Lyric™ T6 Pro Wi-Fi Programmable Thermostat

Professional Install Guide

Package Includes:

• Lyric T6 PRO Wi-Fi 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
• Professional Install Guide
• Getting Started Guide

Compatibility

• Compatible with most heating, cooling, and heat pump systems
• Required: 24 VAC power (“C” wire)
• Does not work with electric baseboard heat (120-240V)
• Does not work with millivolt systems
• Android or iOS smartphone or tablet

Customer assistance

WEB customer.honeywell.com
PHONE 1-800-633-3991
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.
**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.

![Diagram of UWP terminals]

This wiring is just an example, yours may vary.

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**Terminal designations**

<table>
<thead>
<tr>
<th>Conventional Systems</th>
<th>Heat pump systems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Terminal</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>S/S</td>
<td>Input for a wired indoor, outdoor sensor</td>
</tr>
<tr>
<td>Y</td>
<td>Compressor Stage 1</td>
</tr>
<tr>
<td>Y2</td>
<td>Compressor Stage 2</td>
</tr>
<tr>
<td>G</td>
<td>Fan Relay</td>
</tr>
<tr>
<td>C</td>
<td>24VAC Common wire from secondary side of cooling transformer (if 2 transformers)</td>
</tr>
<tr>
<td>K*</td>
<td>Connect to K on Wire Saver Module</td>
</tr>
<tr>
<td>U/U**</td>
<td>Relay for ventilation</td>
</tr>
<tr>
<td>L/A</td>
<td>Connect to compressor monitor</td>
</tr>
<tr>
<td>O/B</td>
<td>Changeover valve for heat pumps</td>
</tr>
<tr>
<td>Aux</td>
<td>Backup Heat</td>
</tr>
<tr>
<td>E</td>
<td>Emergency Heat</td>
</tr>
<tr>
<td>R</td>
<td>24 VAC Heating transformer</td>
</tr>
<tr>
<td>Rc</td>
<td>24 VAC Cooling transformer</td>
</tr>
</tbody>
</table>

* The THP9045A1023 Wire Saver Module is 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.

** Ventilation is not available on all models. When the U slider is in the down position (2 wires), the U contacts are a dry set of contacts. If your ventilation system requires 24 volts, move the U slider to the up position (1 wire). Lower U terminal is internally jumped to the Rc terminal. In this application, you would hook up one wire from your damper to the upper U terminal and the other to the common side of the transformer.
Setting Slider Tabs

Set R Slider Tab, see Figure 9.

- 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 on the old thermostat, 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).

Set U Slider Tab, see Figure 10.

- Use built-in jumper (U Slider Tab) of relay to wire ventilation. Please note that ventilation is not supported on all models.
- When the U Slider Tab is in the down position (2 wires) the U contacts are a dry set of contacts.
- If the ventilator is powered by the cooling transformer, move the jumper switch to the up position (1 wire). With this switch set to 1 wire, the lower U terminal is internally jumped to the Rc terminal. In this application, hook up one wire from the vent damper to the U terminal and the other to the common side of the cooling system transformer.
Wiring

NOTES:
1. Available wiring configurations differ by product models/product numbers.
2. Use 18- to 22-gauge thermostat wire. Shielded cable is not required.
3. Set the R Slider Tab on the UWP to the up position (1 wire) for 1 transformer systems or the down position (2 wires) for 2 transformer systems. See "Setting Slider Tabs" on page 4.
4. Set the U Slider Tab to the up position (1 wire) for non-powered ventilation or the down position (2 wires) for powered ventilation. See "Setting Slider Tabs" on page 4.

Conventional systems

1H/1C System (1 transformer)
R  Power
Rc  [R+Rc joined by Slider Tab]
Y  Compressor contactor
C  24VAC common
W  Heat relay
G  Fan relay

1H/1C System (2 transformers)
R  Power (heating transformer)
Rc  Power (cooling transformer)
Y  Compressor contactor
C  24 VAC common from cooling transformer
W  Heat relay
G  Fan relay

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

Hot Water Relay Panel
R  Power
Rc  [R+Rc joined by Slider Tab]
W  Heat Relay
C  24VAC common

NOTE: If the panel does not provide 24 volts AC at R and C, set the slider to down position and wire a separate transformer to Rc and C.

Heat-only System with Fan
R  Power
Rc  [R+Rc joined by Slider Tab]
C  24VAC common
W  Heat relay
G  Fan relay

Cool-only System with Fan
R  Power
Rc  [R+Rc joined by Slider Tab]
Y  Compressor contactor
C  24VAC common
G  Fan relay
Heat pumps systems

1H/1C Heat Pump System

R  Power
Rc  [R+Rc joined by Slider Tab]
Y  Compressor contactor
C  24VAC common
O/B  Changeover valve
G  Fan relay

2H/1C Heat Pump System

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

3H/2C Heat Pump System

R  Power
Rc  [R+Rc joined by Slider Tab]
Y  Compressor contactor (stage 1)
C  24VAC common
O/B  Changeover valve
G  Fan relay
Aux  Auxiliary heat*
E  Emergency heat relay*
L  Heat pump fault input

NOTE: If dual fuel, TH6320WF2003 model needed.

NOTE: Do NOT use W for heat pump applications. Auxiliary heat must wire to AUX or E.

* If you do not have separate wires for the Aux and E terminals, connect the wire to the Aux terminal.
Ventilation systems

NOTE: Ventilation is not available on all models.

Using U Slider Tab

Wired to ERV/HRV whole house ventilator with internal power supply.

Wired to fresh air damper powered by furnace transformer.

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.
Installer setup – using the thermostat

Setup using the thermostat

- After the Lyric thermostat has powered up, touch **START SETUP** on the thermostat. You’ll be asked if you want to perform setup via Lyric app. Touch **No**.

- Touch or to toggle between Installer Set Up (ISU) options.

- Touch **Edit** or touch text area, and then touch or to edit default setup option.

- Touch **Done** or touch text area to confirm the setting or press **Cancel**.

- Touch or to continue to setup another ISU option.

NOTES:

- To see a list of all setup parameters, go to “Installer setup options (ISU) – advanced menu” on page 11. The thermostat displays the ISU name and the ISU number.

- To finish setup and save your settings, scroll to the **Finish** screen at the end of the ISU list.

- Touch **Select** or touch text area to save changes and exit, or touch or to return to initial setup screen.
Installer setup – using the Lyric app

Setup using the Lyric app

Download the Lyric app from App Store or Google Play to use a hidden PRO installation feature that will allow you to configure the thermostat and personally invite your customer to connect to the installed thermostat at the same time.

Enter Contractor Mode

To enter Contractor Mode, press and hold the Lyric logo for 5 seconds. Then tap Confirm to begin using Contractor Mode. Follow steps to personally invite your customer to connect their Lyric App.

Installer setup – advanced menu

To access the advanced menu, press and hold the Menu button for 5 seconds. Touch ① or ② 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 set to lock fully or partially.

Rater View
A read only place to view all the ventilation settings.

System Test
Test the heating and cooling system.

Range Stop (Temperature)
Set the minimum, maximum, cool and heat temperature set points.

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

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

Schedule information
- Following time-based or location-based temperature control.

Desired Temperature
- Displays the current desired temperature setting.

Indoor Temperature
- Displays the current indoor temperature.

Mode

Time, ISU #, or Alert #

Connection status information
- Status of Wi-Fi Connection: Connected, Disconnected, or Wi-Fi is Off.

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

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

Fan
- Select Fan mode Auto/On/Circulate.

Menu
- Touch to display options. Start here to set a program schedule.

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. The screen will stay lit for 45 seconds. Brightness can be adjusted in the Menu.
## Installer setup options (ISU) – advanced menu

<table>
<thead>
<tr>
<th># ISU</th>
<th>ISU Name</th>
<th>ISU Options (defaults in bold)</th>
<th>Notes</th>
</tr>
</thead>
</table>
| 120   | Schedule Type  | No Schedule  
 MO-SU = Every day the same  
 MO-FR, SA, SU = 5-1-1 schedule  
 MO-FR, SA-SU = 5-2 schedule  
 Each Day = Every day individual | You can change default MO-FR, SA-SU schedule here. To edit periods during days, temperature setpoints, or to turn Schedule On/Off, from the home screen, go to MENU/SCHEDULE. |
| 125   | Temp Scale     | Fahrenheit, Celsius                                                                         |                                                                      |
| 130   | Outdoor Temp    | No, Wired, Internet                                                                         | Select outdoor temperature data source. This ISU automatically defaults to Internet when registered to Lyric app and no wired outdoor sensor is selected. We recommend using a wired outdoor sensor connected to the “S” terminals on the UWP. (See “Wiring” on page 5.) An outdoor temperature is required to set the following ISUs: ISU 355 Compressor Lockout, ISU 356 Aux Heat Lockout, ISU 1013 Low Outdoor Temperature Ventilation Lockout, ISU 1014 High Outdoor Temperature Ventilation Lockout, and ISU 1015 High Outdoor Dew Point Ventilation Lockout. |
| 200   | System Type     | Conventional Forced Air  
 Heat Pump  
 Boiler  
 Cool Only | Basic selection of system your thermostat will control.                                      |
| 205   | Equipment Type  | Conventional Forced Air Heat  
 Standard Gas (STD GAS), High Efficiency Gas (EFF GAS), Oil, Electric, Fan Coil*  
 Heat Pump: Air To Air, Geothermal  
 Boiler: Hot Water, Steam | This option selects the equipment type your thermostat will control. Note: This option is NOT displayed if ISU 200 is set to Cool Only. * Fan coil setting is for a residential application with a hot water coil in an air-handler. |
| 218   | Reversing Valve | O/B on Cool, O/B on Heat                                                                     | This ISU is only displayed if ISU 200 is set to Heat Pump. Select whether reversing valve O/B should energize on cool or on heat |
| 220   | Cool Stages     | #200=Conv./ 200=HP  
 0, 1, 2 |                                                                      |
| 221   | Heat Stages/Aux/E Stages | Heat Stages: 0, 1, 2  
 AUX/E Stages: 0, 1 | Maximum of 2 Heat Stages for conventional systems. Maximum of 1 Aux/E stages for heat pump systems. |
| 230   | Fan Control     | Equipment, Thermostat                                                                      | This ISU is only displayed if ISU 205 is set to Electric Forced Air or Fan Coil. |
| 253   | Aux/E Control   | Both Aux/E, Either Aux/E  
 Set “EITHER AUX/E” if you want to setup and control 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. |                                                                      |
| 255   | Aux Heat Type   | Electric, Gas/Oil (or Fossil Forced Air)  
 This ISU is only displayed if ISU 200 is set to Heat pump AND if ISU 221 Aux/E heat stages = 1.  
 Note: Options of this ISU may vary depending on the model of the thermostat. | |
### Installer setup options (ISU) – advanced menu

<table>
<thead>
<tr>
<th>ISU Name</th>
<th>ISU Options defaults in bold</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note</strong></td>
<td>Notes</td>
</tr>
<tr>
<td># ISU</td>
<td>ISU Options (ISU) – advanced menu</td>
</tr>
<tr>
<td>256</td>
<td>EM Heat Type</td>
</tr>
<tr>
<td>260</td>
<td>Fossil Kit Control</td>
</tr>
<tr>
<td>261</td>
<td>Auto Changeover</td>
</tr>
<tr>
<td>300</td>
<td>Auto Differential</td>
</tr>
<tr>
<td>303</td>
<td>High Cool Stage Finish</td>
</tr>
<tr>
<td>305</td>
<td>High Heat Stage Finish</td>
</tr>
<tr>
<td>340</td>
<td>Aux Heat Droop</td>
</tr>
<tr>
<td>350</td>
<td>Up Stage Timer Aux Heat</td>
</tr>
<tr>
<td>355</td>
<td>Balance Point (Compressor Lockout)</td>
</tr>
</tbody>
</table>

**Notes**
- This ISU is displayed only if ISU 200 is set to Heat Pump AND if ISU 221 Aux/E heat stages = 1, if ISU 253 is set to run AUTO/AUX heat separately.
- This ISU may not be available on all models.
- 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 not set to Gas/Oil.
- This ISU may not be available on all models.

**ISU Name**
- EM Heat Type
- Electric, Gas/Oil (or Fossil Forced Air)
- Thermostat, External (Fossil Fuel Kit Controls Backup Heat)
- On, Off
- 0 °F to 5 °F or 0.0 °C to 2.5 °C
- Yes, No
- 2, 3, 4, 5, 6, 8, 10, 12, 14, 16 hours

**ISU Options**
- EM Heat Type
- Electric, Gas/Oil (or Fossil Forced Air)
- Thermostat, External (Fossil Fuel Kit Controls Backup Heat)
- On, Off
- 0 °F to 5 °F or 0.0 °C to 2.5 °C
- Yes, No
- 2, 3, 4, 5, 6, 8, 10, 12, 14, 16 hours
## Installer setup options (ISU) – advanced menu

<table>
<thead>
<tr>
<th>#</th>
<th>ISU Name</th>
<th>ISU Options (defaults in bold)</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<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>Cool 2 CPH (Cooling cycle rate stage 2)</td>
<td>1 - 6 CPH (3 CPH)</td>
</tr>
<tr>
<td>370</td>
<td>Heat 1 CPH (Heating cycle rate stage 1)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>371</td>
<td>Heat 2 CPH (Heating cycle rate stage 2)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>375</td>
<td>Aux Heat CPH</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>378</td>
<td>EM Heat CPH (Emergency Heat)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>387</td>
<td>Compressor Protection</td>
<td>Off, 1.5 minutes</td>
</tr>
<tr>
<td>390</td>
<td>Ext Fan Run Time in Cool</td>
<td>Off, 30, 60, 90 seconds</td>
</tr>
</tbody>
</table>

### Notes
- Aux Heat Lock Out requires an outdoor temperature set Aux Heat Outdoor Lockout above a certain outdoor temperature limit. This ISU is only displayed when ISU 200 is set to Heat Pump and ISU 260 is set to the most control and ISU 221 Aux/E is set to at least 1 stage.
- Cool 1 and Cool 2 CPH are only displayed when Cool / Compressor Stages is set to 1 or more stages.
- Heat 1 and Heat 2 CPH are only displayed when Heat Stages is set to 1 or more stages.
- Aux Heat CPH is only displayed when ISU 200 = Heat Pump and ISU 221 = 1.
- EM Heat CPH is only displayed when Emergency Heat is configured and ISU 253: Aux/E Terminal Control is set to control Aux and EM Heat independently.
- Compressor Protection is off by default and can be set to 1.5 minutes.
- Ext Fan Run Time in Cool can be set to 30, 60, or 90 seconds.

### Table 3

<table>
<thead>
<tr>
<th>#</th>
<th>ISU Name</th>
<th>ISU Options (defaults in bold)</th>
</tr>
</thead>
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</tr>
<tr>
<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>Heat 1 CPH (Heating cycle rate stage 1)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>371</td>
<td>Heat 2 CPH (Heating cycle rate stage 2)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>375</td>
<td>Aux Heat CPH (Heating cycle rate Auxiliary Heat)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>378</td>
<td>EM Heat CPH (Emergency Heat)</td>
<td>1 - 12 CPH</td>
</tr>
<tr>
<td>387</td>
<td>Compressor Protection</td>
<td>Off, 1.5 minutes</td>
</tr>
<tr>
<td>390</td>
<td>Ext Fan Run Time in Cool</td>
<td>Off, 30, 60, 90 seconds</td>
</tr>
</tbody>
</table>

### Table 3 Notes
- This ISU is only displayed when ISU 200 is set to Heat Pump and ISU 260 is set to the most control and ISU 221 Aux/E is set to at least 1 stage.
- Cool 1 and Cool 2 CPH are only displayed when Cool / Compressor Stages is set to 1 or more stages.
- Heat 1 and Heat 2 CPH are only displayed when Heat Stages is set to 1 or more stages.
- Aux Heat CPH is only displayed when ISU 200 = Heat Pump and ISU 221 = 1.
- EM Heat CPH is only displayed when Emergency Heat is configured and ISU 253: Aux/E Terminal Control is set to control Aux and EM Heat independently.
- Compressor Protection is off by default and can be set to 1.5 minutes.
- Ext Fan Run Time in Cool can be set to 30, 60, or 90 seconds.

### Table 3 Examples
- Standard Efficiency Gas Forced Air = 5 CPH; Electric Forced Air = 9 CPH; Fan Coil = 1 CPH; Heat Pump = 5 CPH; High Efficiency Gas Forced Air = 3 CPH; Water Radiant Heat = 3 CPH; Steam = 1 CPH.
<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>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>
<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>
</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>
</tr>
<tr>
<td>429</td>
<td>Max Cool Temperature</td>
<td>from Min. Cool Temp. to 99 °F or to 37.0 °C (90 °F or 32 °C)</td>
<td>The user cannot set the cooling temperature above this level.</td>
</tr>
<tr>
<td>430</td>
<td>Min Cool Temperature</td>
<td>from 50 °F or 10.0 °C to Max. Cool Temp. (50 °F or 10 °C)</td>
<td>The user cannot set the cooling temperature below this level.</td>
</tr>
<tr>
<td>431</td>
<td>Max Heat Temperature</td>
<td>from Min. Heat Temp. to 90 °F or to 32.0 °C (90 °F or 32 °C)</td>
<td>The user cannot set the heating temperature above this level.</td>
</tr>
<tr>
<td>432</td>
<td>Min Heat Temperature</td>
<td>from 40 °F or 4.4 °C to Max. Heat Temp. (50 °F or 10 °C)</td>
<td>The user cannot set the heating temperature below this level.</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 “S” terminals on the UWP - see “Wiring” on page 5. This ISU is only displayed only if ISU 130 is set to NO wired outdoor sensor configured.</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>
</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>
</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>
</tr>
<tr>
<td>711</td>
<td>Air Filter 1 Reminder</td>
<td>Off, 10, 20, 30, 45, 60, 90, 120, 150 Run Time Days 30, 45, 60, 75 Days 3, 4, 5, 6, 9, 12, 15 Months</td>
<td>Choose either calendar or equipment run time-based reminder.</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 30, 45, 60, 75 Days 3, 4, 5, 6, 9, 12, 15 Months</td>
<td>Choose either calendar or equipment run time-based reminder.</td>
</tr>
<tr>
<td>810</td>
<td>Hum Pad Reminder</td>
<td>Off, 6, 12 Calendar Months</td>
<td></td>
</tr>
<tr>
<td>921</td>
<td>Dehum Filter Reminder</td>
<td>Off, 30, 60 Calendar Days 3 - 12 Calendar Months (in 1 month increments)</td>
<td></td>
</tr>
<tr>
<td>Table 5. Installer setup options (ISU) – advanced menu</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>#</td>
<td>ISU Name</td>
<td>ISU Options (defaults in bold)</td>
<td>Notes</td>
</tr>
<tr>
<td>1000</td>
<td>Vent Type</td>
<td>None, ERV/HR, Passive, Fresh Air Damper</td>
<td>The thermostat does not control ventilation.</td>
</tr>
<tr>
<td>1005</td>
<td>Vent Method</td>
<td>ASHRAE 2010, ASHRAE 2013</td>
<td>The thermostat turns on the blower fan when ventilation is needed.</td>
</tr>
<tr>
<td>1006</td>
<td>Vent Fan Control</td>
<td>Thermostat, Equipment</td>
<td>The thermostat turns on the ventilation and the fan when ventilation is needed.</td>
</tr>
<tr>
<td>1007</td>
<td>Bedrooms</td>
<td>1 - 6 (2)</td>
<td></td>
</tr>
<tr>
<td>1008</td>
<td>Home Size</td>
<td>1000 - 5000 Sq. Ft. (1000 Sq. Ft.)</td>
<td>This ISU is only displayed when ISU 1005 Ventilation Method is set to ASHRAE 2010 or 2013.</td>
</tr>
<tr>
<td>1009</td>
<td>Vent Rate</td>
<td>100 - 5000 CFM (in 5 CFM increments) (100 CFM)</td>
<td>This ISU is only displayed when ISU 1005 Ventilation Method is set to ASHRAE 2010 or 2013.</td>
</tr>
<tr>
<td>1010</td>
<td>Vent Percent On Time</td>
<td>10% - 100% (30%)</td>
<td>The thermostat operates ventilation equipment based on a percentage entered in the installer setup (ISU 1012). For example, if Percent on Time is set to 50%, the ventilation equipment will run at random times during a 1 hour period until it reaches 50% run time (approximately 30 minutes). This ISU is only displayed if ISU 1012 is set to Percentage Time.</td>
</tr>
<tr>
<td>1011</td>
<td>Vent Priority</td>
<td>Lockouts, ASHRAE</td>
<td>The thermostat places a priority on lockouts versus the ASHRAE ventilation standard. The thermostat will not run ventilation during the following lockout conditions (if configured), unless you manually call for ventilation: Lockout Ventilation during Outdoor Conditions (ISU 1013, 1014, and 1015). ASHRAE is Priority: ASHRAE requires additional ventilation following a long off cycle. The thermostat meets the ASHRAE ventilation standard by running additional ventilation when outdoor conditions are favorable. If ASHRAE cannot be met when outdoor conditions are favorable, the thermostat will override the outdoor lockout ventilation and run at the ASHRAE ventilation standard in a shorter run time. The ability to lockout ventilation during the “Sleep” is not an option when you select ASHRAE is Priority.</td>
</tr>
<tr>
<td>1012</td>
<td>Vent Priority</td>
<td>Lockouts, ASHRAE</td>
<td>ISU 130 must be set to Wired or Internet. This ISU is only displayed when ISU 1000 Ventilation Type is set to ERV/HR or Fresh Air Damper.</td>
</tr>
<tr>
<td>1013</td>
<td>Low Outdoor Temp</td>
<td>Vent Lockout</td>
<td>Off, -20 °F to -40 °F (in 5 °F increments) or -28.0 °C to -4.0 °C (in 2.0 °C increments)</td>
</tr>
<tr>
<td>1014</td>
<td>High Outdoor Temp</td>
<td>Vent Lockout</td>
<td>Off, 80 °F to 110 °F (in 5 °F increments) or 26 °C to 44 °C (in 2 °C increments)</td>
</tr>
<tr>
<td>1015</td>
<td>High Outdoor Dewpoint</td>
<td>Vent Lockout</td>
<td>Off, 65 °F to 85 °F (in 5 °F increments) or 18 °C to 30 °C (in 2 °C increments)</td>
</tr>
<tr>
<td># ISU</td>
<td>ISU Name</td>
<td>ISU Options (defaults in bold)</td>
<td>Notes</td>
</tr>
<tr>
<td>-------</td>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1017</td>
<td>Vent Core Reminder</td>
<td>Off, 3, 6, 9, 12 months</td>
<td>This ISU is displayed only if ISU 1000 is set to ERV/HRV.</td>
</tr>
<tr>
<td>1018</td>
<td>Vent Filter Reminder</td>
<td>Off, 3, 6, 9, 12 months</td>
<td></td>
</tr>
<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 (idlescreen) from default 0 (backlight off) to 5 (maximum brightness).</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>Temp Offset</td>
<td>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>
</tbody>
</table>

Table 6.
Performing a system test

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

1. Press and hold **Menu** on the Lyric 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
   - Ventilation (available on certain models only)
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.

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).

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 5-6.

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>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>168</td>
<td>Wi-Fi Radio Error</td>
<td>Wireless module is not operating. Wireless features are not available. Please contact dealer to replace the thermostat.</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>175</td>
<td>AC Power Resumed</td>
<td>AC power resumed to thermostat after power loss.</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>Number</td>
<td>Alert/Reminder</td>
<td>Definition</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------</td>
<td>---------------------------------------------------------------------------</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>183</td>
<td>Clean Humidifier Tank and Replace Water Filter</td>
<td>Clean humidifier tank and replace the water filter, or contact dealer to do this for you. Reset the timer by touching the “dismiss” button on the 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>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>210</td>
<td>Register Online For Outdoor Temperature</td>
<td>Online registration is required to receive outdoor temperature from the Internet. Outdoor temperature is needed for your current system setup. Download the Lyric app to register your thermostat.</td>
</tr>
<tr>
<td>388</td>
<td>Register Online for Remote Access and Outdoor Temperature</td>
<td>Online registration is required for remote access and outdoor temperature. Download the Lyric app to register your thermostat.</td>
</tr>
<tr>
<td>399</td>
<td>No Internet</td>
<td>The connection to the Internet has been lost. Please check your network settings.</td>
</tr>
<tr>
<td>400</td>
<td>No Wi-Fi Signal</td>
<td>The Wi-Fi signal has been lost. Please wait for the thermostat to reconnect or select a new Wi-Fi network. Follow steps in the Lyric app</td>
</tr>
<tr>
<td>508</td>
<td>Wi-Fi Not Configured</td>
<td>Please download the Lyric app and follow the steps to connect thermostat to your Wi-Fi network.</td>
</tr>
</tbody>
</table>
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.

Specifications

Temperature Ranges
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)

Operating Ambient Temperature
37 °F to 102 °F (2.8 °C to 38.9 °C)

Shipping Temperature
-20 °F to 120 °F (-28.9 °C to 48.9 °C)

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

Physical Dimensions in inches (mm) (H x W x D)
Lyric T6 PRO Wi-Fi Thermostat (TH6320WF2003): 4-5/64 x 4-5/64 x 1-1/16 (104 x 104 x 27)
Lyric T6 PRO Wi-Fi Thermostat (TH6220WF2006): 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 (THP2400A1076): 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)

Electrical Ratings

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Voltage (50/60Hz)</th>
<th>Running Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>20-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>(Powerpole)</td>
<td>750 mV DC</td>
<td>100 mA DC</td>
</tr>
<tr>
<td>W2 (Aux) Heating</td>
<td>20-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>E</td>
<td>20-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
<tr>
<td>Y</td>
<td>20-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>Y2 Compressor Stage 2</td>
<td>20-30 Vac</td>
<td>0.02-1.0 A</td>
</tr>
<tr>
<td>G</td>
<td>20-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
<tr>
<td>O/B</td>
<td>20-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
<tr>
<td>L/A Input</td>
<td>20-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
<tr>
<td>U</td>
<td>20-30 Vac</td>
<td>0.02-0.5 A</td>
</tr>
</tbody>
</table>

Power Consumption
Backlight On: 1.48VA
Backlight Off: 0.88VA

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

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, including interference that may cause undesired operation.

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

Home and Building Technologies
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