Welcome

This user guide is designed to help you get acquainted with your new T6 Pro Z-Wave thermostat. Check out the table of contents on page 2 to browse by topic.

Need help? Get in touch.

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Thermostat features

The Honeywell T6 Pro Z-Wave Programmable Thermostat is a Z-Wave Plus certified thermostat designed to work with any Z-Wave compliant controller or gateway for easy programming and automation to deliver energy savings and comfort at the same time. When integrated with the app that controls your Z-Wave controller, it lets you program and control your home’s HVAC system as well as control other Z-Wave devices connected to the same Z-Wave controller.

**Smart Scheduling:** You can choose whether you want the thermostat to follow just Home/Away temperature triggered by your Z-Wave controller or if home, whether you want to differentiate between Home/Sleep temperature.

The T6 Pro Z-Wave thermostat can also work as regular programmable thermostat when disconnected from your Z-Wave network. You can program a schedule where every day is different or a schedule where weekdays and weekends are different with four periods per day.

**Displays ambient air temperature, % relative indoor humidity and reports HVAC system status:** You can display actual temperature or % relative humidity, or to see whether your cooling / heating system is running.

**Auto change from heat to cool:** When Auto mode is selected, the T6 Pro Z-Wave thermostat can automatically determine whether your home needs heating or cooling to reach the desired temperature at the right time.

**Smart Alerts:** The T6 Pro Z-Wave thermostat can alert you when your HVAC system is not working properly and can remind you for things like when to change your furnace filter.

**Adaptive Intelligent Recovery:** The T6 Pro Z-Wave thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it.
Thermostat overview

Desired temperature
Shows desired indoor temperature.

Indoor Temperature/
% Relative Indoor Humidity
Touch to display either the current indoor temperature or current % relative indoor humidity.

Adjust temperature
Touch + or – to set your desired temperature.

Mode
Touch to select system mode:
• Auto (if enabled)
• Heat
• Cool
• Off
• Em Heat (Emergency Heat)

Menu
Touch to program a schedule and see other customizable options.

Fan
Touch to select fan mode:
• Auto
• On
• Circulate

Adjusting the temperature
To adjust the desired temperature up or down, touch + or – on the thermostat home screen.

How long the change will be held depends on whether your thermostat is included or excluded in Z-Wave network and what schedule type is selected.
Program schedule overrides

If the thermostat is included in Z-Wave network it typically follows the setting on your Z-Wave controller. If you adjust the temperature setpoint, it overrides the current setpoint until away state or new temperature setpoint is received from Z-Wave controller. Setting of Hold until time and Permanent hold (see below) will not be available on the thermostat screen.

If the thermostat is not included in the Z-Wave network and the thermostat is following time based schedule, you can set what time the new temperature setpoint will be held until or you can hold the new setpoint permanently.

There are several scheduling options available for the thermostat. For more information go to page 12.

Program schedule override (temporary)

1. Touch + or - on the thermostat home screen to set your desired temperature. Hold Until will appear together with the time the hold will end.

2. To change when the hold will end, touch the time and wait until the time starts blinking. Then, touch + or - to set when you want the hold to end. Touch Hold Until once more to confirm changes and return to the home screen.

After the hold period ends, the thermostat will automatically return to the program schedule. If you want to cancel the hold, touch Hold Until and then touch Run Schedule.

Program schedule override (permanent)

1. Touch + or - on the thermostat home screen to reach your desired temperature. Hold Until will appear together with the time you want the hold to end.

2. Touch Hold Until. Permanent Hold will appear on screen. Touch Permanent Hold to hold this temperature until you manually change it.

To end permanent hold and return to the program schedule, touch Permanent Hold and then touch Run Schedule.
Adjusting the temperature in Auto mode

Auto mode (when the thermostat automatically chooses heating or cooling to reach your desired temperature) is disabled by default. If your heating or cooling professional enabled it, you’ll see Auto appear as an option under Mode on the thermostat home screen.

To choose your preferred temperatures for both heating and cooling in Auto mode, follow the steps below.

1. Touch Mode on the thermostat home screen until Auto appears. Then touch ↑ or ↓ to choose your preferred temperature for the mode that’s currently active (heating or cooling).
2. Next, touch the text area where the active mode is displayed to switch to the inactive mode.
3. Touch ↑ or ↓ to choose your preferred temperature in the other mode. After 5 seconds of inactivity, your setting will take effect, and the thermostat screen will show the set point of the active mode.
Selecting system mode

Current system mode (Heat, Cool, Off, Em Heat) is displayed to the left of current indoor temperature on the thermostat home screen.

The mode that’s currently running (Heat On, Cool On, Em Heat On) is displayed in the upper-left corner of the thermostat home screen.

To cycle through the available modes, touch **Mode** on the thermostat home screen and select the appropriate mode for your desired temperature.

- **Heat**: Controls the heating system.
- **Cool**: Controls the cooling system.
- **Off**: Turns the heating and cooling systems off.
- **Auto**: When enabled, the thermostat will automatically use heating or cooling to reach the desired temperature.
- **Em Heat**: Controls auxiliary or emergency heat; only available on systems with a heat pump.

Notes:

- Em Heat and Auto modes may not appear on the thermostat screen depending on your equipment and how your thermostat was installed.
- Em Heat is only available for heat pump systems. The thermostat must also be configured to control a heat pump and an auxiliary/emergency heat stage.
- When Auto mode is selected, Auto Chg. On will appear in the upper-right corner of the thermostat home screen, and the active mode (Heat or Cool) will display under Mode. To set your temperature preferences in Auto mode, see page 6.
Built-in compressor protection

If the compressor is restarted too soon after a shutdown, system damage can occur. The built-in compressor protection feature forces the compressor to wait a few minutes before restarting, helping to prevent damage to the heating or cooling system.

During the brief wait period, the thermostat will flash Cool On (or Heat On if you have a heat pump) until the wait period is over, at which point the compressor will turn back on.

**Note:** The flashing Cool On or Heat On message is also used for startup delay protection if AC power loss occurs.

Setting the fan

Touch **Fan** on the thermostat home screen to cycle through available fan modes until the desired mode is displayed. Your changes will save automatically.

Available fan modes:

- **On:** The fan will run continuously.
- **Auto:** The fan will run only when the heating or cooling system is on.
- **Circ:** The fan will run at random intervals at least 35% of the time to keep air circulating throughout your home.
To include or exclude the thermostat from Z-Wave network, go to thermostat MENU/Z-WAVE SETUP.

- Touch Select. You will be asked to set your primary controller to INCLUDE MODE. Please refer to the user manual of your Z-Wave controller.

- After inclusion procedure has been initiated on your Z-Wave controller, touch Select on the thermostat.

- If the inclusion procedure is successful, "INCLUDED", the node ID, and the Z-Wave connected status icon appear on the screen. If the procedure fails, "FAILED TO INCLUDE" appears on the screen.

- Your controller will indicate whether the thermostat was successfully added to its network. (Please refer to the user manual of your Z-Wave controller.)

NOTES:

- Before adding the thermostat to a Z-Wave network, check that it does not already belong to one. If the thermostat is included in Z-Wave network, it offers to exclude. If the thermostat is excluded from Z-Wave network, it offers to include. You can also check the status by viewing the Node ID located in the thermostat MENU/DEVICE INFO. An excluded thermostat should show zero for the Node ID (000).

- Whether you are including or excluding thermostat from your Z-Wave network, first you have to initiate it on your Z-Wave controller. Please refer to the user manual of your Z-Wave controller.

- For other specific tasks, such as adding the thermostat to home automation scenes or groups, refer to the Z-Wave controller instructions.

- The T6 Pro Z-Wave thermostat works in the optional Z-Wave battery mode or normal power mode based on its power source. The Z-Wave power mode can only be changed when thermostat is NOT included in Z-Wave network. You can check the power mode in the thermostat menu under MENU/DEVICE INFO.

- If 24 VAC power source is not used or available, the thermostat must be powered by batteries. The thermostat will operate in LSS mode (power-save, sleep mode) to help conserve battery life after it has been included in a Z-Wave network. The Z-Wave radio supports beaming. It allows other devices in the network to wake up the Z-Wave thermostat, accept commands, and then go back to sleep.

- If you need the thermostat to operate AOS mode (always listening mode) to act as signal repeater and to increase network reliability, you need to ask your professional installer to power the thermostat by 24 VAC.
Z-Wave connection status

Z-Wave connection status is located in the upper-right corner of the screen.

- ● Thermostat is included and connected to a Z-Wave network.
- ● Thermostat is excluded from a Z-Wave network.
- ● Thermostat is either included in a Z-Wave network but the Z-Wave signal is lost, or is included but AC power is lost (battery used as backup). In this case, Z-Wave radio is turned off to preserve battery life. AC power must be restored or you have to change the power mode. It can be done via excluding thermostat from Z-Wave network and including again in battery power mode where batteries are used as main power source. You can check the actual power mode in the thermostat MENU/DEVICE INFO.
Main menu overview

Touch Menu on the thermostat screen and then use the or arrows to page through the following options.

**SCHEDULE**
Create and edit a schedule for your thermostat to follow. (Available to edit only if time based schedule or smart schedule is configured.)

**CLEAN SCREEN**
Disable the touchscreen for 30 seconds so you can clean it.

**TEMP SCALE**
Choose Fahrenheit or Celsius.

**AWAY SETTING**
Set energy saving temperature setpoints for when you are away. (Available if thermostat is included in Z-Wave network.)

**RESET**
Schedule: Resets to the default Monday–Friday, Saturday–Sunday schedule.

**EQUIPMENT STATUS**
View current status of your heating or cooling equipment.

**DEVICE INFO**
View your thermostat’s device information, such as Z-Wave power mode, Z-Wave node, home ID, and model number.

**SCREEN LOCK**
Lock the screen to limit access to thermostat settings.

**ALERTS**
View, snooze or dismiss active alerts and reminders (available only when you see the active alert symbol on the thermostat home screen).

Navigating the menus

**Menu:** Touch to access all options and sub-menus.

or : Touch to page through options and sub-menus.

or : Touch to adjust things such as temperature, time and date.

**Back** or **Cancel:** Touch to discard changes or go back to the previous menu.

**Select:** Touch to access a sub-menu.

**Done:** Touch to confirm selection.

**Tip:** You can touch **Select** to access a sub-menu, or you can touch the text in the message area (the word SCHEDULE, for example).
Scheduling options

The T6 Pro Z-Wave thermostat offers flexible scheduling. The options available differ depending on whether the thermostat is included/excluded from Z-Wave network.

1. No schedule
2. Time based schedule
3. Occupancy based schedule
4. Smart schedule

If the thermostat is not included in Z-Wave network:
The thermostat can be set as non-programmable (1), or you can program and follow a Time based schedule (2) based on the time of day or day of the week.

The default program schedule is 5-2 (Mon-Fri; Sat-Sun), with different settings for weekdays and weekends, four time periods per day. See the table below for the default settings, which have adjustable periods and temperature setpoints.

### Time based schedule:

<table>
<thead>
<tr>
<th>Period</th>
<th>Start Time</th>
<th>Heat (Mon-Fri)</th>
<th>Cool (Mon-Fri)</th>
<th>Heat (Sat-Sun)</th>
<th>Cool (Sat-Sun)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wake</td>
<td>6:00 AM</td>
<td>70 °</td>
<td>78 °</td>
<td>70 °</td>
<td>78 °</td>
</tr>
<tr>
<td>Away</td>
<td>8:00 AM</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
<td>85 °</td>
</tr>
<tr>
<td>Home</td>
<td>6:00 PM</td>
<td>70 °</td>
<td>78 °</td>
<td>70 °</td>
<td>78 °</td>
</tr>
<tr>
<td>Sleep</td>
<td>10:00 PM</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
<td>85 °</td>
</tr>
</tbody>
</table>

If the thermostat is included in Z-Wave network:

It typically follows the settings of your Z-Wave controller. When not in Away mode, it can either follow your Home temperature setpoint based on occupancy states (Home/Away) sent by Z-Wave controller (3) or it can even differentiate between Home and Sleep temperature setpoints according to actual time period (4).

The default program schedule is the Smart schedule, 5-2 (Mon-Fri; Sat-Sun), with different settings for weekdays and weekends. See the table below for the default settings, which have adjustable periods and temperature setpoints.

### Smart Schedule:

<table>
<thead>
<tr>
<th>Period</th>
<th>Start Time</th>
<th>Heat (Mon-Fri)</th>
<th>Cool (Mon-Fri)</th>
<th>Heat (Sat-Sun)</th>
<th>Cool (Sat-Sun)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Away</td>
<td>N/A*</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
<td>85 °</td>
</tr>
<tr>
<td>Home</td>
<td>6:00 AM</td>
<td>70 °</td>
<td>78 °</td>
<td>70 °</td>
<td>78 °</td>
</tr>
<tr>
<td>Sleep</td>
<td>10:00 PM</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
<td>85 °</td>
</tr>
</tbody>
</table>

To turn the Smart schedule off and to use just Occupancy based schedule (Home/Away temperature setpoints only) go to thermostat MENU/SCHEDULE and turn the Time based schedule off. See table below with default, adjustable temperature setpoints.

### Occupancy based schedule:

<table>
<thead>
<tr>
<th>Period</th>
<th>Start Time</th>
<th>Heat</th>
<th>Cool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Away</td>
<td>N/A*</td>
<td>62 °</td>
<td>85 °</td>
</tr>
<tr>
<td>Home</td>
<td>N/A*</td>
<td>72 °</td>
<td>78 °</td>
</tr>
</tbody>
</table>

*Triggered by Z-Wave controller

NOTES (for when the thermostat is INCLUDED in Z-Wave network):

- Away mode is an Energy saving setback mode triggered by Z-Wave controller or gateway.
- Away setpoint is adjustable and common for all days, configurable in the thermostat MENU/AWAY SETTING.
- Home setpoint in the Occupancy based schedule is temperature setpoint adjustable on the thermostat Home screen. Common for all days.
- Home and Sleep setpoints in the Smart schedule are configurable in the thermostat MENU/SCHEDULE.
Schedule status
Active Time based schedule or Smart schedule is indicated by "Following Schedule" text in top left corner of the thermostat screen.

Schedule period
Shows current schedule period.
- Time-based schedule: Wake, Away, Home or Sleep.
- Smart schedule: Away, Home or Sleep.
- Occupancy based schedule: Away or Home.
- No schedule: Schedule periods are not displayed

Setting a schedule
To edit a schedule on the thermostat screen, follow the steps below.

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see SCHEDULE, then touch Select.
3. Touch the or arrows to select a period in a day or set of days, then touch Select on the period you want to edit.
4. Touch the time area, then touch or to adjust when the period starts. Touch Select to confirm.
5. Touch the temperature area, then touch or to adjust your preferred temperature for the mode that’s currently active (either heating or cooling). Touch Select to confirm. Then touch or to adjust your preferred temperature for the inactive mode. Touch Select to confirm.
6. Edit the next period or use the until you see DONE, then press Select to save changes and go to the home screen.

NOTES:
- Schedule menu is available only if time based schedule or smart schedule is configured.
- If not connected to Z-Wave network, Away setpoint is programmable for each day or group of days in MENU/SCHEDULE.
- If connected to Z-Wave network, Away setpoint is a common for all days, programmable in MENU/AWAY SETTING.
Reset schedule

To reset your schedule back to the default temperature setpoints (see page 12), follow steps below.

1. Touch **Menu** on the thermostat screen.
2. Touch the  or  arrows until you see **RESET**, then touch **Select**.
3. Touch the  or  arrows until you see **SCHEDULE**, then touch **Select**.
4. Touch **Yes** to confirm.

Screen lock settings

To prevent unauthorized access to the thermostat, or to limit changes to the system settings, there are two screen lock settings you can apply.

- **Partial lock**: Only the temperature can be changed.
- **Full lock**: No access is allowed without a PIN number.

Applying a screen lock setting

1. Touch **Menu** on the thermostat home screen.
2. Touch the  or  arrows until you see **SCREEN LOCK**, then touch **Select**.
3. Touch the  or  arrows to select your desired screen lock setting, then touch **Select**.
4. A PIN number will appear on screen. Write it down and keep it in a safe place.
5. Touch **Select**, and confirm your screen lock setting by touching **Yes**.

A partially or fully locked screen will be indicated by a lock symbol at the bottom of the thermostat screen.

Unlocking the screen

1. Touch the lock symbol  on the thermostat home screen.
2. When prompted to enter a PIN number, touch  or  to select the first number of the PIN code. Touch **Select** to confirm, and repeat for the remaining numbers.

When you enter the correct PIN, you’ll return to the thermostat home screen. To re-lock the screen after you’re done making changes, follow the steps above to apply a lock setting.
Adjusting backlight brightness

When the thermostat is in idle mode, you can adjust how bright you’d like the screen. You can choose a brightness level from 00 (display backlight is off, which is the default) up to 05 (maximum brightness). To adjust backlight brightness, follow the steps below.

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see BRIGHTNESS, then touch Select.
3. Touch or to adjust the brightness level, which will change immediately.
4. Touch Done to confirm.

NOTE: This setting is only available if thermostat is powered by 24 VAC. This setting only applies to times when thermostat is not touched. When adjusting settings thermostat is always at full brightness.

Enabling/disabling Adaptive Intelligent Recovery

Over time, your T6 Pro Z-Wave thermostat will learn how long it takes your system to reach the desired temperature. It can then turn on your heating or cooling equipment at the right time to make sure your home is comfortable by the time you expect. This feature is enabled by default. To disable it, follow the steps below.

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see RECOVERY, then touch Select.
3. Touch the or arrows to select RECOVERY ON or RECOVERY OFF, then touch Done to confirm.

When Adaptive Intelligent Recovery is active, you’ll see the recovery symbol in the upper-right corner of the thermostat screen.
Setting the time and date

Setting the time

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see CLOCK, then touch Select.
3. Touch the or arrows until you see SET TIME, then touch Select.
4. Press or to set the time (or press and hold the buttons to move more quickly). Touch Done when finished.
5. Set clock format (12 hours or 24 hours) and daylight saving time in the same CLOCK sub-menu.

Setting the date

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see DATE, then touch Select.
3. Touch or to set the month, then touch Select to confirm.
4. Continue to set day and year in the same way. Touch Select to save your changes.

Cleaning the thermostat screen

With the clean screen option, you can lock the thermostat screen so you don’t accidentally change your settings when you clean. Follow the steps below to activate clean screen mode.

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see CLEAN SCREEN, then touch Select.

The screen will deactivate for 30 seconds. A countdown timer will display the amount of time until screen reactivation.

Tip: To clean the thermostat screen, spray water or household cleaner onto a cloth, then use the cloth to clean the screen. Avoid abrasive cleaners and do NOT spray liquid directly on the thermostat.
Choosing Fahrenheit or Celsius
To select a temperature scale, follow the steps below.

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see TEMP SCALE, then touch Select.
3. Touch the or arrows to select FAHRENHEIT or CELSIUS then touch Done to save your changes.
4. Touch Back to return to the thermostat home screen.

Viewing equipment status
You can check the status of your heating or cooling equipment and fan by following the steps below. Please note that system data may vary depending on thermostat model and how the thermostat was installed.

1. Touch Menu on the thermostat home screen.
2. Touch the or arrows until you see EQMT STATUS, then touch Select.
3. Touch the or arrows to select which system you want status information on.

After 3 seconds, system status information will scroll on the screen.
Viewing thermostat information

To see your thermostat’s technical information, follow the steps below.

1. Touch **Menu** on the thermostat home screen.

2. Touch the ‹ or › arrows until you see **DEVICE INFO**, then touch **Select**.

3. Touch the ‹ or › arrows to view information such as:
   - Model Number
   - Power Mode
   - Z-Wave Node ID
   - Z-Wave Home ID
   - Serial Number
   - Date code
   - Firmware version
   - Z-Wave Firmware version
   - Z-Wave library
Battery replacement

Batteries are optional (to provide backup power) if your thermostat was wired to run on 24 VAC power when installed. If your thermostat was wired to run on 24 VAC power, then batteries are NOT required.

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

Even if the low battery alert 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.

NOTES:

• When replacing batteries, alkaline batteries are recommended.

• When the battery power is low, the thermostat’s backlight is disabled to save battery power.

• When battery power is critically low, only the alert icon and the battery icon are displayed, and the thermostat cannot control your HVAC system. Batteries must be replaced immediately.

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

Insert fresh alkaline AA batteries and reinstall thermostat. Match the polarity of the batteries with the + / – marks inside the battery compartment.
Alerts and maintenance reminders

The T6 Pro Z-Wave thermostat comes with a set of Smart Alerts that helps keep your heating and cooling system running correctly and efficiently. If Smart Alerts are set up by your HVAC professional, you can get reminders when it’s time to change the filter and when your system is not running correctly.

Non-critical alerts and maintenance reminders can be snoozed for up to 7 days and/or dismissed. Some critical alerts cannot be snoozed or dismissed as your heating or cooling system may require service.

When there’s an active alert or maintenance reminder, you’ll see the alert symbol on the thermostat home screen. To see alert information, follow the steps below.

1. Touch **Menu** on the thermostat home screen, then you’ll see the ALERTS sub-menu. (The ALERTS sub-menu will only be available when there’s an active alert.)
2. Touch **Select** to view the alert. A 3-digit alert code will appear by the thermostat’s clock and a description of the alert will scroll on the screen.
3. If the alert is non-critical, you’ll have the option to Snooze or Dismiss it. If you have multiple alerts, touch the or arrows to page through the list of active alerts and follow steps 1 and 2 above.

To see what each 3-digit alert code means and the action you should take, refer to the chart below.

<table>
<thead>
<tr>
<th>Number</th>
<th>Alert/Reminder</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
<td>Thermostat Humidity Sensor Error</td>
<td>The sensor of the thermostat has encountered an error. Please contact dealer to replace the thermostat.</td>
</tr>
<tr>
<td>164</td>
<td>Heat Pump Needs Service</td>
<td>Heat pump needs service. Contact dealer to diagnose and service heat pump.</td>
</tr>
<tr>
<td>170</td>
<td>Internal Memory Error</td>
<td>The memory of the thermostat has encountered an error. Please contact dealer for assistance.</td>
</tr>
<tr>
<td>171</td>
<td>Set the Date and Time</td>
<td>Set the date and time on your thermostat. The date and time are required for certain features to operate, like the program schedule.</td>
</tr>
<tr>
<td>173</td>
<td>Thermostat Temperature Sensor Error</td>
<td>The sensor of the thermostat has encountered an error. Please contact dealer to replace the Thermostat.</td>
</tr>
<tr>
<td>177</td>
<td>Indoor Temperature Sensor Error</td>
<td>Wired indoor temperature sensor is not connected or there is a wiring short. Please contact dealer for assistance.</td>
</tr>
<tr>
<td>178</td>
<td>Outdoor Temperature Sensor Error</td>
<td>Wired outdoor temperature sensor is not connected or there is a wiring short. Please contact dealer for assistance.</td>
</tr>
<tr>
<td>181</td>
<td>Replace Air Filter (1)</td>
<td>Replace air filter (1). Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>182</td>
<td>Replace Air Filter (2)</td>
<td>Replace air filter (2). Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>Number</td>
<td>Alert/Reminder</td>
<td>Definition</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>184</td>
<td>Replace Humidifier Pad</td>
<td>Replace humidifier pad. Reset the timer by touching the “dismiss” button on the thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>185</td>
<td>Replace Dehumidifier Filter</td>
<td>Replace the dehumidifier filter. Reset the timer by touching “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>186</td>
<td>Clean Ventilator Core</td>
<td>Clean ventilator core. Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>187</td>
<td>Clean or Replace Ventilator Filter</td>
<td>Clean or replace ventilator filter. Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>188</td>
<td>Replace UV Bulb (1)</td>
<td>Replace UV Bulb (1). Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>189</td>
<td>Replace UV Bulb (2)</td>
<td>Replace UV Bulb (2). Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>252</td>
<td>AC Power Lost</td>
<td>If batteries used as backup power it will drain batteries quickly and Z-Wave communication needs to be turned off. The working power mode can only be changed when thermostat is NOT included in a Z-Wave network. Either to exclude and include thermostat in to Z-Wave network to change the power mode to LSS (power-save, sleep mode) or to resume AC power. You can check the actual power mode in the thermostat MENU/DEVICE INFO.</td>
</tr>
<tr>
<td>405</td>
<td>Battery Low</td>
<td>Battery low. Please turn the system mode to off and replace the batteries.</td>
</tr>
<tr>
<td>407</td>
<td>Battery Critical</td>
<td>Battery critical. Thermostat cannot control your system. Please replace the batteries immediately.</td>
</tr>
<tr>
<td>546</td>
<td>Z-Wave Not Configured</td>
<td>Z-Wave has not been configured yet to receive commands from your Z-Wave network. Please follow steps on how to include thermostat in to Z-Wave network.</td>
</tr>
<tr>
<td>547</td>
<td>Z-Wave Radio Error</td>
<td>Z-Wave module is not operating. Thermostat cannot receive commands from your Z-Wave network. Please contact dealer to replace the thermostat.</td>
</tr>
</tbody>
</table>
Troubleshooting

Screen is blank
- Check circuit breaker and reset if necessary.
- Make sure power switch at heating and cooling system is on.
- Make sure furnace door is closed securely.
- If battery powered, make sure the batteries are fresh and correctly inserted.

Screen is difficult to read
- Change screen brightness in thermostat Menu. Increase brightness intensity for inactive backlight of the thermostat screen (max. is level 5). Setting is only available if thermostat is AC powered.

Heating or cooling system does not respond
- Touch Mode to set system to Heat. Make sure the temperature is set higher than the Inside temperature.
- Touch Mode to set system to Cool. Make sure the temperature is set lower than the Inside temperature.
- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.

Temperature settings do not change
Your installer may have set a range stop setting for heat or cooling. Contact your installer to verify the range stop settings on the thermostat. Default range stops settings are:
- 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)

“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 8).
5-year warranty

Honeywell warrants this product, to be free from defects in the workmanship or materials, under normal use and service, for a period of five (5) 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,

(i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it; or

(ii) call Honeywell Customer Care at 1-800-468-1502. Customer Care will make the determination whether the product should be returned to the following address: Honeywell Return Goods, Dock 4 MN10-3860, 1985 Douglas Dr. N., Golden Valley, MN 55422, 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 states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY HONEYWELL MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE FIVE-YEAR DURATION OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If you have any questions concerning this warranty, please write Honeywell Customer Relations, 1985 Douglas Dr, Golden Valley, MN 55422 or call 1-800-468-1502.
General system information

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 the T6 Pro Z-Wave thermostat is replacing a thermostat that contains mercury in a sealed tube, do not place the old thermostat in the trash. Please contact your local waste management authority for proper recycling or disposal instructions.

Regulatory information

FCC REGULATIONS
§ 15.19 (a)(3)
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

• This device may not cause harmful interference, and
• This device must accept any interference received, including interference that may cause undesired operation.

IC REGULATIONS

RSS-GEN
This device complies with Industry Canada’s license-exempt RSSs. Operation is subject to the following two conditions:

• This device may not cause interference; and
• This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Warning (Part 15.21) (USA only)
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Home and Building Technologies
In the U.S.:
Honeywell International Inc.
715 Peachtree Street NE
Atlanta, GA 30308
http://customer.honeywell.com
Package Includes:

- T6 PRO Z-Wave Thermostat
- UWP™ Mounting System
- Honeywell Standard Installation Adapter (J-box adapter)
- Honeywell Decorative Cover Plate – Small; Size 4-49/64 in = 121mm.
- Screws and anchors
- 3 AA batteries
- Professional Install Guide
- Getting Started Guide

Compatibility

- Designed for battery operation (3 x AA batteries) or for 24 VAC power operation (via a “C” or common wire).
- Compatible with most single and multi-stage conventional and heat pump systems.
- Designed to work with any Z-Wave compliant controller or gateway; however, a security enabled Z-Wave Plus Controller is recommended to fully utilize all thermostat features.
- Works with millivolt systems.
- Does not work with electric baseboard heat (120-240V).

User Guide

Visit yourhome.honeywell.com for a complete user guide.

Customer assistance

For assistance with this product, please visit customer.honeywell.com. Or call Honeywell Customer Care toll-free at 1-800-468-1502.
Introduction

The Honeywell T6 Pro Z-Wave Programmable Thermostat is a Z-Wave Plus certified thermostat capable of controlling up to three heat and two cool stages of heat pump, (incl. dual fuel heat pump systems) and up to two heat and two cool stages of conventional system (3H/2C HP, 2H/2C Conv.)

It is one of the easiest smart thermostats to install and is controllable by all Z-Wave compliant controllers that have the control capability for "Thermostat" devices. When integrated with the app that controls your Z-Wave controller, it lets you to program and control your home’s HVAC system as well as controlling other Z-Wave devices connected to the same Z-Wave controller.

Because the thermostat is battery-powered, low-voltage integrators can easily connect the thermostat to most HVAC systems. Optional 24 VAC powering via “C” or common wire is also available, if desired.

CAUTION

• We strongly recommend that installation is performed by a trained HVAC technician.
• Read the enclosed instructions carefully before installing the new Honeywell T6 Pro Z-Wave Programmable Thermostat.
• ELECTRICAL HAZARD: Can cause electrical shock or equipment damage. Disconnect power before beginning installation.
• To prevent abnormal operation, it is highly recommended to configure the installer setup and set the thermostat to correct HVAC system before including the thermostat to Z-Wave network.
• Before disconnecting wires from the existing thermostat, label the wires with the terminal markings from the old thermostat and record them. Take a picture of the old wiring.
• Use 3 new AA batteries in the thermostat.
UWP Mounting System installation

1. Open package to find the UWP. See Figure 1.
2. Position the UWP on the wall. Level and mark hole positions. See Figure 2.
   Drill holes at marked positions, and then lightly tap supplied wall anchors into wall using a hammer.
   - Drill 7/32” holes for drywall.
3. Pull the door open and insert wires through wiring hole of the UWP. See Figure 3.
4. Place the UWP over the wall anchors. Insert and tighten mounting screws supplied with the UWP. Do not overtighten. Tighten until the UWP no longer moves. Close the door. See Figure 4.

Optional Decorative Cover Plate installation

Use the Optional Cover Plate when:
• Mounting the thermostat to an electrical junction box
• Or when you need to cover paint gap from the old thermostat.
5. Separate the Junction Box Adapter from the Cover Plate. See Figure 5.
6. Mount the Junction Box Adapter to the wall or an electrical box using any of the eight screw holes. Insert and tighten mounting screws supplied with Cover Plate Kit. Do not overtighten. Make sure the Adapter Plate is level. See Figure 6.
7. Attach the UWP by hanging it on the top hook of the Junction Box Adapter and then snapping the bottom of the UWP in place. See Figure 7.
8. Snap the Cover Plate onto the Junction Box Adapter. See Figure 8.
**Power options**

Insert **R** and **C** wires into designated terminals for primary AC power (C terminal is optional if batteries are installed, but it is recommended). Remove wires by depressing the terminal tabs.

Insert 3 AA batteries for primary or backup power. Match the polarity of the batteries with the + / – marks inside the battery compartment.

**NOTES:**
- The T6 Pro Z-Wave thermostat works in battery mode or normal power mode based on its power source. The Z-Wave power mode can only be changed when the thermostat is NOT included in a Z-Wave network. You can check the power mode in the thermostat menu under **MENU/DEVICE INFO**.
- If a C wire is not used, or present, the thermostat must be powered by batteries. The thermostat will operate in LSS mode (power-save, sleep mode) to help conserve battery life after it has been included in a Z-Wave network. The Z-Wave radio supports beaming. It allows other devices in the network to wake up the Z-Wave thermostat, accept commands, and then go back to sleep.
- If you need the thermostat to operate in AOS mode (always listening mode) to act as signal repeater and to increase network reliability, you need to power the thermostat by 24 VAC. The AOS mode information is provided via Node Information Frame (NIF).

**Wiring UWP**

Push down on the tabs to put the wires into the inner holes of their corresponding terminals on the UWP (one wire per terminal) until they are firmly in place. **Gently tug on the wires to verify they are secure.** If you need to release the wires again, push down the terminal tabs on the sides of the UWP.

This wiring is just an example, yours may vary.
### Setting Slider Tabs

Set R Slider Tab.

- Use built-in jumper (*R Slider Tab*) to differentiate between one or two transformer systems.
- If there is only one R wire, and it is connected to the R, Rc, or RH terminal, set the slider to the up position **(1 wire)**.
- If there is one wire connected to the R terminal and one wire connected to the Rc terminal, set the slider to the down position **(2 wires)**.

**NOTE:** Slider Tabs for U terminals should be left in place for other thermostat models.

### Wiring terminal designations

<table>
<thead>
<tr>
<th>S</th>
<th>Input for wired indoor or outdoor sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>L/A - A</td>
<td>Heat Pump fault input</td>
</tr>
<tr>
<td>O/B</td>
<td>Changeover valve</td>
</tr>
<tr>
<td>AUX - W2</td>
<td>Auxiliary heat relay Heat relay (stage 2)</td>
</tr>
<tr>
<td>E</td>
<td>Emergency Heat relay</td>
</tr>
<tr>
<td>W</td>
<td>Heat relay (stage 1)</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common. For 2 transformer systems, use common wire from cooling transformer.</td>
</tr>
<tr>
<td>K</td>
<td>Connect to K on Wire Saver Module**</td>
</tr>
<tr>
<td>R</td>
<td>24 VAC power from heating transformer*</td>
</tr>
<tr>
<td>Rc</td>
<td>24 VAC power from cooling transformer*</td>
</tr>
</tbody>
</table>

* Terminal can be jumped using Slider Tab. See “Setting Slider Tabs” above.

** The THP9045A1023 Wire Saver Module can be used on heat/cool systems when you only have four wires at the thermostat, and you need a fifth wire for a common wire. Use the K terminal in place of the Y and G terminals on conventional or heat pump systems to provide control of the fan and the compressor through a single wire—the unused wire then becomes your common wire. See THP9045 instructions for more information.

Note: Not all terminals may be used, depending on the system type that is being wired. The most commonly used terminals are shaded.
Wiring conventional systems: forced air and hydronics

1H/1C System (1 transformer)

R  Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y  Compressor contactor
C  24 VAC common [3]
W  Heat relay
G  Fan relay

Heat-only System

R  Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
C  24 VAC common [3]
W  Heat relay

Heat-only System (Series 20) [5]

R  Series 20 valve terminal “R” [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y  Series 20 valve terminal “W”
C  24 VAC common [3]
W  Series 20 valve terminal “B”

Heat-only System
(power open zone valve) [5]

R  Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
W  Valve
C  24 VAC common [3]

1H/1C System (2 transformers)

R  Power (heating transformer) [1]
Rc  Power (cooling transformer) [1]
Y  Compressor contactor
C  24 VAC common [3, 4]
W  Heat relay
G  Fan relay

Heat-only System with Fan

R  Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
C  24 VAC common [3]
W  Heat relay
G  Fan relay

Cool-only System

R  Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y  Compressor contactor
C  24 VAC common [3]
G  Fan relay

2H/2C System (1 transformer) [6]

R  Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y  Compressor contactor (stage 1)
C  24 VAC common [3]
W  Heat relay (stage 1)
G  Fan relay
W2  Heat relay (stage 2)
Y2  Compressor contactor (stage 2)

NOTES:

• Available wiring configurations may differ by product models/product numbers.

• Wire specifications: Use 18- to 22-gauge thermostat wire. Shielded cable is not required.


[2] Move R-Slider Tab on UWP to the R setting. For more information, see “Setting Slider Tabs” on page 5.


[4] If you do not have separate wires for the Aux and E terminals, connect the wire to the Aux terminal.

[5] In Installer Setup Options (ISU), set system type to Boiler. Set number of cool stages to 0.

[6] In Installer Setup Options (ISU), set system type to Conventional. Set cool stages to 2, and set heat stages to 2.
Wiring heat pump systems

1H/1C Heat Pump System
R   Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y   Compressor contactor
C   24 VAC common [3]
O/B Changeover valve [7]
G   Fan relay

2H/1C Heat Pump System [8]
R   Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y   Compressor contactor
C   24 VAC common [3]
O/B Changeover valve [7]
G   Fan relay
Aux Auxiliary heat [4]
E   Emergency heat relay [4]
L   Heat pump fault input

R   Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y   Compressor contactor (stage 1)
C   24 VAC common [3]
O/B Changeover valve [7]
G   Fan relay
Y2  Compressor contactor (stage 2)
L   Heat pump fault input

3H/2C Heat Pump System [10]
R   Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y   Compressor contactor (stage 1)
C   24 VAC common [3]
O/B Changeover valve [7]
G   Fan relay
Aux Auxiliary heat [4]
E   Emergency heat relay [4]
Y2  Compressor contactor (stage 2)
L   Heat pump fault input

Dual Fuel System
R   Power [1]
Rc  [R+Rc joined by Slider Tab] [2]
Y   Compressor contactor (stage 1)
C   24 VAC common [3]
O/B Changeover valve [7]
G   Fan relay
Aux Auxiliary heat [4]
E   Emergency heat relay [4]
Y2  Compressor contactor (stage 2 - if needed)
L   Heat pump fault input
S   Outdoor sensor
S   Outdoor sensor

NOTES:
• Do NOT use W for heat pump applications. Auxiliary heat must wire to AUX or E.
• Available wiring configurations may differ by product models/product numbers.
• Wire specifications: Use 18- to 22-gauge thermostat wire. Shielded cable is not required.

[2] Move R-Slider Tab on UWP to the R setting. For more information, see “Setting Slider Tabs” on page 5.
[4] If you do not have separate wires for the Aux and E terminals, connect the wire to the Aux terminal.
[5] In Installer Setup Options (ISU), set system type to Heat Pump. Set compressor stages to 2, and set Aux/E stages to 0.
[6] In Installer Setup Options (ISU), set system type to Heat Pump. Set compressor stages to 2, and set Aux/E stages to 0.
[7] In Installer Setup Options (ISU), set Reversing Valve to O/B on Cool (for cool changeover) or to O/B on Heat (for heat changeover).
[8] In Installer Setup Options (ISU), set heat system type to Heat Pump. Set compressor stages to 1, and set Aux/E stages to 1.
[9] In Installer Setup Options (ISU), set system type to Heat Pump. Set compressor stages to 2, and set Aux/E stages to 1.
Mounting thermostat

1. Push excess wire back into the wall opening.
2. Close the UWP door. It should remain closed without bulging.
3. Align the UWP with the thermostat, and push gently until the thermostat snaps in place.
4. If needed, gently pull to remove the thermostat from the UWP.
5. Turn the power on at the breaker box or switch.

Initial installer setup

- After the T6 Pro Z-Wave thermostat has powered up, touch **START SETUP** on the thermostat.
- Touch \( \text{ or } \) to toggle between Installer Set Up (ISU) options.
- Touch **Edit** or touch text area, and then touch \( \text{ or } \) to edit default setup option.
- Touch **Done** or touch text area to confirm the setting or press **Cancel**.
- Touch \( \text{ or } \) to continue to setup another ISU option.
- To finish setup and save your settings, scroll to the **Finish** screen at the end of the ISU list.

NOTES:
- To see a list of all setup parameters, go to “Installer setup options (ISU) – advanced menu” on page 14. The thermostat displays the ISU name and the ISU number.
- To prevent abnormal operation, it is highly recommended to perform installer setup and set thermostat to correct HVAC system before including it in a Z-Wave network.
Z-Wave setup

After you finish the installer setup and set the date and time, you will be asked to set up a Z-Wave to include the thermostat into Z-Wave network.

- Touch **Yes** to include the thermostat in to Z-Wave network, or touch **No** if you want this to be done later.
- You'll be asked to set your primary controller to **INCLUDE MODE**. Please refer to the user manual of your Z-Wave controller.
- After inclusion procedure has been initiated on your Z-Wave controller, touch **Select** on the thermostat.

- If the inclusion procedure is successful, **INCLUDED**, the node ID, and the Z-Wave connected status icon appear on the screen. If the procedure fails, **FAILED TO INCLUDE** appears on the screen. If this happens, position the thermostat closer to the Z-Wave controller and repeat the inclusion procedure.
- Your controller will indicate whether the thermostat was successfully added to its network. (Please refer to the user manual of your Z-Wave controller.)

**NOTES:**

- To include or exclude the thermostat from Z-Wave network after initial thermostat setup, go to thermostat **MENU/Z-WAVE SETUP**.
- Before adding the thermostat to a Z-Wave network, check that it does not already belong to one. If the thermostat is included in Z-Wave network, it offers to exclude. If the thermostat is excluded from Z-Wave network, it offers to include. You can also check the status by viewing the **Node ID** located in the thermostat **MENU/DEVICE INFO**. An excluded thermostat should show zero for the Node ID (000).
- Whether you are including or excluding the thermostat from Z-Wave network, first you have to initiate it on your Z-Wave controller. Please refer to the user manual of your Z-wave controller.
- For other specific tasks such as adding the thermostat to home automation scenes or groups, refer to the user manual of your Z-Wave controller.

Z-Wave connection status

Z-Wave connection status is located in the upper-right corner of the screen.

- Thermostat is included and connected to a Z-Wave network.
- Thermostat is excluded from a Z-Wave network.
- Thermostat is either included in a Z-Wave network but the Z-Wave signal is lost, or is included but AC power is lost (battery used as backup). In this case, Z-Wave radio is turned off to preserve battery life. AC power must be restored or you have to change the power mode. It can be done via excluding thermostat from Z-wave network and including again in battery power mode where batteries are used as main power source. You can check the actual power mode in the thermostat **MENU/DEVICE INFO**.
System operation setting

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.

**System modes:**
- **Heat:** Controls the heating system.
- **Cool:** Controls the cooling system.
- **Off:** Turns the heating and cooling systems off.
- **Auto:** When enabled, the thermostat will automatically use heating or cooling to reach the desired temperature.
- **Em Heat:** Controls auxiliary or emergency heat; only available on systems with a heat pump.

**NOTES:**
- Em Heat and Auto modes may not appear on the thermostat screen, depending on your equipment and how the thermostat was configured.
- Em Heat is only available if the thermostat is configured to control a heat pump and an auxiliary/emergency heat stage.
- When Auto mode is enabled and initiated, **Auto Chg. On** will appear in the upper-right corner of the thermostat home screen, and the active mode (Heat or Cool) will be displayed. Auto mode is disabled by default. To enable it, see "Installer setup – advanced menu" on page 13.

Fan operation setting

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:**
- **On:** The fan will run continuously.
- **Auto:** The fan will run only when the heating or cooling system is on.
- **Circ:** The fan will run at random intervals at least 35% of the time to keep air circulating throughout your home.
Scheduling options

The T6 Pro thermostat offers flexible scheduling options, which differ depending on whether the thermostat is included/excluded from Z-Wave network.

1. No schedule
2. Time based schedule
3. Occupancy based schedule
4. Smart schedule

If the thermostat is not included in Z-Wave network:
The thermostat can be set as non-programmable (1), or you can program and follow a schedule based on the time of day and day of the week (2).

The default program schedule is 5-2 (Mon-Fri; Sat-Sun), with different settings for weekdays and weekends, four time periods per day. See the table below for the default settings, which have adjustable periods and temperature setpoints.

<table>
<thead>
<tr>
<th>Time based schedule:</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Period</td>
<td>Start Time</td>
<td>Heat (Mon-Fri)</td>
<td>Cool (Mon-Fri)</td>
<td>Heat (Sat-Sun)</td>
</tr>
<tr>
<td>Wake</td>
<td>6:00 AM</td>
<td>70 °</td>
<td>78 °</td>
<td>70 °</td>
</tr>
<tr>
<td>Away</td>
<td>8:00 AM</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
</tr>
<tr>
<td>Home</td>
<td>6:00 PM</td>
<td>70 °</td>
<td>78 °</td>
<td>70 °</td>
</tr>
<tr>
<td>Sleep</td>
<td>10:00 PM</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
</tr>
</tbody>
</table>

If the thermostat is included in Z-Wave network:
It typically follows the settings of your Z-Wave controller. When not in Away mode, it can either follow your Home temperature setpoint based on occupancy states (Home/Away) sent by Z-Wave controller (3) or it can even differentiate between Home and Sleep temperature setpoints according to actual time period (4).

The default program schedule is the Smart schedule, 5-2 (Mon-Fri; Sat-Sun), with different settings for weekdays and weekends. See the table below for the default settings, which have adjustable periods and temperature setpoints.

<table>
<thead>
<tr>
<th>Smart Schedule:</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Period</td>
<td>Start Time</td>
<td>Heat (Mon-Fri)</td>
<td>Cool (Mon-Fri)</td>
<td>Heat (Sat-Sun)</td>
</tr>
<tr>
<td>Away</td>
<td>N/A*</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
</tr>
<tr>
<td>Home</td>
<td>6:00 AM</td>
<td>70 °</td>
<td>78 °</td>
<td>70 °</td>
</tr>
<tr>
<td>Sleep</td>
<td>10:00 PM</td>
<td>62 °</td>
<td>85 °</td>
<td>62 °</td>
</tr>
</tbody>
</table>

To turn the Smart schedule off and to use just Occupancy based schedule (Home/Away temperature setpoints only), go to thermostat MENU/SCHEDULE and turn the Time based schedule Off. See table below with default, adjustable temperature setpoints.

<table>
<thead>
<tr>
<th>Occupancy based schedule:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Period</td>
<td>Start Time</td>
<td>Heat</td>
</tr>
<tr>
<td>Away</td>
<td>N/A*</td>
<td>62 °</td>
</tr>
<tr>
<td>Home</td>
<td>N/A*</td>
<td>72 °</td>
</tr>
</tbody>
</table>

*Triggered by Z-Wave controller

NOTES (for when the thermostat is INCLUDED in Z-Wave network):
• Away mode is an Energy saving setback mode triggered by Z-Wave controller or gateway.
• Away setpoint is adjustable and common for all days, configurable in the thermostat MENU/AWAY SETTING.
• Home setpoint in the Occupancy based schedule is temperature setpoint adjustable on the thermostat Home screen. Common for all days.
• Home and Sleep temperature setpoints in the Smart schedule are configurable in the thermostat MENU/SCHEDULE.
Key features

System status information

Schedule information
Following time and occupancy based temperature control.

Desired temperature
Displays the current desired temperature setting.

Indoor temperature/% indoor relative humidity
Touch to display either current indoor temperature or current % indoor relative humidity.

Mode

Time, ISU #, or Alert #

Z-Wave connection status
Shows actual Z-Wave connection status.

Messaging
Shows device setup options, menu options, reminders, schedule overrides.

Schedule period
Shows schedule period: Away/Home/Sleep.

Fan
Select Fan mode Auto/On/Circulate.

Menu
Touch to display user options.

Note: Long press of Menu button for 5 seconds to access Advanced Menu options.

The screen will wake up by pressing the center area of the displayed temperature. If powered by 24 VAC, the screen stays lit for 45 seconds after you complete changes.

If powered by battery only, the screen stays lit for 8 seconds.

Brightness of an inactive backlight can be adjusted in the thermostat MENU only if the thermostat is powered by 24 VAC.
Installer setup – advanced menu

To access the advanced menu, press and hold the Menu button for 5 seconds. Touch ▼ or ▲ to go through the options in the advanced menu.

Advanced menu options

Device Setup
This is used to access the device ISU setting.

Screen Lock
The thermostat touch screen can be locked fully or partially.

System Test
Test the heating and cooling system.

Reset
Access all reset options on the thermostat. This is the only place to access factory reset.

Range Stop (Temperature)
Set the Minimum Cool and Maximum Heat temperature set points.

Press and hold for 5 seconds.
### Installer setup options (ISU) – advanced menu

**Table 1.**

<table>
<thead>
<tr>
<th># ISU</th>
<th>ISU Name</th>
<th>ISU Options (defaults in bold)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>Schedule Type</td>
<td>No Schedule or Occupancy</td>
<td>You can change default MO-SU, SA-SU schedule here. To edit periods during days, temperatures setpoints, or to turn Schedule On/Off, go to MENU/SCHEDULE (only available if schedule is set).</td>
</tr>
<tr>
<td>125</td>
<td>Temp Scale</td>
<td>Fahrenheit, Celsius</td>
<td>An outdoor temperature is required to set the following ISUs: ISU 355 Balance point (Compressor Lockout) if ISU 356 Aux Heat Lockout Use wired outdoor sensor connected to the “S” terminals on the UWP and set this ISU to Wired (“Wiring heat pump systems” on page 7).</td>
</tr>
<tr>
<td>130</td>
<td>Outdoor Temp</td>
<td>No, Wired</td>
<td>You can change default MO-FR, SA-SU schedule here. To edit periods during days, temperatures setpoints, or to turn Schedule On/Off, go to MENU/SCHEDULE (only available if schedule is set).</td>
</tr>
<tr>
<td>200</td>
<td>System Type</td>
<td>Conventional Forced Air, Heat Pump, Cool Only</td>
<td>This option selects the equipment type your thermostat will control.</td>
</tr>
<tr>
<td>205</td>
<td>Equipment Type</td>
<td>Conventional Forced Air, Heat Pump, Boiler, Air To Air, Geothermal</td>
<td>This option selects the equipment type your thermostat will control. Note: This option is NOT displayed if ISU 200 is set to Cool Only.</td>
</tr>
<tr>
<td>220</td>
<td>Cool Stages</td>
<td>0, 1, 2</td>
<td>This ISU only displayed if ISU 200 is set to Heat Pump. Select whether reversing valve O/B should energize on cool or on heat.</td>
</tr>
<tr>
<td>221</td>
<td>Heat Stages; Aux/E Stages</td>
<td>Heat Stages: 0, 1, 2; Aux/E Stages: 0, 1</td>
<td>Set EH/EUX/E if you want to setup and control of Auxiliary and Emergency heating separately. This ISU is only displayed if ISU 200 is set to Heat Pump and if ISU 221 Aux/E stages = 1.</td>
</tr>
<tr>
<td>230</td>
<td>Fan Control</td>
<td>Equipment, Thermostat</td>
<td>The ISU 230 Fan Control option is only displayed if ISU 200 is set to Electric Forced Air or Fan Coil.</td>
</tr>
<tr>
<td>253</td>
<td>Aux/E Control</td>
<td>Both Aux/E, Either Aux/E</td>
<td>Set EH/EUX/E if you want to setup and control of Auxiliary and Emergency heating separately. This ISU is only displayed if ISU 200 is set to Heat Pump and if ISU 221 Aux/E stages = 1.</td>
</tr>
<tr>
<td>255</td>
<td>Aux Heat Type</td>
<td>Electric, Gas, Oil (or Fossil Forced Air)</td>
<td>The ISU 255 Aux Heat Type option is only displayed if ISU 200 is set to Heat Pump AND if ISU 218 Reversing Valve is set to Heat Pump AND if ISU 221 Heat Stages = 1.</td>
</tr>
<tr>
<td>#</td>
<td>ISU</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>256</td>
<td>EM Heat Type</td>
<td>Electric, Gas/Oil (or Fossil Forced Air)</td>
<td></td>
</tr>
<tr>
<td>260</td>
<td>Fossil Kit Control</td>
<td>On, Off</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>Auto Changeover</td>
<td>0°F to 5°F or 0.0°C to 2.5°C</td>
<td></td>
</tr>
<tr>
<td>303</td>
<td>Auto Differential</td>
<td>Finish</td>
<td></td>
</tr>
<tr>
<td>305</td>
<td>High Cool Stage</td>
<td>Finish</td>
<td></td>
</tr>
<tr>
<td>306</td>
<td>High Heat Stage</td>
<td>Finish</td>
<td></td>
</tr>
<tr>
<td>340</td>
<td>Aux Heat Droop</td>
<td>0°F = Comfort; 2°F to 15°F from setpoint (in 1°F increments)</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>Up Stage Timer Aux Heat</td>
<td>Off, 30, 45, 60, 75, 90 minutes, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16 hours</td>
<td></td>
</tr>
<tr>
<td>355</td>
<td>Balance Point (Compressor Lockout)</td>
<td>Off, 5°F to 60°F (in 5°F increments) or 15°C to 15.5°C (in 5°C increments)</td>
<td></td>
</tr>
</tbody>
</table>

**Table 2. Installer setup options (ISU) – advanced menu**

### Notes

- **EM Heat Type**
  - Electric, Gas/Oil (or Fossil Forced Air)

- **Fossil Kit Control**
  - On, Off

- **Auto Changeover**
  - 0°F to 5°F or 0.0°C to 2.5°C

- **Auto Differential**
  - Finish

- **High Cool Stage**
  - Finish

- **High Heat Stage**
  - Finish

- **Aux Heat Droop**
  - 0°F = Comfort; 2°F to 15°F from setpoint (in 1°F increments)

- **Up Stage Timer Aux Heat**
  - Off, 30, 45, 60, 75, 90 minutes, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16 hours

- **Balance Point (Compressor Lockout)**
  - Off, 5°F to 60°F (in 5°F increments) or 15°C to 15.5°C (in 5°C increments)
<table>
<thead>
<tr>
<th>#</th>
<th>ISU</th>
<th>ISU Name</th>
<th>ISU Options (defaults in bold)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>356</td>
<td>ISU 356</td>
<td>Aux Heat Lock Out (Aux Heat Outdoor Lockout)</td>
<td>Off, 5°F to 65°F (in 5°F increments) or -15.0°C to 18.5°C (in 2.5°C or 3.0°C increments)</td>
<td>Aux Heat Lockout requires an outdoor temperature. Set Aux Heat Lockout to optimize energy bills and to not allow to run the more expensive Aux Heat source above certain outdoor temperature limit. This ISU is only displayed if ISU 200 is set to Heat Pump, AND ISU 260 is set to Thermostat control AND if ISU 221 Aux/E stages = 1.</td>
</tr>
<tr>
<td>365</td>
<td>ISU 365</td>
<td>Cool 1 CPH (Cooling cycle rate stage 1)</td>
<td>1 - 6 CPH (3 CPH)</td>
<td>This ISU is only displayed when Cool/Compressor Stages is set to 1 or more stages. Cycle rate limits the maximum number of times the system can cycle in a 1 hour period measured at a 50% load. For example, when set to 3 CPH, at a 50% load, the most the system will cycle is 3 times per hour (10 minutes on, 10 minutes off). The system cycles less often when load conditions are less than or greater than a 50% load.</td>
</tr>
<tr>
<td>366</td>
<td>ISU 366</td>
<td>Cool 2 CPH (Cooling cycle rate stage 2)</td>
<td>1 - 6 CPH (3 CPH)</td>
<td>This ISU is only displayed when Cool/Compressor Stages is set to 2.</td>
</tr>
<tr>
<td>370</td>
<td>ISU 370</td>
<td>Heat 1 CPH (Heating cycle rate stage 1)</td>
<td>1 - 12 CPH</td>
<td>This ISU is only displayed when Heat Stages is set to 1 stage or more stages. Cycle rate limits the maximum number of times the system can cycle in a 1 hour period measured at a 50% load. For example, when set to 3 CPH, at a 50% load, the most the system will cycle is 3 times per hour (10 minutes on, 10 minutes off). The system cycles less often when load conditions are less than or greater than a 50% load. The recommended (default) cycle rate settings are below for each heating equipment type: Standard Efficiency Gas Forced Air = 5 CPH; High Efficiency Gas Forced Air = 3 CPH; Oil Forced Air = 5 CPH; Electric Forced Air = 9 CPH; Fan Coil = 3 CPH; Hot Water Radiant Heat = 3 CPH; Steam = 1 CPH.</td>
</tr>
<tr>
<td>371</td>
<td>ISU 371</td>
<td>Heat 2 CPH (Heating cycle rate stage 2)</td>
<td>1 - 12 CPH</td>
<td>This ISU is only displayed when Heat Stages is set to 2 stages. The recommended (default) cycle rate settings are below for each heating equipment type: Standard Efficiency Gas Forced Air = 5 CPH; High Efficiency Gas Forced Air = 3 CPH; Oil Forced Air = 5 CPH; Electric Forced Air = 9 CPH; Fan Coil = 3 CPH; Hot Water Radiant Heat = 3 CPH; Steam = 1 CPH.</td>
</tr>
<tr>
<td>375</td>
<td>ISU 375</td>
<td>Aux Heat CPH (Heating cycle rate Auxiliary Heat)</td>
<td>1 - 12 CPH</td>
<td>This ISU is only displayed when ISU 200 = Heat Pump and ISU 221 = 1. It is only displayed when Auxiliary Heat is configured. The recommended cycle rate settings are below for each heating equipment type: Standard Efficiency Gas Forced Air = 5 CPH; High Efficiency Gas Forced Air = 3 CPH; Oil Forced Air = 5 CPH; Electric Forced Air = 9 CPH; Fan Coil = 3 CPH; Hot Water Radiant Heat = 3 CPH; Steam = 1 CPH.</td>
</tr>
<tr>
<td>378</td>
<td>ISU 378</td>
<td>EM Heat CPH (Heating cycle rate Emergency Heat)</td>
<td>1 - 12 CPH</td>
<td>This ISU is only displayed when Emergency Heat is configured and ISU 253: Aux/E Terminal Control is set to control Aux and E heat Independently. The recommended cycle rate settings are below for each heating equipment type: Standard Efficiency Gas Forced Air = 5 CPH; High Efficiency Gas Forced Air = 3 CPH; Oil Forced Air = 5 CPH; Electric Forced Air = 9 CPH.</td>
</tr>
<tr>
<td>387</td>
<td>ISU 387</td>
<td>Compressor Protection</td>
<td>Off, 1 - 5 minutes</td>
<td>The thermostat has a built in compressor protection (minimum off timer) that prevents the compressor from restarting too early after a shutdown. The minimum-off timer is activated after the compressor turns off. If there is a call during the minimum-off timer, the thermostat shows “Cool on” or “Heat On” (heat pump) status blinking on the thermostat home screen. This ISU is displayed if ISU 220 is set to at least 1 stage.</td>
</tr>
<tr>
<td>390</td>
<td>ISU 390</td>
<td>Ext Fan Run Time in Cool</td>
<td>Off, 30, 60, 90 seconds 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 minutes</td>
<td>After the call for cooling ends, the thermostat keeps the fan on for the selected amount of time for increased efficiency. This may reintroduce humidity into the living space. This ISU is displayed if ISU 220 is set to at least 1 stage.</td>
</tr>
<tr>
<td># ISU</td>
<td>ISU Name</td>
<td>ISU Options (defaults in bold)</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>391</td>
<td>Ext Fan Run Time in Heat</td>
<td><strong>Off</strong>, 30, 60, 90 seconds 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 minutes</td>
<td>After the call for heating ends, the thermostat keeps the fan on for the selected amount of time for increased efficiency. This ISU is displayed if ISU 230 is set to Thermostat Controls Fan.</td>
<td></td>
</tr>
<tr>
<td>425</td>
<td>Adaptive Recovery</td>
<td>On, Off</td>
<td>Adaptive Intelligent Recovery (AIR) is a comfort setting. Heating or cooling equipment will turn on earlier, ensuring the indoor temperature will match the setpoint at the scheduled time.</td>
<td></td>
</tr>
<tr>
<td>430</td>
<td>Minimum Cool Setpoint</td>
<td>50 °F to 99 °F (50 °C); 10.0 °C to 37.0 °C (10.0 °C)</td>
<td>The user cannot set the cooling temperature below this level.</td>
<td></td>
</tr>
<tr>
<td>431</td>
<td>Maximum Heat Setpoint</td>
<td>40 °F to 90 °F (90 °C); 4.5 °C to 32.0 °C (32.2 °C)</td>
<td>The user cannot set the heating temperature above this level.</td>
<td></td>
</tr>
<tr>
<td>435</td>
<td>Lock Screen</td>
<td>None, Partial, Full</td>
<td><strong>Unlocked:</strong> User has access to all thermostat settings.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Partially Locked:</strong> User can modify only temperature settings.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Fully Locked:</strong> User cannot modify any settings. Screen will be locked by default factory code and cannot be changed. This code is displayed for a short time, when you are about to lock the thermostat screen. Please note the code in a safe place for future reference.</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>Indoor Sensor</td>
<td>Yes, No</td>
<td>Set this ISU when you want to wire a remote indoor sensor to the &quot;S&quot; terminals on the UWP - see &quot;Wiring conventional systems: forced air and hydronics&quot; on page 6. This ISU is only displayed only if ISU 130 is set to NO wired outdoor sensor configured.</td>
<td></td>
</tr>
<tr>
<td>515</td>
<td>Sensor type</td>
<td>10k, 20k</td>
<td>Choose resistance type of wired indoor sensor. This ISU is only displayed when indoor sensor is configured - ISU 500.</td>
<td></td>
</tr>
<tr>
<td>520</td>
<td>Temperature Control</td>
<td>Thermostat, Wired, Average</td>
<td>This ISU is only displayed when indoor sensor is configured - ISU 500. You can choose what temperature source to be used or you can ask thermostat to use both thermostat and remote sensors for higher accuracy of measurement.</td>
<td></td>
</tr>
<tr>
<td>702</td>
<td>Air Filters</td>
<td>0 - 2</td>
<td>This ISU refers to the number of air filters in the system.</td>
<td></td>
</tr>
<tr>
<td>711</td>
<td>Air Filter 1 Reminder</td>
<td>Off 10, 20, 30, 45, 60, 90, 120, 150 Run Time Days</td>
<td>Choose either calendar or equipment run time-based reminder.</td>
<td></td>
</tr>
<tr>
<td>712</td>
<td>Air Filter 2 Reminder</td>
<td>Off 10, 20, 30, 45, 60, 90, 120, 150 Run Time Days</td>
<td>Choose either calendar or equipment run time-based reminder.</td>
<td></td>
</tr>
<tr>
<td>810</td>
<td>Hum Pad Reminder</td>
<td>Off 6, 12 Calendar Months</td>
<td></td>
<td></td>
</tr>
<tr>
<td># ISU</td>
<td>ISU Name</td>
<td>ISU Options (defaults in bold)</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>921</td>
<td>Dehum Filter</td>
<td><strong>Off</strong> 30, 60 Calendar Days 3 - 12 Calendar Months (in 1 month increments)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1018</td>
<td>Vent Filter Reminder</td>
<td><strong>Off, 3, 6, 9, 12 months</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1100</td>
<td>UV Devices</td>
<td><strong>Off, 0 - 2</strong></td>
<td>Some systems may have two UV devices, one for the A-Coil and another for Air Treatment. A replacement reminder can be setup for each one separately.</td>
<td></td>
</tr>
<tr>
<td>1105</td>
<td>UV Bulb 1 Reminder</td>
<td><strong>Off, 6, 12, 24 months</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1106</td>
<td>UV Bulb 2 Reminder</td>
<td><strong>Off, 6, 12, 24 months</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1401</td>
<td>Idle Brightness</td>
<td><strong>0=Off, 0-5</strong></td>
<td>Adjust brightness of an inactive backlight (idle screen) from default 0 (backlight off) to 5 (maximum brightness). Brightness level higher than 0 will be applied and enabled for user to change in user menu only if thermostat is powered by 24 VAC (C-wire)</td>
<td></td>
</tr>
<tr>
<td>1410</td>
<td>Clock Format</td>
<td><strong>12 hour, 24 hour</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1415</td>
<td>Daylight Saving</td>
<td><strong>On, Off</strong></td>
<td>Set to Off in areas that do not follow Daylight Saving Time.</td>
<td></td>
</tr>
<tr>
<td>1420</td>
<td>Temperature Offset</td>
<td><strong>Off, -3 °F to 3 °F (in 1 °F increments) or -1.5 °C to 1.5 °C (in 0.5 °C increments)</strong></td>
<td>0 °F - No difference in displayed temperature and the actual room temperature. The thermostat can display up to 3 °F (1.5 C) lower or higher than the actual measured temperature.</td>
<td></td>
</tr>
</tbody>
</table>
Z-Wave configuration parameters

If your gateway/hub/controller supports configuration function, you may remotely configure or change the default thermostat configuration parameters. For detailed table with all available Z-Wave configuration parameters go to http://customer.honeywell.com or search for T6 Pro Z-Wave Thermostat in the Z-Wave certified products section on http://Z-Wavealliance.org

Performing a system test

You can test the system setup in ADVANCED MENU under SYSTEM TEST option.

1. Press and hold Menu on the thermostat for 5 seconds to access ADVANCED MENU options.
2. Touch or to go to SYSTEM TEST.
3. Touch Select or touch text area.
4. Touch or to select system test type. Touch Select or touch text area.
5. For the heat test and cool test, use or to activate each stage of the equipment. For the fan test, use or to turn the fan on and off.

NOTE: The clock is used as a timer while the stages are running. The Heat On and Cool On indicators are displayed when the system test is running.

Viewing equipment status

You can see the status of thermostat-controlled equipment in the Menu under the EQMT STATUS option.

1. Touch Menu on your thermostat.
2. Touch or to go to EQMT STATUS. Touch Select or touch text area.
3. Touch or to view statuses of all the equipment the thermostat is controlling. Depending on what feature the thermostat supports or how it was installed, the Equipment Status screen reports data for the following systems:
   • Heating and cooling
   • Fan
## Alerts and Reminders

Alerts and reminders are displayed via the alert symbol and alert number in the clock area on the home screen. You can read more information about active alerts, snooze or dismiss non-critical alerts in Menu/Alerts.

<table>
<thead>
<tr>
<th>Number</th>
<th>Alert/Reminder</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
<td>Thermostat Humidity Sensor Error</td>
<td>The sensor of the thermostat has encountered an error. Please contact dealer to replace the thermostat.</td>
</tr>
<tr>
<td>164</td>
<td>Heat Pump Needs Service</td>
<td>Heat pump needs service. Contact dealer to diagnose and service heat pump.</td>
</tr>
<tr>
<td>170</td>
<td>Internal Memory Error</td>
<td>The memory of the thermostat has encountered an error. Please contact dealer for assistance.</td>
</tr>
<tr>
<td>171</td>
<td>Set the Date and Time</td>
<td>Set the date and time on your thermostat. The date and time are required for certain features to operate, like the program schedule.</td>
</tr>
<tr>
<td>173</td>
<td>Thermostat Temperature Sensor Error</td>
<td>The sensor of the thermostat has encountered an error. Please contact dealer to replace the thermostat.</td>
</tr>
<tr>
<td>177</td>
<td>Indoor Temperature Sensor Error</td>
<td>Wired indoor temperature sensor is not connected or there is a wiring short. Please contact dealer for assistance.</td>
</tr>
<tr>
<td>178</td>
<td>Outdoor Temperature Sensor Error</td>
<td>Wired outdoor temperature sensor is not connected or there is a wiring short. Please contact dealer for assistance.</td>
</tr>
<tr>
<td>181</td>
<td>Replace Air Filter (1)</td>
<td>Replace air filter (1). Reset the timer by touching the &quot;dismiss&quot; button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>182</td>
<td>Replace Air Filter (2)</td>
<td>Replace air filter (2). Reset the timer by touching the &quot;dismiss&quot; button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>184</td>
<td>Replace Humidifier Pad</td>
<td>Replace humidifier pad. Reset the timer by touching the &quot;dismiss&quot; button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>185</td>
<td>Replace Dehumidifier Filter</td>
<td>Replace the dehumidifier filter. Reset the timer by touching &quot;dismiss&quot; button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>186</td>
<td>Clean Ventilator Core</td>
<td>Clean ventilator core. Reset the timer by touching the &quot;dismiss&quot; button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>187</td>
<td>Clean or Replace Ventilator Filter</td>
<td>Clean or replace ventilator filter. Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>188</td>
<td>Replace UV Bulb (1)</td>
<td>Replace UV Bulb (1). Reset the timer by touching the “dismiss” button on thermostat screen after it is replaced.</td>
</tr>
</tbody>
</table>
## Alerts and reminders

<table>
<thead>
<tr>
<th>Number</th>
<th>Alert/Reminder</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>189</td>
<td>Replace UV Bulb (2)</td>
<td>Replace UV Bulb (2). Reset the timer by touching the &quot;dismiss&quot; button on thermostat screen after it is replaced.</td>
</tr>
<tr>
<td>252</td>
<td>AC Power Lost</td>
<td>If batteries used as backup power it would drain batteries quickly so Z-Wave communication needs to be turned off. The working power mode can only be changed when thermostat is NOT included in a Z-Wave network. Either to exclude and include thermostat back in to Z-Wave network to change the power mode to LSS (power-save, sleep mode) or to resume AC power. You can check the actual power mode in the thermostat <strong>MENU/DEVICE INFO</strong>.</td>
</tr>
<tr>
<td>405</td>
<td>Battery Low</td>
<td>Battery low. Please turn the system mode to off and replace the batteries.</td>
</tr>
<tr>
<td>407</td>
<td>Battery Critical</td>
<td>Battery critical. Thermostat cannot control your system. Please replace the batteries immediately.</td>
</tr>
<tr>
<td>546</td>
<td>Z-Wave Not Configured</td>
<td>Z-Wave has a not been configured yet to receive commands from your Z-Wave network. Please follow steps on how to include thermostat in to Z-Wave network.</td>
</tr>
<tr>
<td>547</td>
<td>Z-Wave Radio Error</td>
<td>Z-Wave module is not operating. Thermostat cannot receive commands from your Z-Wave network. Please contact dealer to replace the thermostat.</td>
</tr>
</tbody>
</table>

## Troubleshooting

**Screen is blank**
- Check circuit breaker and reset if necessary.
- Make sure power switch at heating and cooling system is on.
- Make sure furnace door is closed securely.
- If battery powered, make sure the batteries are correctly inserted and are not dead.

**Screen is difficult to read**
- Change screen brightness in thermostat **Menu**. Increase brightness intensity for inactive backlight of the thermostat screen (max. is level 5). Setting is available only if thermostat is AC powered.

**Heating or cooling system does not respond**
- Touch **Mode** to set system to Heat. Make sure the temperature is set higher than the Inside temperature.
- Touch **Mode** to set system to Cool. Make sure the temperature is set lower than the Inside temperature.
- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.

**Heat runs with cooling**
- Verify there is not a wire attached to W for heat pump systems. See wiring on pages 6-7.
Specifications

Model Nr.: TH6320ZW2003
Model Name: T6 Pro Z-Wave Thermostat
Model Description: Programmable Z-Wave thermostat with touchscreen

Stages:
- Up to 3 Heat / 2 Cool Heat Pump
- Up to 2 Heat / 2 Cool Conventional

Power requirements:
- Battery power: AA alkaline battery 3pcs.
- C-wire input: 18-30VAC; 50Hz-60Hz

Electrical Ratings:

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Voltage (50/60Hz)</th>
<th>Running Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Heating</td>
<td>18-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>(Powerpile)</td>
<td>750 mV DC</td>
<td>100 mA DC</td>
</tr>
<tr>
<td>W2 (Aux) Heating</td>
<td>18-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>E Emergency Heat</td>
<td>18-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
<tr>
<td>Y Compressor</td>
<td>18-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>Stage 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Y2 Compressor</td>
<td>18-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>Stage 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G Fan</td>
<td>18-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
<tr>
<td>O/B Changeover</td>
<td>18-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
<tr>
<td>L/A Input</td>
<td>18-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
</tbody>
</table>

Dimension: 4.09” x 4.09” x 1.06”

Display size: 6.55 sq. in.

Temperature ranges:
- Adjustable Heat Temperature Range Setting: 40-90 °F (4.5-32.0 °C)
- Adjustable Cool Temperature Range Setting: 50-99 °F (10.0-37.0 °C)

Operating ambient temperature range: 37-102°F (2.78-38.89 °C)

Temperature Sensor Accuracy:
± 1.5 °F at 70 °F (0.85 °C at 21.0 °C)

Physical Dimensions in inches (mm) (H x W x D):
- T6 PRO Z-Wave Thermostat (TH6320ZW2003): 4-5/64 x 4-5/64 x 1-1/16 (104 x 104 x 27)
- UWP Mounting System (included): 2-9/32 x 2-13/64 x 2-43/64 (58 x 56 x 10)
- Standard Installation Adapter (included): 3-29/32 x 3-57/64 x 21/32 (99 x 99 x 17)
- Decorative Cover Plate – Small (included): 4-49/64 x 4-49/64 x 11/32 (121 x 121 x 9)
- Decorative Cover Plate – Large (THP2400A1068): 6-7/64 x 6-7/64 x 9/32 (155 x 155 x 7)

Z-Wave Radio:
- Frequency (USA and Canada): 908.42 MHz
- Certified: Z-Wave Plus
- Generic Device Type: Thermostat
- Node type (C-wire): Always On Slave (AOS)
- Node type (Battery): Listening Sleeping Slave (LSS)
- Z-Wave Chipset: ZM5202AU

Supported Z-Wave Command Classes:
- Z-Wave Plus Info V2
- Supervision V1
- Transport Service V2
- Association V2
- Version V2
- Association Group Information V2
- Basic V1
- Battery V1
- Clock V1
- Configuration V4
- Device Reset Local V1
- Manufacturer Specific V2
- Sensor Multilevel V5
- Notification V3
- Powerlevel V1
- Security 2 V1
- Thermostat Fan Mode V3
- Thermostat Fan State V1
- Thermostat Mode V3
- Thermostat Operating State V1
- Thermostat Setpoint V2

NOTES:

Thermostat Mode V3:
- Some of the reported modes are manufacturer specific if not covered by the Z-Wave command class.

Basic V1 (basic set command implementation):
- Value Ox00 Device goes to Energy saving setting (AWAY mode)
- Values Ox01-Ox63 and OxFF Device goes to Comfort setting (HOME mode)

Notification V3:
- Notification V3 is enabled by default (Power management alarm handling). Notification Type: Power Management (0x08). Notification Events: AC mains disconnected (0x02), AC mains re-connected (0x03).

Security:
- All supported Z-Wave Command classes are supported securely (S2 unauthenticated), except Transport Service V2, Security 2 V1 and Z-Wave Plus Info V2

Association V2:
- Group ID: 1; Maximum Nodes: 1; Description: Z-Wave Plus Lifeline
- Command Classes reported: Multilevel Sensor, Thermostat Setpoint, Thermostat Mode
- Thermostat Fan Mode, Thermostat Operating State, Thermostat Fan State, Basic
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.

5-year limited warranty
For Warranty information go to http://customer.honeywell.com

Regulatory information

FCC REGULATIONS § 15.19 (a)(3)
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

IC REGULATIONS RSS-GEN
This device complies with Industry Canada’s license-exempt RSSs.

Operation is subject to the following two conditions:
1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Warning (Part 15.21) (USA only)
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

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