



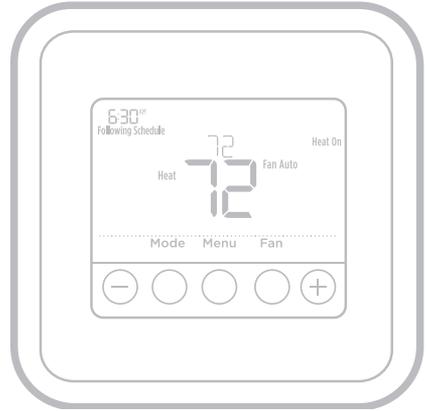
T4 Pro

Programmable Thermostat
TH4110U2005, TH4210U2002

User Guide

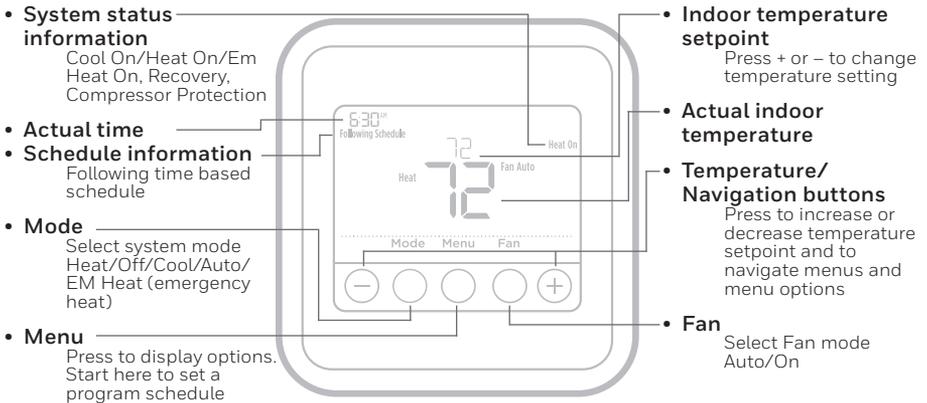
Package Includes:

- T4 Pro Thermostat
- UWP™ Mounting System
- Decorative Cover Plate
- Screws and Anchors
- 2 AA Batteries
- Thermostat Literature



Read before installing

Thermostat controls



The screen will wake up by pressing any of the five buttons. If powered by the C wire, the screen stays lit for 45 seconds after you complete changes. If powered by battery only, the screen stays lit for 8 seconds. Depending on how your thermostat was installed, the screen light may always be on.

Customer assistance

For assistance with this product, please visit [Honeywellhome.com/support](https://www.honeywellhome.com/support)

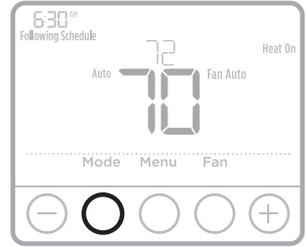
System operation settings

- 1 Press the **Mode** button to cycle to the next available System mode.
- 2 Cycle through the modes until the required System mode is displayed and leave it to activate.

NOTE: Available System modes vary by model and system settings.

System modes:

- **Auto**
- **Heat**
- **Cool**
- **Off**
- **Em. Heat** (TH4210U only)



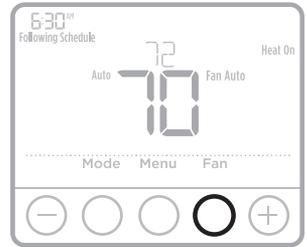
Fan operation settings

- 1 Press the **Fan** button to cycle to the next available Fan mode.
- 2 Cycle through the modes until the required Fan mode is displayed and leave it to activate.

NOTE: Available Fan modes vary with system settings.

Fan modes:

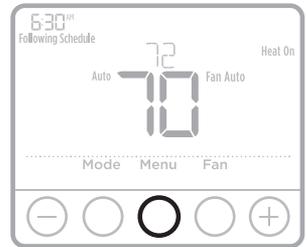
- **Auto:** Fan runs only when the heating or cooling system is on.
- **On:** Fan is always on.



Set the time and date

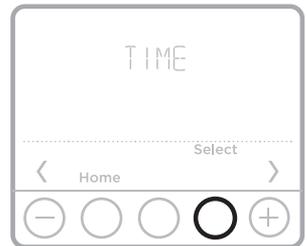
Time

- 1 Press **Menu**, and then press **+** to go to **TIME**. Press **Select**.
- 2 Press **+** or **-** to choose between 12 or 24 hour. Press **Select**.
- 3 Use **+** or **-** to adjust the hour. Press **Select**.
- 4 Use **+** or **-** to adjust the minutes. Press **Select** to exit Time menu.



Date

- 1 If previously setting time, continue to Step 2. If at the Home screen, press **Menu** on your thermostat.
- 2 Press **+** or **-** to go to **DATE**. Press **Select**.
- 3 Use **+** or **-** to adjust year. Press **Select**.
- 4 Use the **+** or **-** to adjust month. Press **Select**.
- 5 Use the **+** or **-** to adjust Date. Press **Select** to save and exit Date menu.



Program Schedule

You can program four time periods each day, with different settings for weekdays and weekends. We recommend the pre-sets (shown in the table below), since they can reduce your heating/cooling expenses.

Wake - Set to the time you wake up and the temperature you want during the morning, until you leave for the day.

Away - Set to the time you leave home and the temperature you want while you are away (usually an energy-saving level).

Home - Set to the time you return home and the temperature you want during the evening, until bedtime.

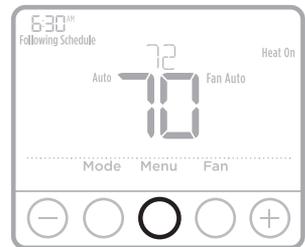
Sleep - Set to the time you go to bed and the temperature you want overnight (usually an energy-saving level).

NOTE: To temporarily or permanently override any of the above program schedules, see page 4.

	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°

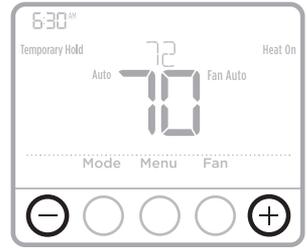
To adjust program schedules

- 1 Press **Menu** on your thermostat.
- 2 **PROG** is displayed. Press **Select**. Then **ON** is displayed. (If you do not want to use a schedule, press **+** or **-** to display **OFF**. Press **Select**.) Press **Select**.
- 3 Press **+** or **-** to select day or set of days to edit. Press **Select**.
- 4 Press **+** or **-** to select a schedule period to edit (Wake, Away, Home, and Sleep). Press **Select**.
- 5 **ON** is displayed. Press **Select** to keep the schedule period on. Or press **+** and then **Select** to turn off the schedule period.
- 6 Time starts blinking. Press **+** or **-** to adjust the schedule period start time. Press **Select**.
- 7 Temperature starts blinking. Press **+** or **-** to adjust the "Heat" setpoint temperature. Press **Select**. Press **+** or **-** to adjust the "Cool" temperature setpoint. Press **Select**.
- 8 Repeat steps 4 through 7 for the remaining schedule periods.
- 9 Press **Home** when you're finished to save and return to the home screen.
- 10 Schedule can be adjusted and turned **ON** or **OFF** by returning to **Menu** and following the steps provided above.



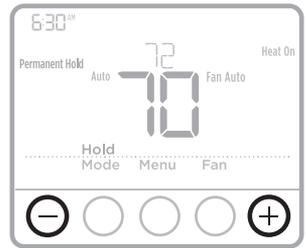
Program schedule override (temporary)

- 1 Press **+** or **-** 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 time period begins. For more information on schedule time periods, see “Program Schedule” on page 3.
- 3 To cancel the Temporary Hold, Press **+** or **-** and then press **Cancel**.



Program schedule override (permanent)

- 1 Press **+** or **-** to adjust the temperature.
- 2 **TEMPORARY HOLD** is displayed and the setpoint temperature flashes. While it's flashing, press **Hold** (Mode) button to change to Permanent Hold.
- 3 To cancel the Permanent Hold, press **+** or **-** and then press **Cancel**.



Adjusting 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 To unlock the keypad, press the **CENTER** button and then enter the password "1234". To enter the password, press **+** or **-** to change the first digit of the number. Then press **Select**. Repeat this process to enter the second through fourth digits of the number. Once all four numbers have been entered, press **Select** again.
- 5 This will unlock the keypad.
- 6 If the code is incorrect, the screen will flash the lines "--".
- 7 Press **Back** to go back a step to enter the correct number and press **Select**.

NOTE: On some models, the keypad lockout setting is only available in the installer menu and not available in the user menu.

Adjusting idle backlight display brightness

- 1 Press **Menu** on the thermostat.
- 2 Press **+** or **-** to go to **LITE**. Press **Select**.
- 3 Current brightness setting is displayed (1-5).
- 4 Press **+** or **-** to adjust backlight brightness.
- 5 Press **Select** to save and exit **LITE** menu.

NOTE: Backlight is only displayed if the C (common) wire is connected.

Adaptive Intelligent Recovery

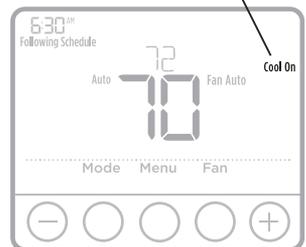
Over time, the T4 Pro Thermostat "learns" how long it takes your system to reach the temperature you want. It turns on the heating or cooling system earlier to make sure you're comfortable at the time you expect.

Built-in compressor protection

Damage can occur if the 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 flash the message **Cool On** (or **Heat On** if you have a heat pump). When the safe wait time has elapsed, the message stops flashing and the compressor turns on.

Message flashes until safe restart time has elapsed.



Battery replacement

Batteries are optional (to provide backup power) if your thermostat was wired to run on AC power when installed. If your thermostat was not wired to run on AC power, then batteries are required.

Install fresh batteries immediately when the low battery icon appears. The icon appears about two months before the batteries are depleted.

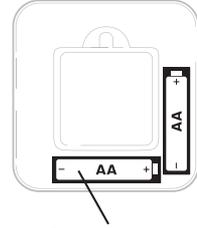
Even if the low battery icon does not appear, you should replace batteries once a year, or before leaving home for more than a month.

If batteries are inserted within two minutes, the time and day will not have to be reset. All other settings are permanently stored in memory, and do not require battery power.

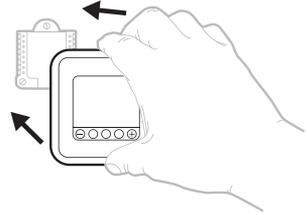
NOTE: When replacing batteries, alkaline batteries are recommended.



When the low battery warning appears, press gently to loosen the thermostat and then carefully pull it from the wall mount.



Insert fresh alkaline AA batteries and reinstall thermostat.

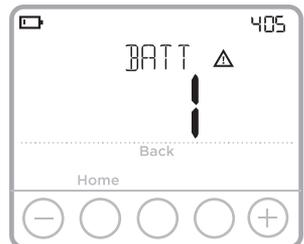


Alerts

If there is an alert or reminder, the alert icon  appears on the Home screen.

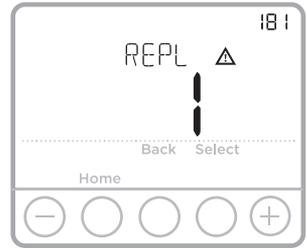
Low Battery Warning

- 1 The batteries need to be replaced when **BATT**, the alert icon , and the battery icon are displayed on the Home screen.
- 2 When the battery power is very low, the thermostat's backlight is disabled to save battery power.
- 3 When battery power is critically low, only **BATT**, the alert icon , and the battery icon are displayed.



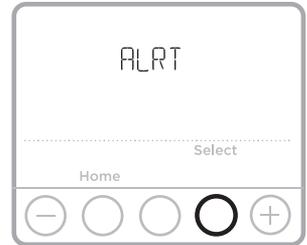
Air Filter Reminder

- 1 The alert icon  appears on the Home screen.
- 2 Press **Menu**, and then press  until display shows **ALRT**.
- 3 Press **Select** to display which alert(s) are present.
- 4 The message **REPL** (REPLACE AIR FILTER) appears.
- 5 The reminder can be snoozed or cleared. Resideo recommends changing the air filter before clearing the reminder.
- 6 To snooze, press **Select**. The word **SNZE** (SNOOZE) appears.
- 7 Press **Select** again to snooze the reminder for 7 days.
- 8 To clear, press **Select**, and then press  to go to **CLER** (Clear).
- 9 Press **Select** to clear the air filter reminder.



Snoozing and Clearing Alerts or Reminders*

- 1 Press **Menu**, and then press  until display shows **ALRT**.
 - 2 Press **Select** to display which alert(s) are present.
 - 3 The word **SNZE** (SNOOZE) appears.
 - 4 Press **Select** again to snooze the reminder for 7 days.
 - 5 To clear the alert, press **Select**, and then press  to go to **CLER** (Clear).
 - 6 Press **Select** to clear the reminder.
- * Some alerts cannot be snoozed or cleared. Please call your local heating and cooling professional if this occurs. The heating and cooling system may require service.



Troubleshooting

If you have difficulty with your thermostat, please try the following suggestions. Most problems can be corrected quickly and easily.

Display is blank

- 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 page 6).

Heating or cooling system does not respond

- Press Mode button to set system Heat (see page 2). Make sure the desired temperature is set higher than the inside temperature.
- Press Mode button to set system Cool (see page 2). Make sure the desired temperature is set lower than the inside temperature.
- Check circuit breaker and reset if necessary.
- Make sure power switch for heating & cooling system is on.
- Make sure furnace door is closed securely.
- Wait 5 minutes for the system to respond.

Temperature settings do not change

- If display says “unlock”; see page 5. If not, verify you are in the correct mode (heat, cool, em heat or auto); see page 2.
- If you are in the correct mode, but you cannot set the heat from 40 °F to 90 °F (4.5 °C to 32 °C), or set the cool from 50 °F to 99 °F (10 °C to 37 °C), you may have range-stops restricting your setting. Check with the installer to see if they set range-stops.

“Cool On” or “Heat On” is flashing

- Compressor protection feature is engaged. Wait 5 minutes for the system to restart safely, without damage to the compressor (see page 5).

Electrical Ratings

Terminal	Voltage (50 Hz/60 Hz)	Running Current
W Heating	20 Vac - 30 Vac	0.02 A - 1.0 A
W2 (Aux) Heating (TH4210U only)	20 Vac - 30 Vac	0.02 A - 1.0 A
E Emergency Heat (TH4210U only)	20 Vac - 30 Vac	0.02 A - 0.5 A
Y Compressor Stage 1	20 Vac - 30 Vac	0.02 A - 1.0 A
G Fan	20 Vac - 30 Vac	0.02 A - 0.5 A
O/B Changeover	20 Vac - 30 Vac	0.02 A - 0.5 A
L/A Input	20 Vac - 30 Vac	0.02 A - 0.5 A

5-year limited warranty

For warranty information go to [Honeywellhome.com/support](https://www.honeywellhome.com/support)

**CAUTION: ELECTRICAL HAZARD**

Can cause electrical shock or equipment damage. Disconnect power before beginning installation.

**CAUTION: EQUIPMENT DAMAGE HAZARD**

Compressor protection is bypassed during testing. To prevent equipment damage, avoid cycling the compressor quickly.

**CAUTION: MERCURY NOTICE**

If this product is replacing a control that contains mercury in a sealed tube, do not place the old control in the trash. Contact your local waste management authority for instructions regarding recycling and proper disposal.

**CAUTION: ELECTRONIC WASTE NOTICE**

The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent negative consequences for the environment and human health.

FCC statement at:

<https://customer.resideo.com/en-US/support/residential/codes-and-standards/FCC15105/Pages/default.aspx>

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