T6 Pro Z-Wave
Programmable Thermostat

Professional Install Guide

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 also measures, displays and reports % indoor relative humidity; however, this model does not control humidification equipment.

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 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. If the configuration must be changed, first EXCLUDE the thermostat from the network, change the thermostat configuration, and INCLUDE the thermostat back to the 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.
# 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</td>
<td>Heat Pump fault input (C wire required)</td>
</tr>
<tr>
<td>O/B</td>
<td>Changeover valve</td>
</tr>
<tr>
<td>Y2</td>
<td>Compressor contactor (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>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 or THP9045A1098 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.

---

### 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 conventional systems: forced air and hydronics

### 1H/1C System (1 transformer)

<table>
<thead>
<tr>
<th>R</th>
<th>Power [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
<tr>
<td>W</td>
<td>Heat relay</td>
</tr>
</tbody>
</table>

**Heat-only System**

<table>
<thead>
<tr>
<th>R</th>
<th>Power [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
<tr>
<td>W</td>
<td>Heat relay</td>
</tr>
</tbody>
</table>

**Heat-only System** (Series 20) [5]

<table>
<thead>
<tr>
<th>R</th>
<th>Series 20 valve terminal “R” [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
<tr>
<td>W</td>
<td>Series 20 valve terminal “B”</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>R</th>
<th>Power [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>W</td>
<td>Valve</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
</tbody>
</table>

**Cool-only System**

<table>
<thead>
<tr>
<th>R</th>
<th>Power [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
<tr>
<td>G</td>
<td>Fan relay</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>R</th>
<th>Power [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
<tr>
<td>W</td>
<td>Heat relay (stage 1)</td>
</tr>
<tr>
<td>G</td>
<td>Fan relay</td>
</tr>
<tr>
<td>W2</td>
<td>Heat relay (stage 2)</td>
</tr>
<tr>
<td>Y2</td>
<td>Compressor contactor (stage 2)</td>
</tr>
</tbody>
</table>

### 1H/1C System (2 transformers)

<table>
<thead>
<tr>
<th>R</th>
<th>Power (heating transformer) [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>Power (cooling transformer) [1]</td>
</tr>
<tr>
<td>Y</td>
<td>Compressor contactor</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3, 4]</td>
</tr>
<tr>
<td>W</td>
<td>Heat relay</td>
</tr>
</tbody>
</table>

**Heat-only System with Fan**

<table>
<thead>
<tr>
<th>R</th>
<th>Power [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
<tr>
<td>W</td>
<td>Heat relay</td>
</tr>
</tbody>
</table>

**Cool-only System**

<table>
<thead>
<tr>
<th>R</th>
<th>Power [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc</td>
<td>[R+Rc joined by Slider Tab] [2]</td>
</tr>
<tr>
<td>C</td>
<td>24 VAC common [3]</td>
</tr>
</tbody>
</table>

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

### 2H/2C Heat Pump System [6]

- **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

### 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.

**[1]** Power supply. Provide disconnect means and overload protection as required.
**[2]** Move R-Slider Tab on UWP to the R setting. For more information, see “Setting Slider Tabs” on page 5.
**[3]** Optional 24 VAC common connection.
**[4]** If you do not have separate wires for the Aux and E terminals, connect the wire to the Aux terminal.
**[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.
**[10]** 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 1 or 2 to toggle between Installer Set Up (ISU) options.
- Touch Edit or touch text area, and then touch 1 or 2 to edit default setup option.
- Touch Done or touch text area to confirm the setting or press Cancel.
- Touch 1 or 2 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 15. 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:

• This thermostat will function as a normal programmable thermostat with the default program schedule if not included in a Z-Wave network. Once you include the thermostat in to Z-Wave network, it assumes to be programmed from your Z-Wave controller and the program schedule on the thermostat is turned OFF by default. For more information, see “Scheduling options” on page 12.

• 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 an option to exclude. If the thermostat is excluded from Z-Wave network, it offers an option 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.
Advanced Z-Wave temperature reporting

This thermostat may be configured to report the actual room temperature in a higher resolution than can be shown on the thermostat display. The default temperature reporting resolution is 1 °F or 0.5 °C. When configured to ADVANCED, the temperature reporting resolution will be 0.5 °F or 0.25 °C. To change default temperature reporting to a higher resolution, go to thermostat MENU/Z-WAVE SETUP/TEMP REPORT and set to ADVANCED. The temperature is reported by every displayed value change, and no later than 2 hours from last report.

**NOTE:** When higher temperature resolution reporting set, you may experience different resolution of temperature displayed on the thermostat and 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 14 and 16.

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

This thermostat may be configured to be programmable or non programmable. Thermostat schedule is an optional menu item. It will only show up in the thermostat menu if enabled in the Installer setup – advanced menu. It provides setting for local thermostat schedule control.

Once the thermostat is included in to Z-Wave network, it assumes to be programmed from your Z-Wave controller and the program schedule on the thermostat is turned OFF by default. Use just the controller or associated app to program schedule (automation scenes) for the thermostat.

- Only Home and Away periods appear on the thermostat home screen.
- Home temperature setpoints are adjustable on the thermostat Home screen. Common for all days.
- Away mode is an Energy saving mode adjustable in the thermostat MENU/ AWAY SETTING. Common for all days.

See table below with default, adjustable settings:

<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>18 °</td>
</tr>
</tbody>
</table>

*Triggered by Z-Wave controller

Enabling thermostat schedule when thermostat is included in Z-Wave network (optional):

Z-Wave controllers from various manufacturers may or may not support the Z-Wave Thermostat General V2 Device class used by the Honeywell T6 pro Z-Wave Thermostat. If your controller does not support full thermostat device class functions, it may still be able to control basic Home/ Away (Energy Saving) modes of the thermostat through BASIC_SET commands (ON/OFF) used by the controller for other Z-Wave devices (eg. lighting devices). When only basic commands capable to receive from controller, you can enable the local thermostat schedule to differentiate between temperatures when you are away and when you are at home to differentiate between home and sleep temperatures.

- Home, Away and Sleep periods appear on the thermostat home screen.
- Home and Sleep temperature and time settings are adjustable in the thermostat MENU/SCHEDULE.
- Away mode is an Energy saving mode adjustable in the thermostat MENU/ AWAY SETTING. Common for all days.
See table below with default 5+2 schedule (Mon-Fri; Sat-Sun), adjustable settings:

**Thermostat schedule is turned ON, thermostat included in Z-Wave network**

<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>10 °</td>
<td>18 °</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>

*Triggered by Z-Wave controller

- If the Schedule menu on the thermostat does not appear, make sure that thermostat schedule is enabled. This setting is accessed from **INSTALLER SETUP – ADVANCED MENU** (see pages 14, 15), ISU 120 - Schedule type. Here you can also choose from pre-defined different thermostat program schedule types to be adjustable in the thermostat **MENU/SCHEDULE**.

**Program schedule on the thermostat when not included in Z-Wave network (not operated by Z-Wave controller):**

The Honeywell T6 Pro Z-Wave thermostat will function as fully programmable thermostat when not operated by your controller. Each day can be programmed for different heating and cooling setpoints in 4 unique periods (Wake, Away, Home, Sleep) in the thermostat **MENU/SCHEDULE**. Make sure that thermostat schedule is enabled in **INSTALLER SETUP – ADVANCED** (see pages 14, 15), ISU 120 - Schedule type.

See table below with default 5+2 schedule (Mon-Fri; Sat-Sun), adjustable settings:

**Thermostat schedule is turned ON, thermostat excluded from Z-Wave network**

<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>10 °</td>
<td>18 °</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>10 °</td>
<td>18 °</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>

- Temperature setpoints for all four periods, different per day or group of days are adjustable in thermostat **MENU/ SCHEDULE**.
Key features

System status information
Cool On, Heat On
Auxiliary Heat On,
Recovery, or Auto
Changeover On.

Schedule information
Following time or
occupancy based
temperature control.

Desired temperature
Displays the desired
temperature setting.

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

Mode
Select system mode:
Auto (if enabled)/Heat/
Cool/Off/EM Heat
(Emergency Heat if
installed and configured).

Time, ISU #, or Alert #

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

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

Schedule period
Shows schedule period:
Wake/Away/Home/
Sleep. (varies on whether
included in/excluded
from Z-Wave network
and program scheduled
enabled).

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.

System status
- 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.
## Installer setup options (ISU) – advanced menu

### Table 1.

<table>
<thead>
<tr>
<th>#</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></td>
<td>You can change default M0-FR-SA-SU schedule here. Told to periods during day, 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></td>
<td>An outdoor temperature is required to set the following ISUs: ISU 355 Balance point (Compressor Lockout), ISU 356 Aux Heat Lockout. Use a wired outdoor sensor connected to the &quot;S&quot; terminals on the UWP and set this ISU to Wired. (&quot;Wiring heat pump systems&quot; on page 7).</td>
</tr>
<tr>
<td>130</td>
<td>Outdoor Temp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>System Type</td>
<td></td>
<td>Basic selection of system that thermostat will control.</td>
</tr>
<tr>
<td>205</td>
<td>Equipment Type</td>
<td></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>209</td>
<td>Standard Efficiency Gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>Heat Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>215</td>
<td>Conventional Forced Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220</td>
<td>Heat Stages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>221</td>
<td>Aux/E Stages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>Cool Stages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>Reversing Valve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>235</td>
<td>Fan Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>240</td>
<td>Heat Stage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>245</td>
<td>Fan Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>Aux/E Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>255</td>
<td>Aux Heat Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>260</td>
<td>Aux/E Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>265</td>
<td>Equipment, Thermostat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes:

- ISU Options available may vary upon the thermostat model and equipment setup.
- You can change default M0-FR-SA-SU schedule here. Told to periods during day, temperatures setpoints, or to turn Schedule On/Off go to MENU/SCHEDULE (only available if schedule is set).
- An outdoor temperature is required to set the following ISUs: ISU 355 Balance point (Compressor Lockout), ISU 356 Aux Heat Lockout. Use a wired outdoor sensor connected to the "S" terminals on the UWP and set this ISU to Wired. ("Wiring heat pump systems" on page 7).
<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>256</td>
<td>EM Heat Type</td>
<td>Electric, Gas/Oil (or Fossil Forced Air)</td>
<td>This ISU is displayed only if ISU 200 is set to Heat Pump AND if ISU 221 Aux/E heat stages = 1 AND if ISU 253 is set to run AUX/E heat separately.</td>
</tr>
<tr>
<td>260</td>
<td>Fossil Kit Control</td>
<td>Thermostat, External (Fossil Fuel Kit Controls Backup Heat)</td>
<td>This ISU is displayed only if ISU 200 is set to Heat Pump AND if ISU 221 Aux/E heat stages = 1, AND if ISU 256 is set to Gas/Oil.</td>
</tr>
<tr>
<td>300</td>
<td>Auto Changeover</td>
<td>On, Off</td>
<td>OFF: The user must select heating or cooling as needed to maintain the desired indoor temperature. ON (Automatic): On (enabled) allows user to select Auto Changeover as one of the system modes from the home screen. Auto mode, the thermostat control either heating or cooling automatically to maintain the desired indoor temperature.</td>
</tr>
<tr>
<td>303</td>
<td>Auto Differential</td>
<td>0°F to 5°F or 0.0°C to 2.5°C</td>
<td>Differential is NOT deadband. Honeywell uses an advanced algorithm that fixes deadband at 0°F. The differential setting is the minimum number of degrees from set-point needed to switch from the last mode running (heat or cool) to the opposite mode when the thermostat is in auto-changeover. This is more advanced than previous thermostats.</td>
</tr>
<tr>
<td>305</td>
<td>High Cool Stage Finish</td>
<td>Yes, No</td>
<td>This ISU is only displayed when the thermostat is set to 2 cool stages. When set to YES, this feature keeps the higher stage of the cooling equipment running until the desired setpoint is reached.</td>
</tr>
<tr>
<td>306</td>
<td>High Heat Stage Finish</td>
<td>Yes, No</td>
<td>This ISU is only displayed when the thermostat is set to 2 or more heat stages. When set to YES, this feature keeps the higher stage of the heating equipment running until the desired setpoint is reached.</td>
</tr>
<tr>
<td>340</td>
<td>Aux Heat Droop</td>
<td>0 = Comfort; 2°F to 15°F from setpoint (in 1°F increments) or 1.0°C to 7.5°C from setpoint (in 0.5°C increments)</td>
<td>Aux heat droop can be set on heat pump systems with an auxiliary heat stage. The Comfort setting is NOT available for Dual Fuel systems. Default setting is 0°F (Comfort) for Electric while 2°F for Gas/Oil. The indoor temperature must drop to the selected droop setting before the thermostat will turn Aux Heat on. For example, if Aux Heat is set to 2°F (1.0°C), the indoor temperature must be 2°F (1.0°C) away from the setpoint before Aux Heat turns on. When set to Comfort, the thermostat will use Aux Heat as needed to keep the indoor temperature within 1°F (0.5°C) degree of the setpoint.</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>The Auxiliary Heat Upstage Timer starts when the highest stage of the previous heating equipment type turns on. Auxiliary heat will be used (if needed) when the timer expires. This ISU is only displayed when ISU 340 (Aux Heat Droop) is set to 2°F or higher.</td>
</tr>
<tr>
<td>355</td>
<td>Balance Point (Compressor Lockout)</td>
<td>Off, 5°F to 60°F (in 5°F increments) or 15.0°C to 15.5°C (in 2.5°C or 3.0°C increments)</td>
<td>Compressor Lockout requires an outdoor temperature. Set Compressor Lockout to the temperature below which it is inefficient to run the heat pump. When outside temperature is below this setting, thermostat will lockout the heat pump and run Aux Heat only. This ISU is only displayed if ISU 130 = Wired, ISU 200 is set to Heat Pump, ISU 221 Aux/E stages = 1. Default is 40°F if ISU 205 Heating Equipment is Air to Air Heat Pump and ISU 255 Aux Heat Type is Gas/Oil. Default is 0°F if ISU 205 Heating Equipment is Air to Air Heat Pump and ISU 255 Aux Heat Type is Electric. Default is Off if ISU 205 Heating Equipment is Geothermal. Compressor Lockout is optional for any type of heat pump (Air to Air Heat Pump, Geothermal Heat Pump).</td>
</tr>
<tr>
<td>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 run the more expensive Aux Heat source above certain outdoor temperature limit. This ISU is only displayed if ISU 130 = Wired, ISU 200 is set to Heat Pump, ISU 221 Aux/E stages = 1.</td>
</tr>
<tr>
<td>#</td>
<td>ISU</td>
<td>ISU Name</td>
<td>ISU Options (defaults in bold)</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>365</td>
<td>365</td>
<td>Cool 1 CPH (Cooling cycle rate stage 1)</td>
<td>1 - 6 CPH (3 CPH)</td>
</tr>
<tr>
<td>366</td>
<td>366</td>
<td>Cool 2 CPH (Cooling cycle rate stage 2)</td>
<td>1 - 6 CPH (3 CPH)</td>
</tr>
<tr>
<td>370</td>
<td>370</td>
<td>Heat 1 CPH (Heating cycle rate stage 1)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>371</td>
<td>371</td>
<td>Heat 2 CPH (Heating cycle rate stage 2)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>375</td>
<td>375</td>
<td>Aux Heat CPH (Heating cycle rate Auxiliary Heat)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>378</td>
<td>378</td>
<td>EM Heat CPH (Heating cycle rate Emergency Heat)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>387</td>
<td>387</td>
<td>Compressor Protection</td>
<td>Off, 1 - 5 minutes</td>
</tr>
<tr>
<td>390</td>
<td>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>
</tr>
<tr>
<td>391</td>
<td>391</td>
<td>Ext Fan Run Time in Heat</td>
<td>Off, 30, 60, 90 seconds 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 minutes</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>425</td>
<td>Adaptive Recovery On, Off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>430</td>
<td>Minimum Cool Setpoint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>431</td>
<td>Maximum Heat Setpoint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>435</td>
<td>Lock Screen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>Indoor Sensor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>515</td>
<td>Sensor type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>520</td>
<td>Temperature Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>702</td>
<td>Air Filters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>711</td>
<td>Air Filter 1 Reminder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>712</td>
<td>Air Filter 2 Reminder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>810</td>
<td>Hum Pad Reminder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>921</td>
<td>Dehum Filter Reminder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1018</td>
<td>Vent Filter Reminder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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. The user cannot set the cooling temperature below this level.

**Minimum Cool Setpoint**
- 50°F to 99°F (10.0°C to 37.0°C)
- User cannot set the cooling temperature below this level.

**Maximum Heat Setpoint**
- 40°F to 90°F (4.5°C to 32.0°C)
- User cannot set the heating temperature above this level.

**Lock Screen**
- None, Partial, Full
  - Unlocked: User has access to all thermostat settings.
  - Partially Locked: User can only modify temperature settings.
  - Fully Locked: User cannot modify any settings. Screen will be locked by default for 24 hours. This code is only displayed when equipped with locked settings.

**Indoor Sensor**
- Yes, No
  - Set this ISU when you want to wire a remote indoor sensor to the "S" terminals on the UWP - see "Wiring terminal designations" on page 5. This ISU is only displayed if ISU 130 is set to NO wired outdoor sensor configured.

**Sensor type**
- 10k, 20k
  - Choose resistance type of wired indoor sensor. This ISU is only displayed when indoor sensor is configured - ISU 500.

**Temperature Control**
- Thermostat, Wired, Average
  - This ISU is only displayed when indoor sensor is configured - ISU 500. You can choose what temperature source to be used: you can ask thermostat to use both thermostat and remote sensors for higher accuracy of measurement.

**Air Filters**
- 0 - 2
  - This ISU refers to the number of air filters in the system.

**Air Filter 1 Reminder**
- Off
  - Choose either calendar or equipment run time-based reminder.

**Air Filter 2 Reminder**
- Off
  - Choose either calendar or equipment run time-based reminder.

**Hum Pad Reminder**
- Off
  - Choose either calendar or equipment run time-based reminder.

**Dehum Filter Reminder**
- Off
  - Choose either calendar or equipment run time-based reminder.

**Vent Filter Reminder**
- Off
  - Choose either calendar or equipment run time-based reminder.
<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>1100</td>
<td>UV Devices</td>
<td>0 - 2</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>
</tr>
<tr>
<td>1105</td>
<td>UV Bulb 1 Reminder</td>
<td>Off, 6, 12, 24 months</td>
<td></td>
</tr>
<tr>
<td>1106</td>
<td>UV Bulb 2 Reminder</td>
<td>Off, 6, 12, 24 months</td>
<td></td>
</tr>
<tr>
<td>1401</td>
<td>Idle Brightness</td>
<td>0=Off, 0 - 5</td>
<td>Adjust brightness of an inactive backlight (idle screen) from default 0 (backlight off) to 5 (maximum brightness). Brightness level higher that 0 will be applied and enabled for user to change in user menu only if thermostat is powered by 24 VAC (C-wire)</td>
</tr>
<tr>
<td>1410</td>
<td>Clock Format</td>
<td>12 hour, 24 hour</td>
<td></td>
</tr>
<tr>
<td>1415</td>
<td>Daylight Saving</td>
<td>On, Off</td>
<td>Set to Off in areas that do not follow Daylight Saving Time.</td>
</tr>
<tr>
<td>1420</td>
<td>Temperature Offset</td>
<td>0=Off, -3 °F to 3 °F (in 1 °F increments) or -1.5 °C to 1.5 °C (in 0.5 °C increments)</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>
</tr>
<tr>
<td>1425</td>
<td>Humidity Display Offset</td>
<td>0=Off, -12% to 12% (in 1% increments)</td>
<td>0% - No difference in displayed and actual room % relative humidity. The thermostat can display up to 12% lower or higher than the actual measured % relative humidity.</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 “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>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>
</tbody>
</table>
### Alerts and reminders

<table>
<thead>
<tr>
<th>Number</th>
<th>Alert/Reminder</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<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 Number: 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 Stage 1</td>
<td>18-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>Y2 Compressor Stage 2</td>
<td>18-30 Vac</td>
<td>0.02-1.0 A</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
Thermostat: 37-102°F (2.78-38.89 °C)

Operating Relative Humidity Range
Thermostat: 5% to 90% (non-condensing)

Temperature Sensor Accuracy
Thermostat: ± 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 0x00 Device goes to Energy saving setting (AWAY mode)
• Values 0x01-0x63 and 0xFF 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
This product should not be disposed of with other household waste. If this product is replacing a control that contains mercury in a sealed tube, do not place the old control in the trash. Check for the nearest authorized collection centers or authorized recyclers.

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.

FCC - 47 CFR § 15.105 (b)