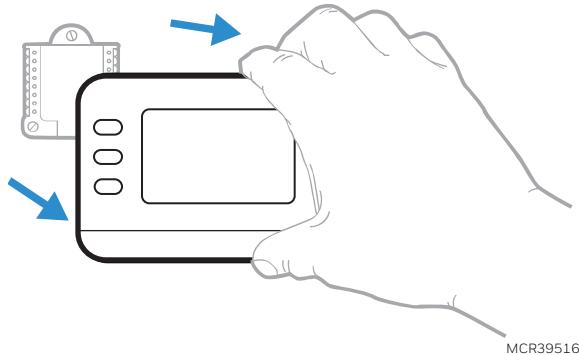
This document discusses the following topics (click to jump to those sections):

- [Battery Replacement](#)
- [User Settings](#)
- [The Auto Changeover feature](#)
- [Alerts](#)
- [Reminders](#)
- [Programming Your Thermostat](#)
- [The Adaptive Intelligent Recovery feature](#)
- [Built-In Compressor Protection](#)
- [Troubleshooting](#)
- [Customer Assistance](#)

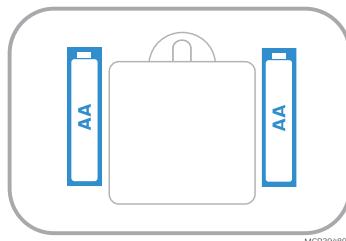
Battery Replacement

The thermostat's display will let you know when the batteries are low and need to be replaced.

Remove the thermostat by pulling it away from its mount as seen below.



Be sure to use **fresh** AA batteries and insert them as shown in the diagram below.



After inserting the new batteries, align the thermostat with the mounting plate and push gently until the thermostat snaps back into place.

User Settings

After initial setup is complete, you can enter the **User menu**.

- 1 Press Menu button.
- 2 Press **↑** or **↓** to cycle through **User Menu** options. When the menu option you want to use is displayed, press **SELECT**.

User menu options

- **SCHEDULE**: Turn schedule on or off or set/edit schedule settings
- **TEMP**: Display outdoor or indoor temperature *
- **DATE**: Set Date
- **TIME**: Set Time

• **LOCK****: Change lockout status (**OFF**, **FULL** or **PART**). Partial lockout allows temporary setpoint change only.

- 3 To **EXIT** and return to the Home screen, press the **EXIT** button (upper left) or wait for the thermostat to time out.

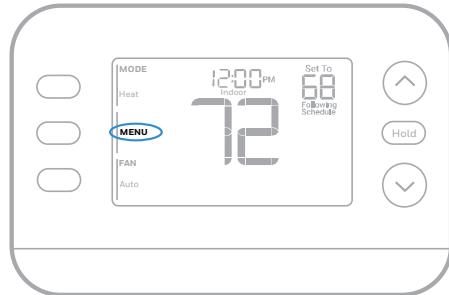
*Outdoor option only shown if thermostat is set to use a wired outdoor sensor

** Lockout option only shown if enabled by the installer

Set Time and Date

Time

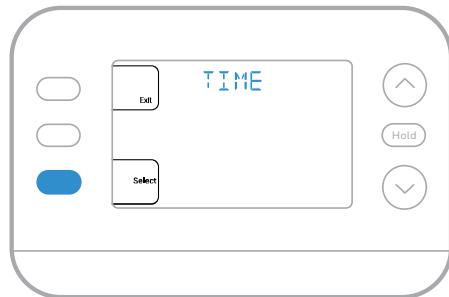
- 1 Press **MENU** on the thermostat
- 2 Press **↑** or **↓** to go to **TIME** and press **SELECT**.
- 3 Press **↑** or **↓** to choose 12- or 24-hour clock format and press **NEXT**.
- 4 Press **↑** or **↓** to adjust the **hour** and press **NEXT**.
- 5 Press **↑** or **↓** to adjust the **minute** and press **SAVE & EXIT**.



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Date

- 1 Press **MENU** on the thermostat
- 2 Press **↑** or **↓** to go to **DATE** and press **SELECT**.
- 3 Press **↑** or **↓** to choose **YEAR** and press **NEXT**.
- 4 Press **↑** or **↓** to choose **MONTH** and press **NEXT**.
- 5 Press **↑** or **↓** to choose **DATE** and press **SAVE & EXIT**.



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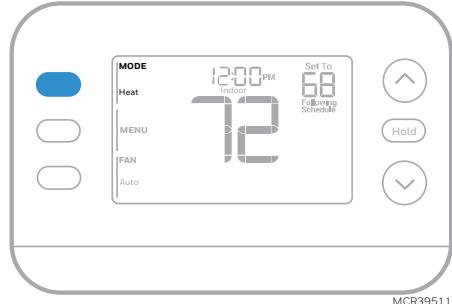
System Operation Settings

- 1 Press the **MODE** button to cycle to the next available System mode.
- 2 Cycle through the modes until the desired System mode is displayed.

Available System modes vary by model and system settings.

System modes:

- **AUTO**
- **HEAT**
- **COOL**
- **EM HEAT**
- **OFF**



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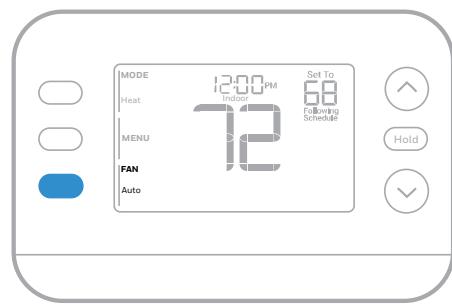
Fan Operation Settings

- 1 Press the **FAN** button to cycle to the next available Fan mode.
- 2 Cycle through the modes until the desired Fan mode is displayed.

Available Fan modes vary with system settings.

Fan modes:

- **AUTO**: Fan runs only when the heating or cooling system is on
- **ON**: Fan is always on
- **CIRC**: Fan runs about 33% of the time to circulate air



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Auto Changeover

When a thermostat is set to Auto Changeover, the thermostat has a Heat setpoint and a Cool setpoint and can run either Heat or Cool as needed.

- 1 Verify the thermostat is set to Auto Changeover mode. Press the **MODE** button in the upper left until **AUTO** is selected. Press the **SAVE** button (Center left).
- 2 Press the **↑** or **↓** button. Upper right shows **HEAT TO** or **COOL TO** in flashing text, and the setpoint. Use the **↑** or **↓** button to adjust the setpoint. If the display shows **HEAT TO** flashing when you want to adjust the Cool setpoint, or vice versa, press the System button. While **HEAT TO** or **COOL TO** is flashing, the mode indication at upper left shows either **HEAT** or **COOL** flashing. Pressing the **MODE** button at this time changes the setpoint being adjusted from **HEAT** to **COOL** or vice-versa.

Heat and cool set to the same temperature

Most people are comfortable in a 2-3 degree temperature range. Therefore, the heat is usually set a few degrees below the Cool setpoint. When the indoor temperature is between the Heat and Cool setpoints, the system is off.

The Heat and Cool setpoints can be the same. To ensure that the system doesn't cycle back and forth between Heating and Cooling, the thermostat observes a **differential** setting, set by the installer. If the thermostat last ran in Heat mode, it cycles heat on and off to maintain the setpoint. The indoor temperature must rise to the differential setting before it switches to Cool.

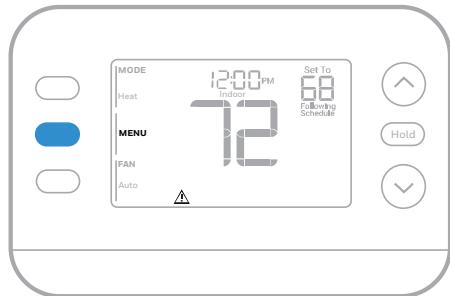
Then cooling will run down to the Cool setpoint and cycle cooling on and off to maintain as needed. The thermostat would then need to drop to the differential setting before switching back to Heat. Typically, a thermostat using Auto Changeover would only need to switch over twice per day as outdoor temperature rises during the day and drops in the evening.

Alerts

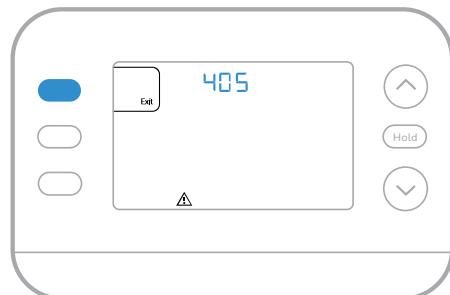
When an alert is active, an  icon will appear in the lower part of the display.

- 1 Press **MENU** and use **↑** or **↓** until the alert is shown. Active alerts will be the first menu items shown.
- 2 Press **SELECT** to display the alert number.
- 3 An alert cannot be dismissed. If there is more than one active alert, pressing the **NEXT** button allows you to view any additional alert numbers. Press **EXIT** to return to the home screen.

Some alerts can be resolved by the homeowner, for example **Replace Batteries**. Other alerts may require a service call to the professional installer.



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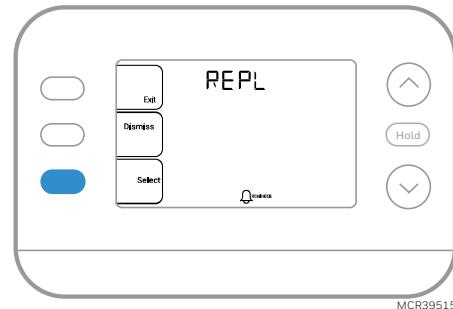
Alert Number	Alert Meaning
405	Thermostat batteries are low. Replace batteries.
407	Thermostat batteries are critically low. Replace batteries.
164	Heat Pump Fault. Heat pump is energizing the L terminal to indicate a fault.
170	Thermostat Memory Failure. Internal problem with the thermostat memory.
171	Set Time and Date. To clear this alert, enter the Menu, and follow steps listed earlier in this manual to set the time and date.
173	Internal Sensor Error. Issue with the built-in temperature sensor.
178	Wired Outdoor Sensor Error. Check wires and connections to outdoor sensor

Reminders

When a reminder is active, a  icon will appear in the lower part of the display.

- 1 Press **MENU** and use **↑** or **↓** until the active reminder is shown. Active alerts and reminders will be the first menu items shown.
- 2 Press **SELECT** to display the reminder.
- 3 Once selected you will see the reminder message in scrolling text. Press **DISMISS** to reset the reminder or press **EXIT** to return to the home screen without resetting the reminder.

If there is more than one active reminder, press the **NEXT** button to view all reminders which have not been reset.



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Programming Your Thermostat

You can program four time periods each day, with different settings for weekdays and weekends. We recommend using the presets shown in the table at right; these presets are designed to reduce your heating/cooling expenses.

WAKE: Set to the time you wake up and your desired temperature during the morning until you leave for the day.

AWAY: Set to the time you leave home and your desired temperature while you are away (usually an energy-saving temperature).

HOME: Set to the time you return home and your desired evening temperature until bedtime.

SLEEP: Set to your bedtime and your desired overnight temperature (usually an energy-saving temperature).

	Heat	Cool
Wake (6:00 am)	70 °	78 °
Away (8:00 am)	62 °	85 °
Home (6:00 pm)	70 °	78 °
Sleep (10:00 pm)	62 °	82 °

Farenheit Deg.

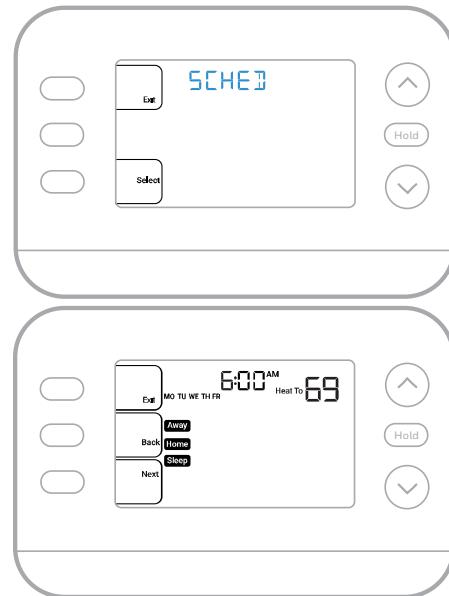
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Adjusting Program Schedules

- 1 Press **MENU**. Then press **↑** or **↓** until **SCHED** is displayed.
- 2 A square appears around **ON** or **OFF** in the display. If you want to use a schedule, press **↑** or **↓** to select **ON**. Press **SELECT** to edit the schedule or press **EXIT** to exit the menu.
- 3 If editing the schedule, press **SELECT** to edit the day or days flashing in the display.
- 4 The word **Wake** should be flashing. Press **NEXT**. Press **↑** or **↓** to turn this schedule period on or off. Selecting **OFF** will disable this schedule period. Press **NEXT**.
- 5 If the schedule period was set to **ON**, the time will be flashing. Press **↑** or **↓** to adjust the time for this period. Press **NEXT**.
- 6 The Heat setpoint will be flashing. Press **↑** or **↓** to adjust the Heat setpoint for this period. Press **NEXT**.
- 7 The Cool setpoint will be flashing. Press **↑** or **↓** to adjust the Cool setpoint for this period. Press **NEXT**.
- 8 The display will show the next schedule period flashing. Repeat steps 4 – 7 for the Away, Home and Sleep schedule settings. After completing all schedule settings for the day(s) selected, repeat these steps for the other days.
- 9 Press the **SAVE & EXIT** button at upper left.

When editing an existing schedule, you can advance to the setting you wish to change, edit that setting and press the **SAVE & EXIT** button to save changes.

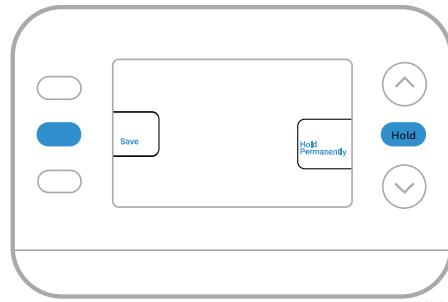
Depending on what type of schedule the thermostat was set up for, days may be grouped or set individually.



Program schedule override (Temporary)

- 1 Press \uparrow or \downarrow to adjust the temperature.
- 2 Once at the desired setpoint temperature, no further action is needed. The new setpoint temperature will be held until the next scheduled period begins.
- 3 Press the **SAVE** button or wait for the display to time out and return to the Home screen.

To cancel the Temporary Hold, press and release the **HOLD** button to cycle through the settings until **CANCEL HOLD** is selected.



Program schedule override (Permanent)

- 1 Press \uparrow or \downarrow to adjust the temperature.
- 2 Once at the desired setpoint temperature, press and release the **HOLD** button to cycle through the settings until **HOLD PERMANENTLY** is selected.
- 3 Press the **SAVE** button or wait for the display to time out and return to the Home screen.

To cancel the Permanent Hold, press and release the **HOLD** button to cycle through the settings until **CANCEL HOLD** is selected.

Keypad Lockout

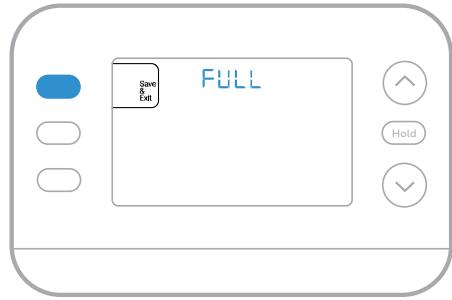
- 1 Press Menu on the thermostat.
- 2 Press **↑** or **↓** to go to **LOCK**. Press **SELECT**.
- 3 Press **↑** or **↓** to go to **OFF**, **PART** or **ON** and then press **SELECT**.

OFF: Unlocked, and full access allowed.

PART: Partial lockout, allowing only the temperature to be changed.

ON: No access allowed.

- 4 Press the **SAVE & EXIT** button.

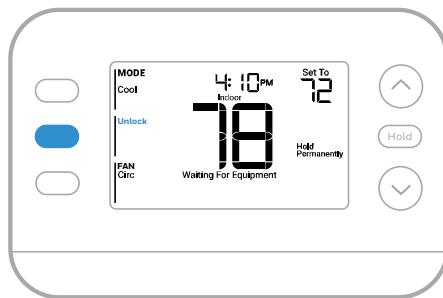


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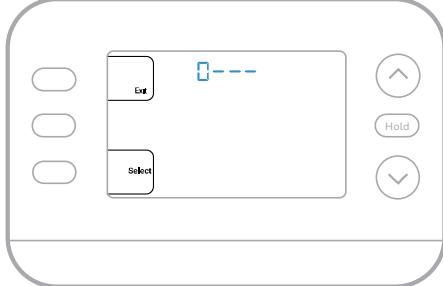
Unlocking the Keypad

- 1 If the keypad is locked (partially or fully) the display will show **UNLOCK** next to the left center button.
- 2 To unlock the keypad, press the left center button until the display shows **0 and three dashes** in the upper part of the display.
- 3 Enter the password "1234". To enter the password, press **↑** or **↓** to change the first digit of the Number.
- 4 Press **SELECT**.
- 5 Repeat this process to enter the second through fourth digits of the number. Once all four numbers have been entered, press **SELECT** again. This will unlock the keypad.
- 6 If entered incorrectly, press **BACK** to go back a step to enter the correct number and press **SELECT**.

The Keypad Lockout option is available in the user menu **ONLY IF** the installer has specifically configured the thermostat to allow this option.



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Adaptive Intelligent Recovery

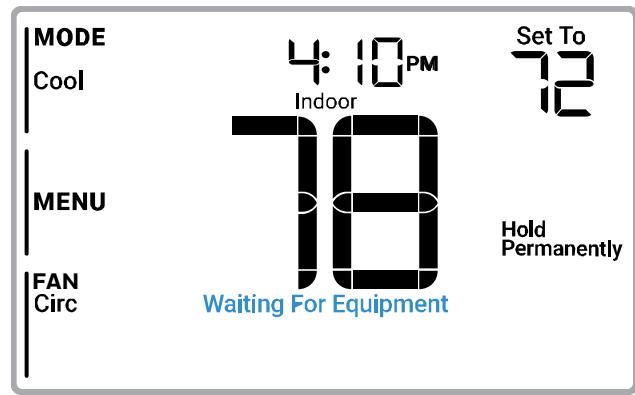
Over time, the FocusPRO P200 Thermostat “learns” how long it takes your system to reach your desired temperatures. The thermostat will activate the heating or cooling system as needed to make sure you’re comfortable at the times you expect.

The words **Active Recovery** appear under the room temperature in the display when the thermostat is going from a **setback** temperature to a **comfort** temperature.

Built-in Compressor Protection

Damage can occur if your system’s compressor is restarted too soon after shutdown. This feature forces the compressor to wait for a few minutes before restarting. During the wait time, the display will show the message **Waiting For Equipment** under the room temperature reading.

When the safe wait time has elapsed, the message disappears, and the thermostat will show “Heat on” or “Cool on”.



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Troubleshooting

Display is blank	<ul style="list-style-type: none"> Check circuit breaker and reset if necessary. Make sure power switch for heating & cooling system is on Make sure furnace door is closed securely. Make sure fresh AA alkaline batteries are correctly installed (See Battery Replacement)
Heating or cooling does not run	<ul style="list-style-type: none"> When running heat, display will show HEAT ON in lower right of display. When running cool, display will show COOL ON in lower right of display. If display shows WAITING FOR EQUIPMENT under temperature reading, it is in compressor delay mode to protect the system. Wait 5 minutes to see if the thermostat makes a Heat or Cool call. If display doesn't indicate a call for Heat or Cool or WAITING FOR EQUIPMENT, verify the mode setting, temperature setpoint and room temperature. <p>If you press the Up or Down arrow</p> <ul style="list-style-type: none"> Upper left of display shows mode setting. Upper right shows setpoint Center of display shows room temperature. <p>If issue persists</p> <ul style="list-style-type: none"> Check circuit breaker and reset if necessary. Make sure power switch at heating & cooling system is on Make sure furnace door is closed securely
Cannot change setpoint to desired setting	<ul style="list-style-type: none"> If display indicates UNLOCK next to the left center button, see Keypad Lockout section. If not, verify the mode setting (Heat, Cool, Auto, or Em Heat in upper left of display) <p>The default setting ranges for these modes are</p> <ul style="list-style-type: none"> Heat or Em Heat: 40 °F to 90 °F (4.5 °C to 32.0 °C)– Cool: 50 °F to 99 °F (10.0 °C to 37.0 °C) <p>If the setpoint can be adjusted, but not to the full range shown above, the installer may have configured the thermostat for a maximum heat or minimum cool setpoint to restrict settings that are energy inefficient.</p>
WAITING FOR EQUIPMENT Shown in display under room temperature	<p>The compressor protection feature is engaged. Wait a few minutes for the system to safely restart to avoid damaging the compressor. See the Built-in Compressor Protection section for more information</p>

Customer Assistance

For assistance with this product, please visit [customer.resideo.com](#) Or call Resideo Customer Care toll-free at 1-800-633-3991