



Honeywell Home RTH Series T5 Smart Thermostat Installation Guide

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Honeywell

RTH Series T5 Smart Thermostat



T5 Smart Thermostat – Product Information

The T5 Smart Thermostat is a programmable thermostat that can be easily installed using the Quick Install Guide provided in the package. It comes with Smart Alerts that remind you of filter changes and warn you of extreme indoor temperatures. The Smart Response feature learns your heating and cooling system to deliver the optimal temperature at the right time. The Auto Change From Heat to Cool feature automatically determines if your home needs heating or cooling to provide maximum comfort. The thermostat is compatible with various models such as RCHT8610WF2006, RCHT8610WF2014, RCHT8610WF3005, RCHT8612WF2005, RCHT8612WF2015, RCHT8612WF3006, and RTH8800WF2022.

T5 Smart Thermostat – Product Usage Instructions

Before installing the thermostat, make sure to read the instructions provided in the Quick Install Guide. You will need a Phillips screwdriver, a small flat head screwdriver, a pencil, a smartphone to install your thermostat and photograph existing wiring, and a level. You may also need a wire stripper, needle-nose pliers, a drill and drill bit (7/32 in (5.6 mm)), your home Wi-Fi password, and the Resideo app to configure your system and connect to your smartphone.

CAUTION: To avoid electrical shock or equipment damage, disconnect power before beginning installation. Compressor protection is bypassed during testing. To prevent equipment damage, avoid cycling the compressor quickly.

COMPATIBILITY: Make sure to check the compatibility of your heating/cooling system before installing the thermostat. If you are unsure, visit honeywellhome.com or contact customer support at 1-800-633-3991 or via social media (**Twitter:** @Honeywell_Home, **Facebook:** Honeywell Home).

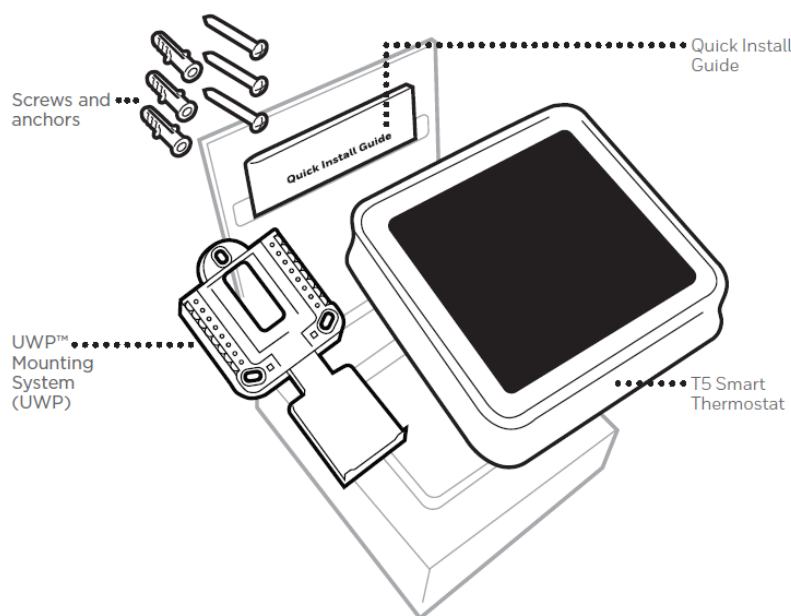
Removing your old thermostat

1. **Turn power OFF:** Turn off the power at the breaker box or switch that controls your heating/cooling system.
2. **Check that your system is off:** Change the temperature on your old thermostat. If you don't hear the system turn on within 5 minutes, the power is off. Note: If you have a digital thermostat that has a blank display, skip this step.
3. **Remove your old thermostat from the wall plate:** On most thermostats, you can take off the thermostat by

grasping and gently pulling. Some thermostats may have screws, buttons, or clasps. Do not remove any wires from your thermostat at this time!

4. **Make sure there are no 120/240V wires:** Do you have thick black wires with wire nuts? Is your thermostat 120V or higher? If you answered yes to either of these questions, you have a line voltage system and the thermostat will not work.
5. **Take a picture of how your wiring looks right now:** Be sure to include the letters next to the terminals where the wires are inserted. This will be a helpful reference when wiring your thermostat.

Included in your box:



Get the most from T5 Smart Thermostat

Multiple programming options that fit your lifestyle:

1. Location-Based scheduling – The thermostat uses your smartphone's location to know when you're away, and saves you energy. Through geofence technology, it senses your return and helps make you comfortable upon arrival. You can always manually change your preset Home and Away temperature either on the thermostat or on the Resideo app.
 2. Smart scheduling – Use a combination of geofencing and time scheduling to fit your busy, active lifestyle.
 3. Time-Based scheduling – Program your thermostat for one week; each day (each day is a different schedule); Mon-Fri, Sat, Sun; or Mon-Fri, Sat-Sun. All days with four adjustable periods per day.
 4. No scheduling – Control your comfort manually by adjusting temperature set points only.
- **Smart Alerts.** Push notifications remind you of filter changes and warn you of extreme indoor temperatures.
 - **Smart Response.** Learns your heating and cooling system to deliver the optimal temperature at the right time.
 - **Auto Change From Heat to Cool.** Automatically determine if your home needs heating or cooling to provide maximum comfort.

Tools you will need:



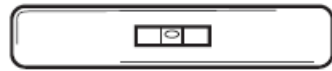
Phillips screwdriver



Small flat head screwdriver



Pencil



Level



Smartphone
To install your thermostat and photograph existing wiring.

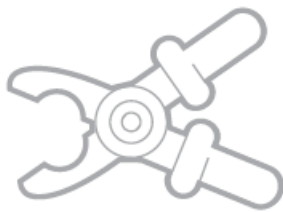


Home Wi-Fi Password



Resideo app
To configure your system and connect to your smartphone.

You may need:



Wire stripper



Needle-nose pliers



Drill and
drill bit (7/32 in (5.6 mm))

- **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.

- **REQUIRED: 24 VAC POWER ("C" WIRE)**

- **CAUTION: ELECTRONIC WASTE NOTICE**

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

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
- Does not support input (S terminals) for indoor and outdoor sensors
- Does not support relay (U terminals) for ventilation
- Android or iOS smartphone, tablet, or device

For help, contact:

WEB: honeywellhome.com

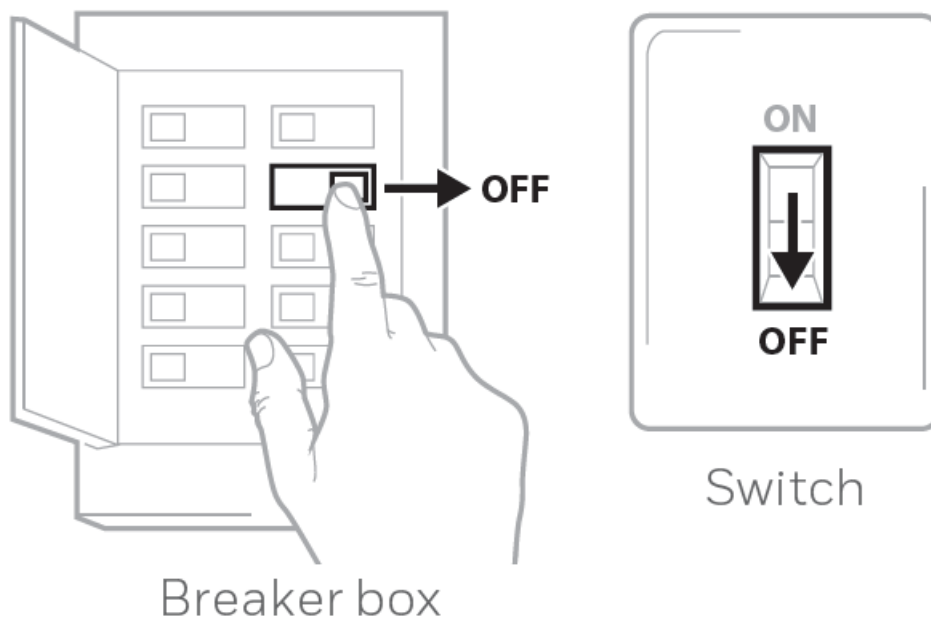
PHONE: 1-800-633-3991

SOCIA: **Twitter:** @Honeywell_Home, **Facebook:** Honeywell Home

Removing your old thermostat

1. Turn power OFF

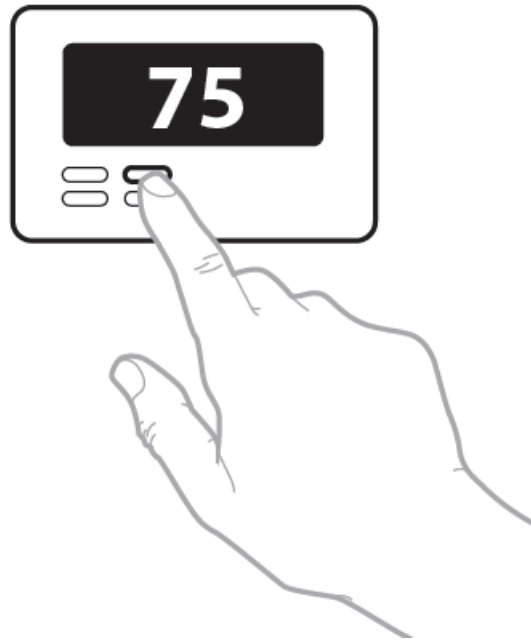
To protect yourself and your equipment, Turn off the power at the breaker box or switch that controls your heating/cooling system.



2. Check that your system is off

Change the temperature on your old thermostat. If you don't hear the system turn on within 5 minutes, the power is off.

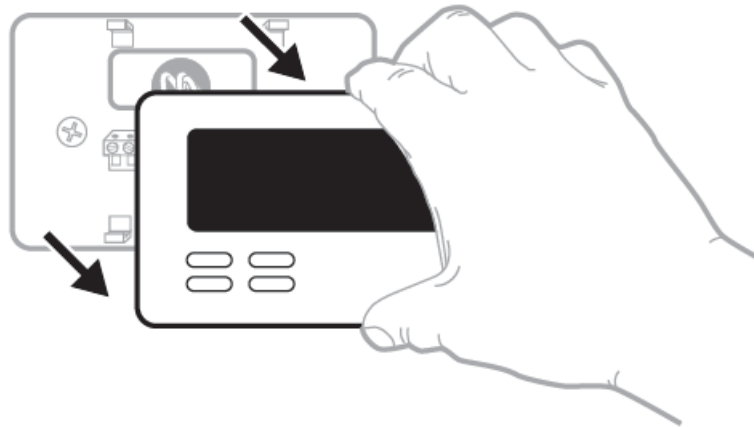
Note: If you have a digital thermostat that has a blank display, skip this step.



3. Remove your old thermostat from the wall plate

On most thermostats, you can take off the thermostat by grasping and gently pulling. Some thermostats may have screws, buttons, or clasps.

Do not remove any wires from your thermostat at this time!



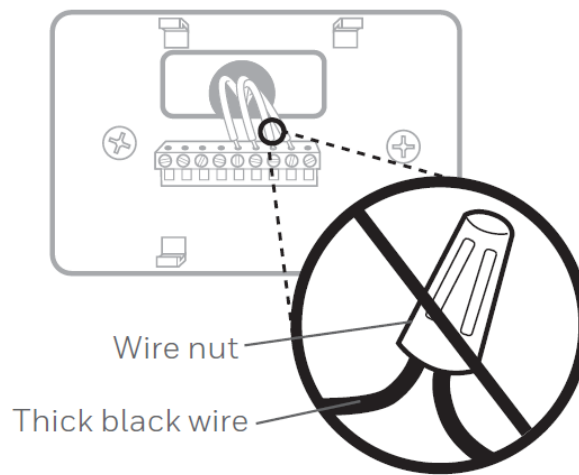
4. Make sure there are no 120/240V wires

Do you have thick black wires with wire nuts?

Is your thermostat 120V or higher?

If you answered yes to either of these questions, you have a line voltage system and the thermostat will not work.

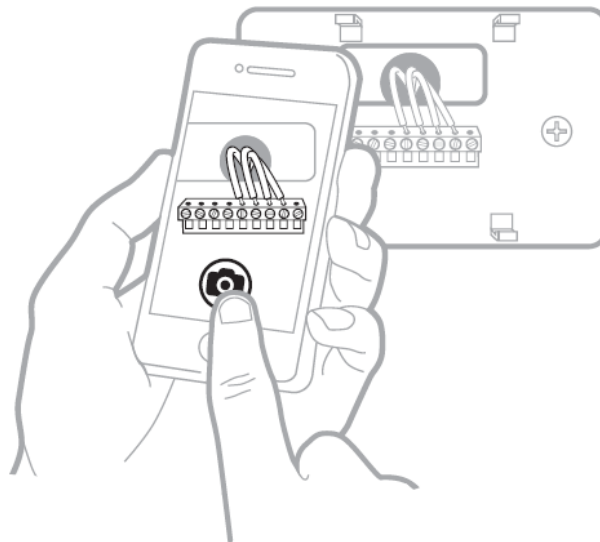
If you are unsure visit: honeywellhome.com



5. Take a picture of how your wiring looks right now

Be sure to include the letters next to the terminals where the wires are inserted. This will be a helpful reference when wiring your thermostat.

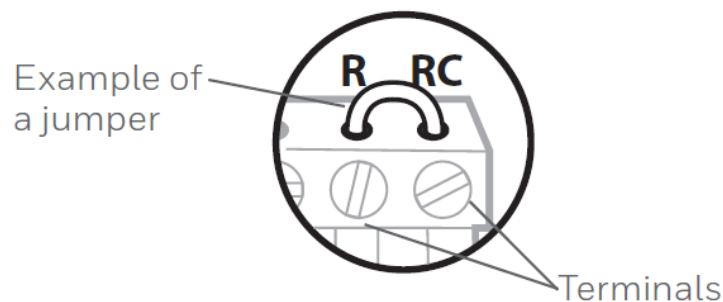
Tip: If the color of your wires has faded or if 2 terminals have the same wire color, use the wire labels provided in the package to label each wire.



6. Remove any jumpers

A jumper connects one terminal to another terminal. It may look like a small staple or even a colored wire and must be removed before continuing. Use a screwdriver to release wires from terminals.

The thermostat does not need jumpers.



7. Record if you have wires in the following terminals Do not include jumpers as a part of your count. The thermostat does not need jumpers.

Terminal Wire Color

R _____

RH_____

Rc_____

8. Write down the color of the wires

Check mark the wires that are connected to terminals. Next to the check mark, write down the color of the wire.

Do not include jumpers as a part of your count.

Check all that apply (Not all will apply):

Terminal Wire Color

Y_____

Y2_____

G_____

C Required

A or L/A_____

O/B_____

W2 or AUX_____

E_____

W_____

K_____

S and U terminals are not supported with this thermostat.

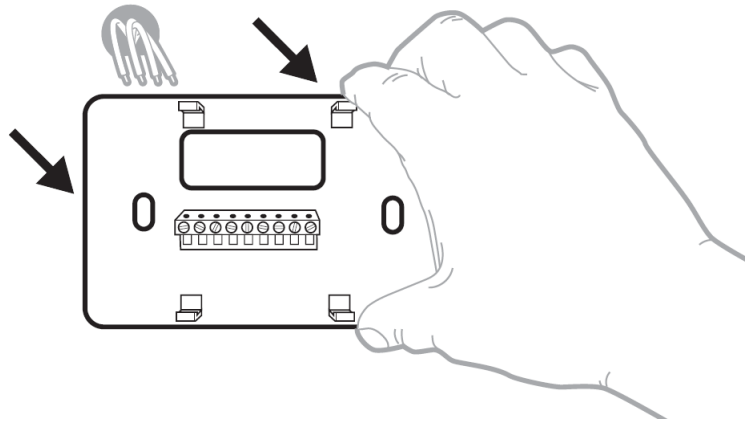
If there are wires in terminals that are not listed, you will need additional wiring support.

Visit: honeywellhome.com to find out if the thermostat will work for you.

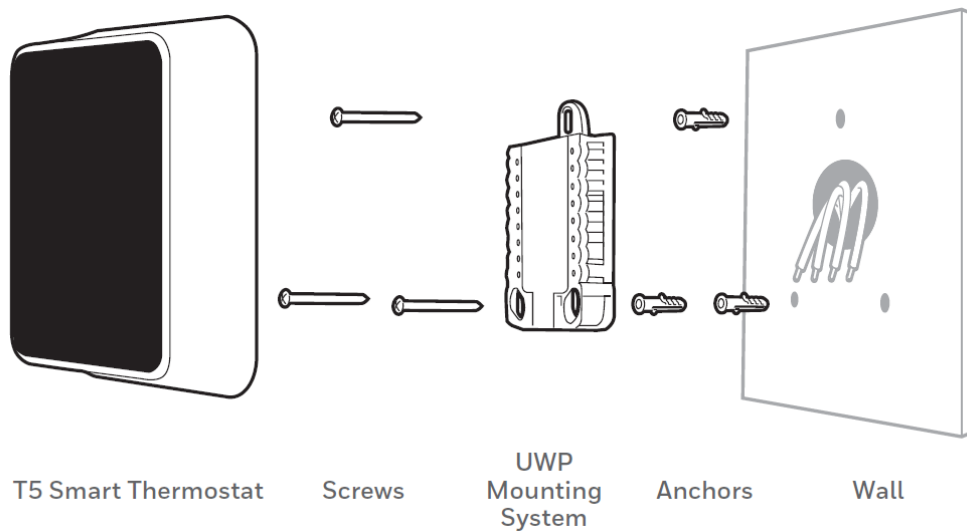
9. Disconnect the wires and remove the old wall plate

Use a screwdriver to release wires from terminals.

Tip: To prevent wires from falling back into the wall, wrap the wires around a pencil.



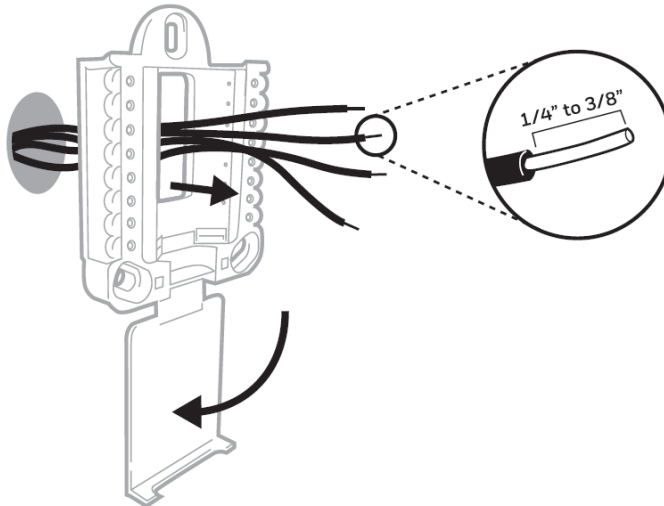
Installing your T5 Smart Thermostat



10. Bundle and insert wires through the UWP

Pull open the UWP and insert the bundle of wires through the back of the UWP.

Make sure at least 1/4-inch (6.4 mm) of each wire is exposed for easy insertion into the wire terminals.



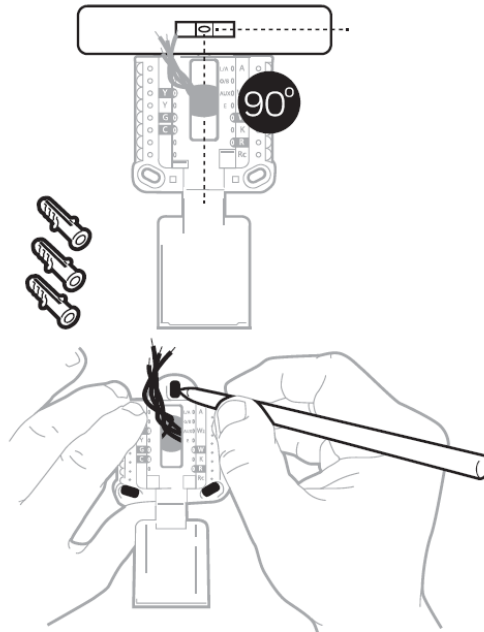
11. Insert the wall anchor

It is recommended that you use the wall anchors included in the box to mount your thermostat.

You can use the UWP to mark where you want to place the wall anchors.

- Level the wall plate.
- Mark the location of the wall anchors using a pencil.
- Drill the holes.
- Insert wall anchors.
- Make sure anchors are flush with wall.

Tip: Use a 7/32 (5.6 mm) drill bit.



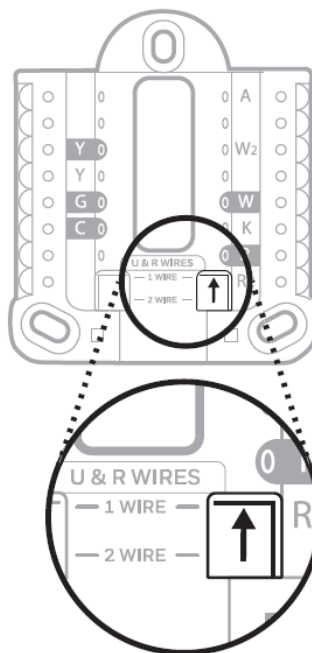
12. Set R-switch position and insert R-wire or wires

Set the R-switch up or down based on your wiring notes in Step 7.

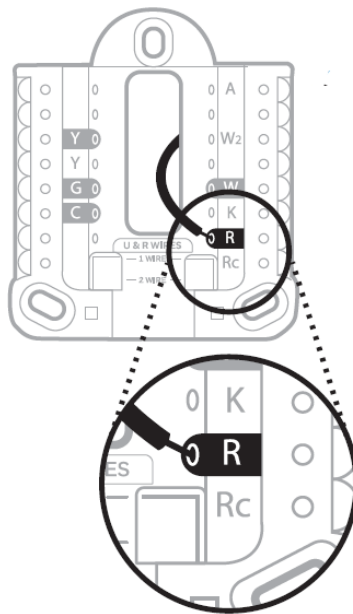
Insert wires into the inner holes of the terminals on the UWP. The tabs will stay down once the wire is inserted.

If you have 1 R-wire (R, Rh, or Rc)

1. Set R-switch to the up position.



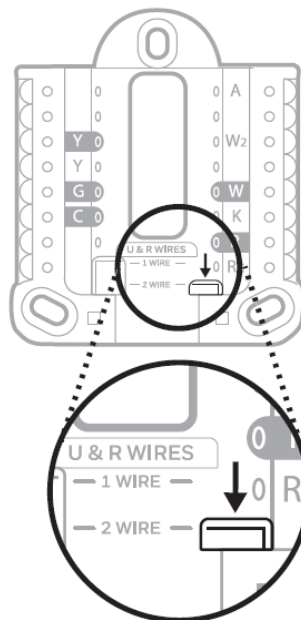
2. Insert your R-wire R-terminal.



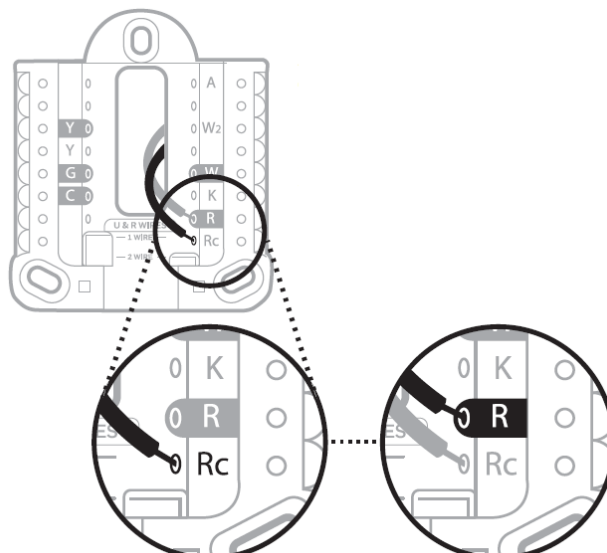
or

If you have 2 R-wires (R or Rh, and Rc)

1. Set R-switch to the down position.



2. Insert your Rc wire into Rc-terminal.
3. Insert your R or Rh wire into R-Terminal.



13. Connect remaining wires from Step 8

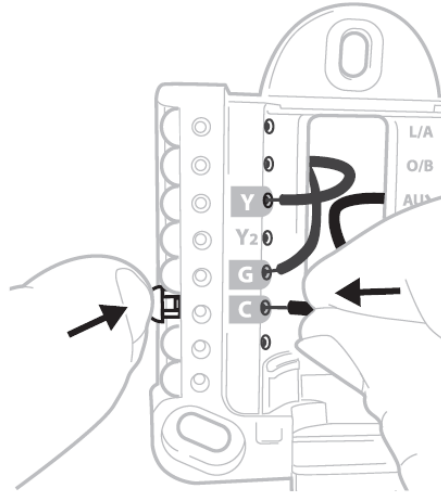
Tip: Do not mount the UWP to the wall prior to connecting the wires.

Depress the tabs to put the wires into the inner holes of their corresponding terminals on the UWP (one wire per terminal) until it is firmly in place.

Gently tug on the wires to verify they are secure.

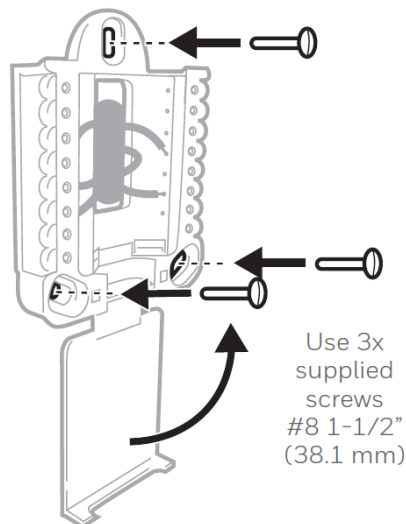
Tip: If you need to release the wires again, push down the terminal tabs on the sides of the UWP.

This wiring is just an example,
actual wiring may vary.



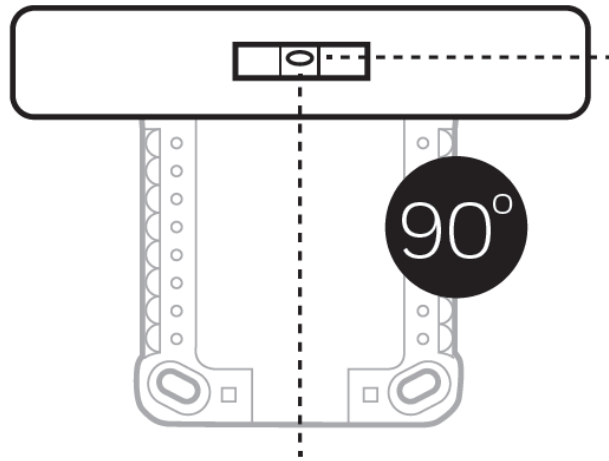
14. Mount the UWP and close the door

Mount the UWP using the provided screws. Install all three screws for a secure fit on your wall. Close the door after you're finished.



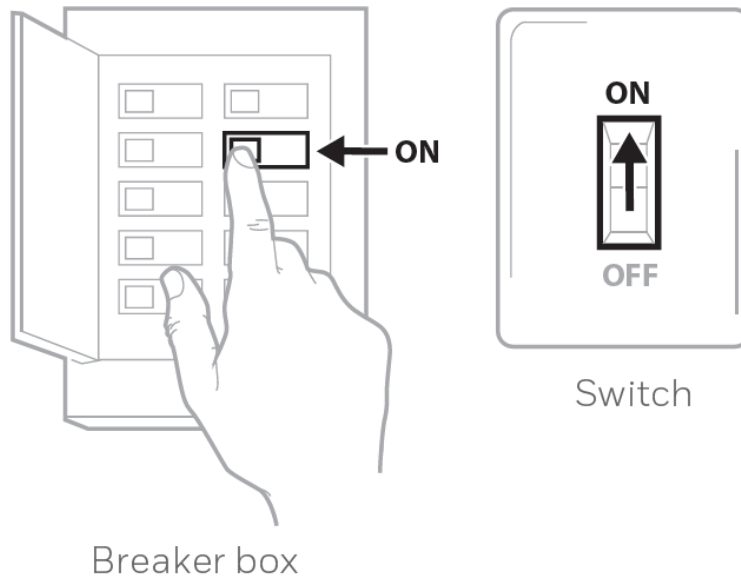
15. Attach your thermostat

Align the thermostat onto the UWP and firmly snap it into place.



16. Turn your power ON

Turn on the power at the breaker box or switch that controls the heating/ cooling system.



17. Return to the thermostat

Return to the thermostat. Confirm the screen shows START SETUP. If it does, continue to “Setup with Resideo App” on page 15.

If your thermostat does not show START SETUP, please contact Resideo support.



Setup with Resideo App

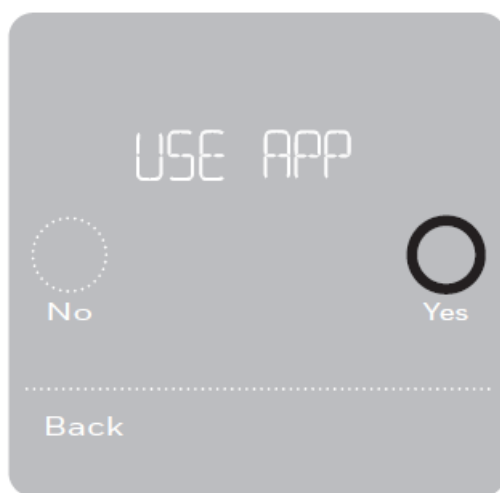
1. Start Setup with the app

Touch START SETUP on thermostat.



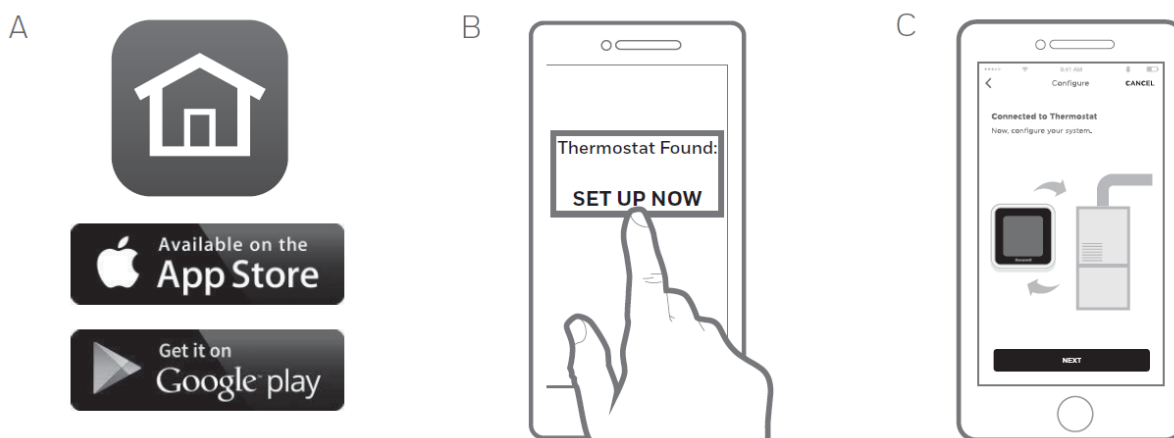
2. Select to setup with the app

Touch Yes on the USE APP screen.

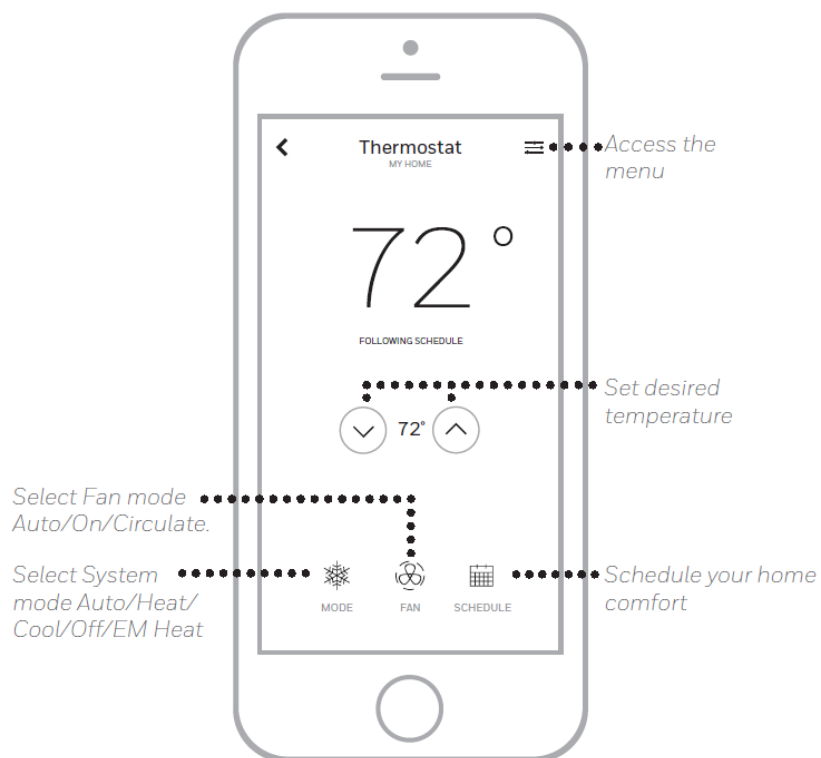


3. Your thermostat is now ready to be configured using the Resideo app

- Download the “Resideo” app from the App store or Google play.
- Open the Resideo app. Your thermostat should appear under Thermostat Found. Tap SET UP NOW as shown below to continue. If your thermostat doesn’t appear, create an account (if necessary), or sign in to your Resideo account. Then select the T5 Smart Thermostat to install.
- The Resideo app will walk you through the rest of setup.



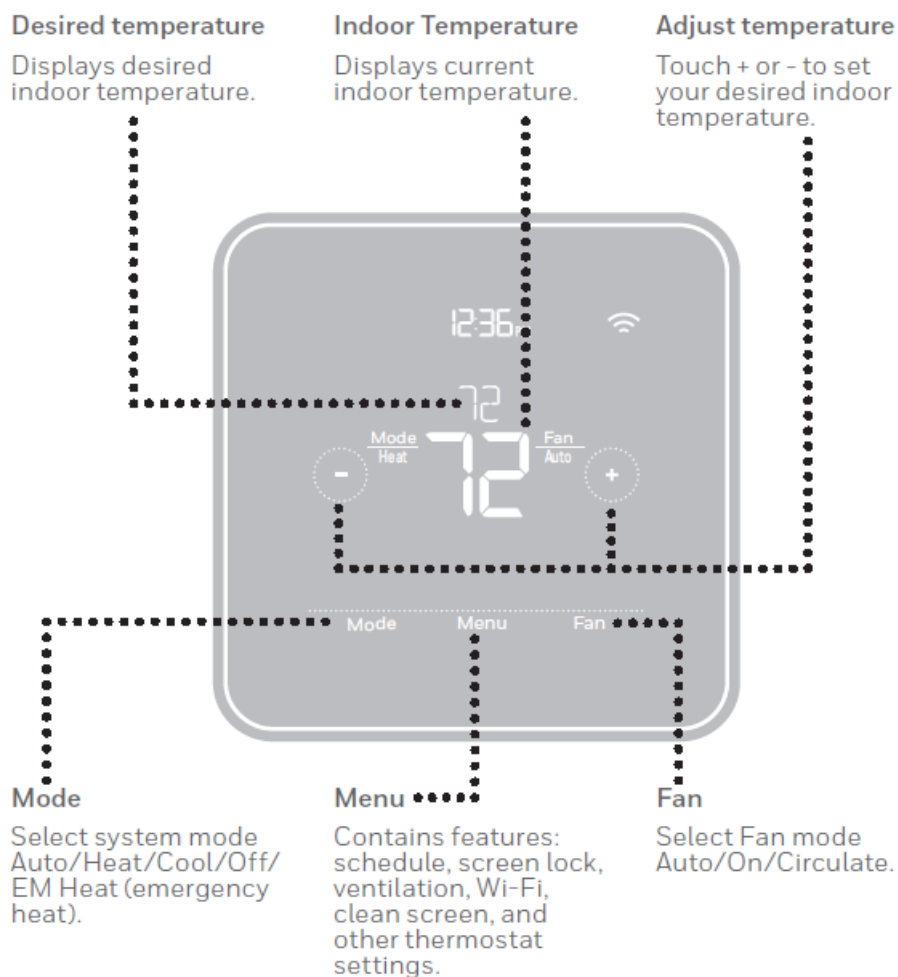
How to use your Resideo App



Interested in more Resideo products?

Visit honeywellhome.com to learn about all available products connected by the Resideo App. App is regularly enhanced and may change.

How to use your T5 Smart Thermostat



The screen will wake up by touching the center area of displayed temperature.

Manual Setup

If your Wi-Fi network is not working, you can alternatively setup your thermostat manually and connect your phone later.

1. Start manual setup

Touch START SETUP to begin.



2. Select manual setup

On the USE APP screen, touch No.



3. Navigate and edit setup options

Use or to navigate through all the setup options. To see a list of all setup options, go to pages 20-21.

To edit an option value, touch Edit or touch text area.

The value is now blinking. Use or to select the correct value.

Touch Done or touch text area once the correct value is selected.



4. Finish Setup

Touch until you see Finish Setup. Touch Select or touch text area.



5. Setup Wi-Fi

At the end of setup process you will be prompted to SETUP WIFI. If your Wi-Fi is still not working, you have to manually set the time and date. Select No on the SETUP WIFI screen.



6. Set time and date

Set daylight saving time if you are in an area that follows daylight saving time. Set date, clock format and time on the next screens.



7. Your thermostat is now setup

Refer to page 17 for more information about basic operation.

Equipment Setup Options

Option #	Option Name	Option Value (factory default in bold)
120	Schedule Type	<p>No Schedule</p> <p>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 different</p> <p>Note: You can change default MO-FR, SA-SU schedule here. To edit periods during days, temperature setpoints, or to turn Schedule On/ Off, touch MENU from the Home screen and go to SCHEDULE.</p>

200	System Type	<p>Conventional Forced Air, Heat Pump, Boiler, Cool Only</p> <p>Note: This option selects the basic system type your thermostat will control.</p>
205	Equipment Type	<p>Conventional Forced Air Heat: Standard Gas, High Efficiency Gas, Oil, Electric, Fan Coil</p> <p>Heat Pump: Air to Air, Geothermal</p> <p>Boiler: Hot Water, Steam</p> <p>Note: This option selects the equipment type your thermostat will control. Note : This feature is NOT displayed if feature 200 is set to Cool Only.</p>
218	Reversing Valve	<p>O/B on Cool, 0/B on Heat</p> <p>Note: This option is only displayed if the Heat Pump configured. Select whether reversing valve O/B should energize in cool or in heat.</p>
220	Cool Stages/ Compressor Stages (#200=Conv./ #200=HP)	<p>0, 1, 2</p> <p>Note: Select how many Cool or Compressor stages of your equipment the thermostat will control. Maximum of 2 Cool/Compressor Stages.</p>

221	Heat Stages/ Aux/ E Stages (#200=C onv./ #200=HP)	Heat Stages: 0, 1, 2 Aux/E stages: 0, 1 Note: Select how many Heat or Aux/E stages of your equipment the thermostat will control. Maximum of 2 Heat Stages for conventional systems. Maximum of 1 Aux/E stage for systems with more than 1 heating equipment type.
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Frequently Asked Questions

Will the T5 Smart thermostat still work if Wi-Fi connection is lost?

Yes, the temperature can be adjusted directly at the thermostat. However, some features, including geofencing, are managed only through the Resideo app and will not function while the connection is down. The thermostat will automatically reconnect to Wi-Fi once the network is restored.

The T5 Smart thermostat is not finding the in home Wi-Fi network.

thermostat operates in the 2.4 GHz range. That may be why the thermostat does not see the network but the smartphone, which operates in both the 2.4 and 5.0 GHz range, sees the network. Most routers will broadcast two networks, one SSID on the 5.0 GHz radio and one SSID on the 2.4 GHz radio.

A change was made on the Resideo app but it has not shown up on the T5 Smart thermostat. There may be a short delay after making temperature and setting changes in the Resideo app.

Can there be multiple users for geofencing?

Yes, there can be multiple users. Geofencing will trigger based on the last person to leave and the first person to return. To properly use geofencing with multiple users:

- Each user needs to create their own account.
- Each user should use their login ID and password across his or her devices, including smartphones and tablets.
- No two users should share the same account.

How are multiple users set up with thermostat?

Access can be given to any or all thermostat locations through the Resideo app. Start by touching the three-line menu icon in the upper left-hand corner of the home screen. Select Manage Users and touch Add User located at the bottom of the screen. Type in the email address of the person to be invited. If they have a account set up, the location will be automatically added to their account. If they don't have an account, they will receive an email invitation prompting them to download the Resideo app and create their own account.

Note: All individuals with access to a thermostat share the same user privileges. Users added will be able to change the thermostat's settings, as well as add or delete other users.

Is there a way to extend the signal strength?

The range or distance of the Wi-Fi signal is determined by the router. Check the router's manual for additional information.

There is an alert that says Wi-Fi Signal Lost. What does that mean?

The Wi-Fi signal to the thermostat has been lost. Wait for the thermostat to reconnect or select a new network within the Resideo app configuration menu. If the thermostat is unable to reconnect, you will need to troubleshoot the router to determine the cause.

Why is the thermostat showing up as offline (strike-through Wi-Fi icon) on top of right corner of thermostat display?

If the thermostat displays a strike-through Wi-Fi icon on its screen or shows up as offline on the Resideo app, it has lost connection to the network. Make sure the router is powered and broadcasting. The home's Wi-Fi network may need to be reset by power cycling the router. Consult the router's instruction manual for directions on power cycling. When the network has been restored, the thermostat will automatically reconnect.

An activation email hasn't been received.

An email will be sent from connected-home@alarmnet.com. An activation email is needed to complete the account setup. If an activation email is not received after five minutes, check the Spam folder of the email account.

If you do not find it in the Spam folder, click on the Resend button and the activation email will be resent. If you still do not receive your activation email, please contact the Technical Support team at 1-800-633-3991 for help.

Regulatory information

FCC REGULATIONS

47 CFR § 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.

47 CFR § 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.

47 CFR § 15.105 (b)

See <https://customer.resideo.com/en-US/support/residential/codes-and-standards/FCC15105/Pages/default.aspx> for additional FCC information for this product.

IC REGULATIONS RSS-GEN

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Apple® HomeKit™ Setup Code

The T5 Smart Thermostat supports Apple HomeKit. Open HomeKit app, follow the instructions and enter the code displayed on Thermostat when prompted.

2-Year Limited Warranty

For Warranty information go to honeywellhome.com

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. AirPlay, iPad, iPad Air, iPad Pro, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. HomePod is a trademark of Apple Inc.



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Documents / Resources

	Honeywell Home RTH Series T5 Smart Thermostat [pdf] Installation Guide RCHT8610WF2006, RCHT8610WF2014, RCHT8610WF3005, RCHT8612WF2005, RCHT8612WF2015, RCHT8612WF3006, RTH8800WF2022, RTH Series T5 Smart Thermostat, RTH Series, RTH Series Smart Thermostat, T5 Smart Thermostat, Smart Thermostat, T5 Thermostat, Thermostat
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References

- [H Honeywell Home | Smart Home Comfort and Security](#)
- [Smart Home Products and Systems | Resideo](#)
- [Support Materials & Resources | Resideo](#)