



Honeywell RTH9580 Wi-Fi Color Touchscreen Programmable Thermostat User Guide

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Honeywell

Quick Start Guide Wi-Fi Color Touchscreen Programmable Thermostat RTH9580 Wi-Fi






This is a legacy product document supported by Resideo. It is no longer manufactured

Welcome

Getting set up and ready is simple.

1. **Install your thermostat.**
2. **Connect your home Wi-Fi network.**
3. **Register online for remote access.**

Before you begin

	<p>View the installation video at wifithermostat.com/support</p>
	<p>You will need your camera to take a picture of your old wire connections.</p>
	<p>You will also need:</p> <ul style="list-style-type: none"> • Small screwdriver • Pen • Thermostat ID card • Your home Wi-Fi network password

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 - 1.1 **Switch OFF power to your heating/cooling system**
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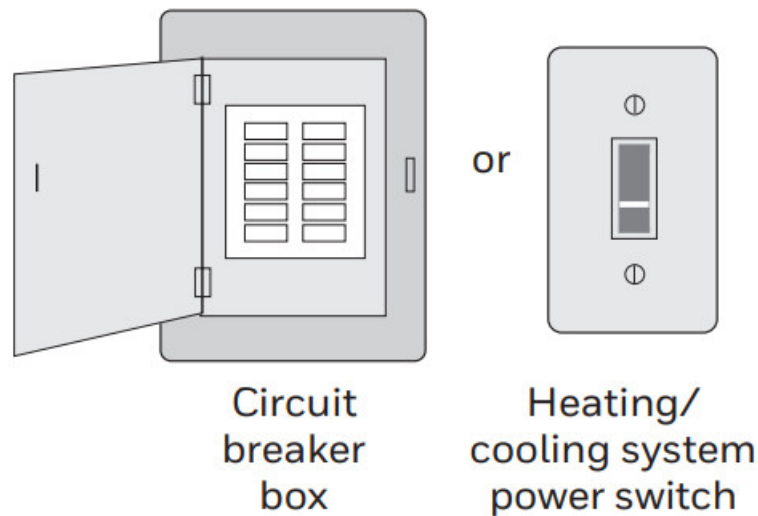
Install your thermostat

Switch OFF power to your heating/cooling system

1.1a **Important!** To protect your equipment, switch OFF the power to your heating/ the cooling system at the breaker box or the system switch.

1.1b Confirm power is OFF.

Try to turn on heating/ cooling equipment by changing the temperature on your old thermostat. Your power is OFF if your system does not turn ON.



This thermostat works with common 24 volt systems such as forced air, hydronic, heat pump, oil, gas, and electricity. It will not work with millivolt systems, such as a gas fireplace, or with 120/240 volt systems such as baseboard electric heat.

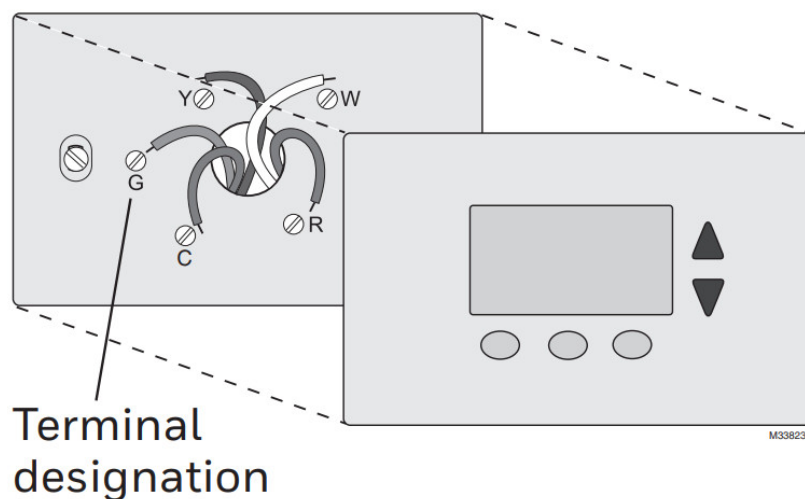
Remove old thermostat faceplate and leave wires connected



1.2a Take a picture of the wire connections for later reference.



1.2b If no wire is connected to a terminal labeled C or no C terminal exists on the old thermostat, view the Alternate Wiring videos at honeywellhome.com/support Important! C wire is required and is the power source for your thermostat. Without a C wire, your thermostat will not power up.



Note: You will need a picture of your wire connections to wire the new thermostat.



If you have an older thermostat with a sealed mercury tube, see the warning page for proper disposal instructions.

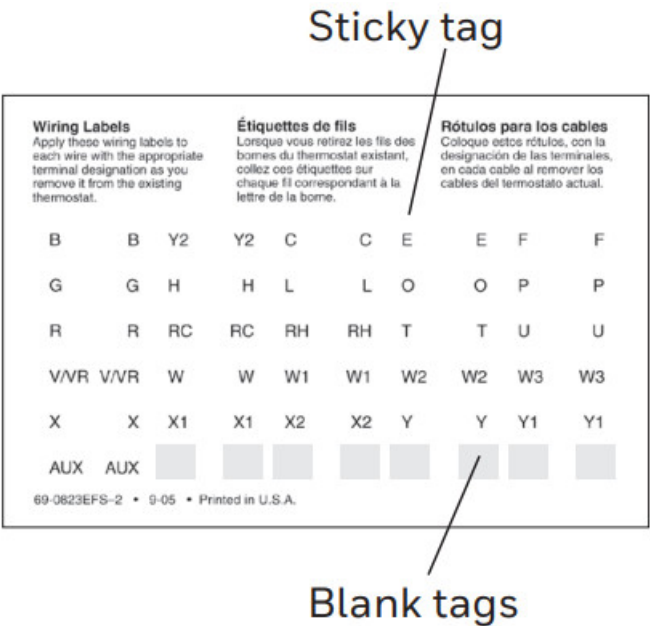
Label wires

Do NOT label by wire color.

Use the supplied sticky tags to label each wire as you disconnect it. Label wires according to old thermostat terminal designations, not by wire color.

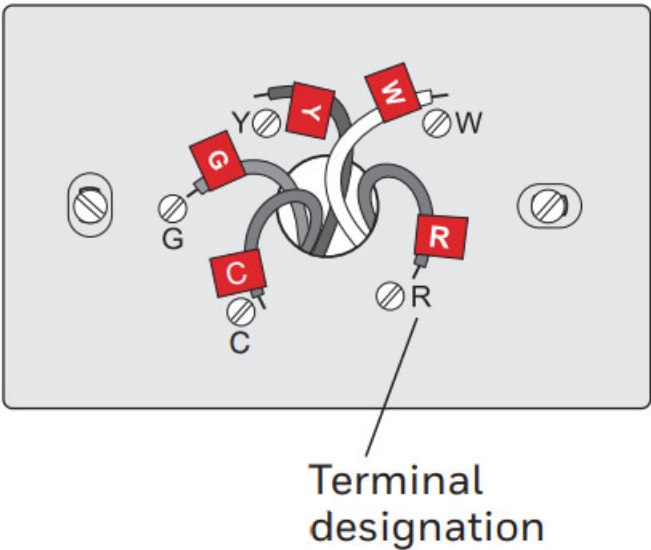
Tip: If no tag matches a terminal designation, write the appropriate letter on a blank sticky tag.

Tip: Wrap the wires around a pencil to prevent them from falling back into the wall.



Remove old wallplate

Remove the old wall plate from the wall after all wires are labeled and disconnected.

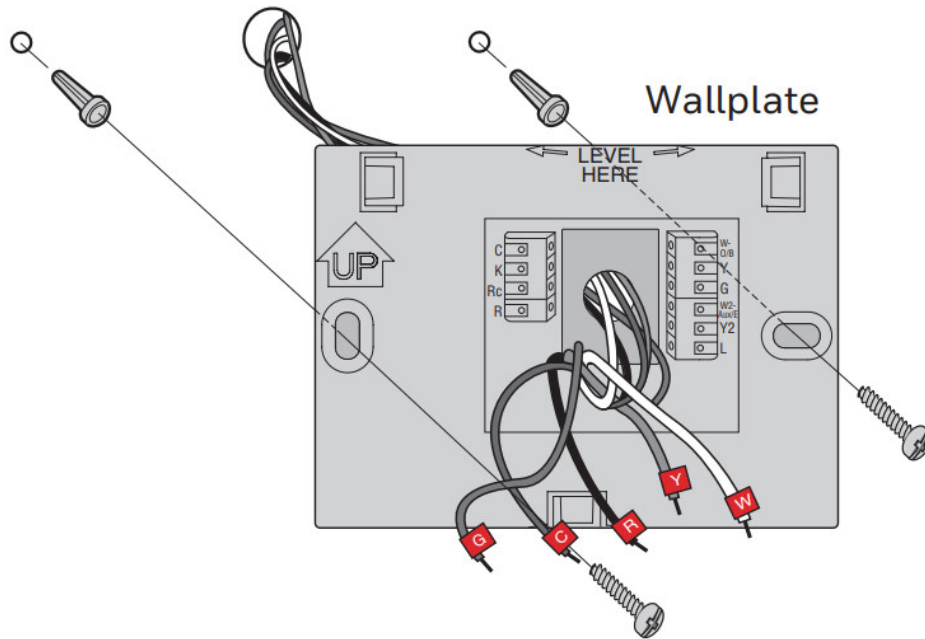


Mount new wallplate for Wi-Fi thermostat

Mount your new wallplate using screws and anchors included with the thermostat.

If necessary:

- Drill 3/16-in holes for drywall
- Drill 7/32-in holes for plaster



Note: You may be able to use your existing wall anchors. Hold the wallplate up to the existing anchors to check for alignment.

Connect wires

Important! C wire is required and is the power source. Without a C wire, your thermostat will not power up.



View the Alternate Wiring videos at honeywellhome.com/wifi-thermostat

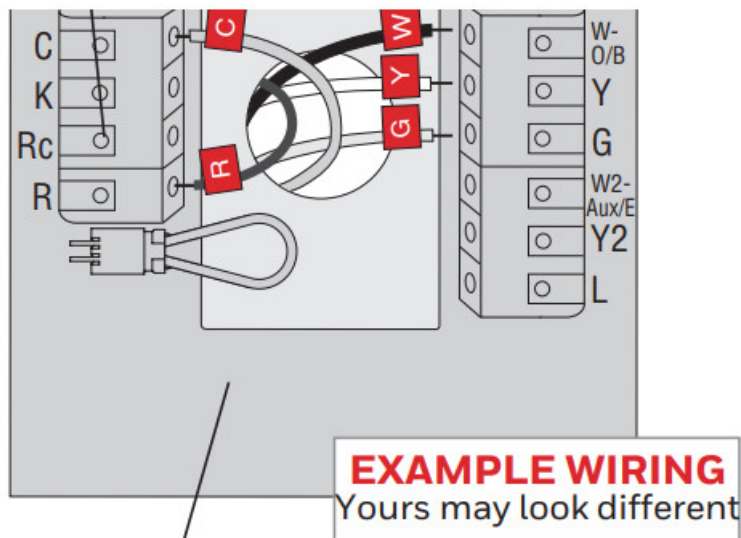
1.6a Starting with the C Wire, match the sticky tag on the wire to the terminal labels.

1.6b Straighten wire and gently slide into the terminal hole until it snaps into place. (If you need to remove a wire, use a pen tip to press the terminal release and then pull the wire out.)

Note: Refer to the wiring picture you took in Step 1.2.

Tip: To make it easier to slide the wire into place, use a pen tip to hold down the terminal release.

Note: The wiring for your application might be different than the wiring shown below.



Remove jumper loop
ONLY if you have both **R**
and **Rc** wires.



Labels don't match or have a heat pump system? See User Guide.

1.6c In the image on the right, check the box next to each connection. You will use this checklist in Step 1.9.

1.6d Verify wire is firmly secured by gently pulling on the wire.

1.6e Repeat steps a–d for all other wires.

1.6f Push any excess wire back into the wall opening after all wires are installed.



Important!

Check the box for each wire you connect. You will need this information in Step 1.9.

C	<input type="checkbox"/>	<input type="checkbox"/>	W-O/B
Rc	<input type="checkbox"/>	<input type="checkbox"/>	Y
R	<input type="checkbox"/>	<input type="checkbox"/>	G
		<input type="checkbox"/>	W2-Aux/E
		<input type="checkbox"/>	Y2
		<input type="checkbox"/>	L

Note: The L terminal on the lower right is used only for Heat Pump systems.

Note: If the old Heat Pump thermostat had separate wires on Aux and E, connect the **Aux** and **E** wires and one end of a new piece of wire using a wire nut (not included). Then slide the other end of the new wire into the **W2-Aux/E** terminal.

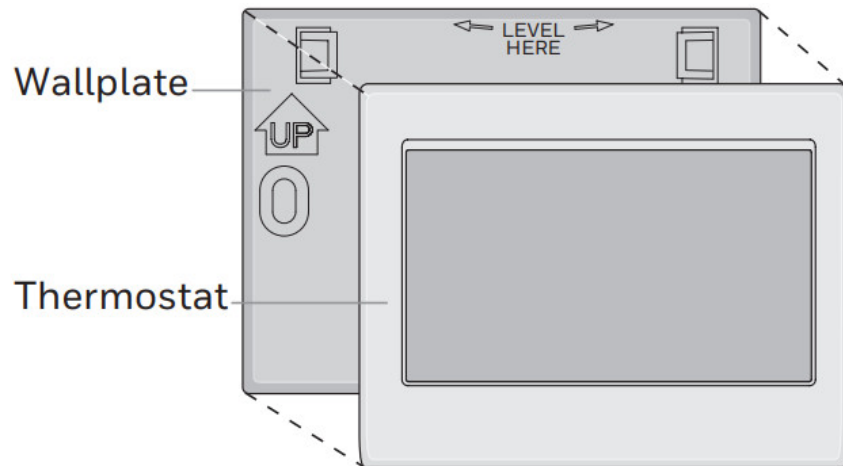


Labels don't match or have a heat pump system?

See User Guide.

Attach thermostat to wallplate

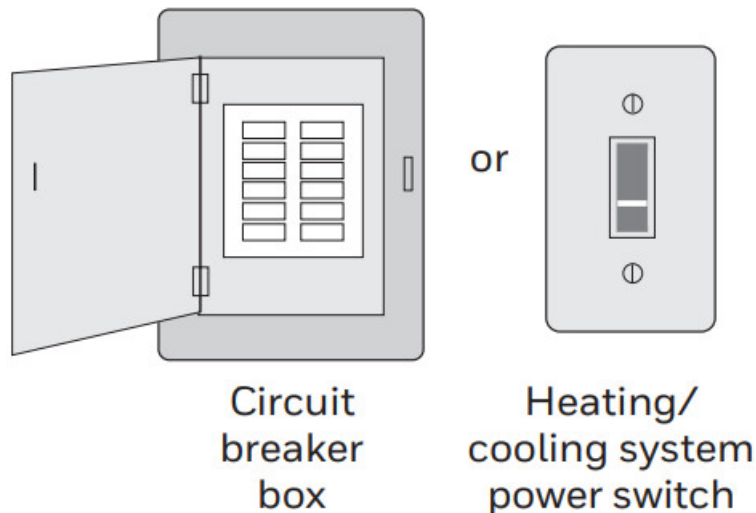
Align the thermostat with a wallplate and snap it into place.



Switch heating/cooling system ON

Important!

- 1.8a Verify that the C wire is connected at the thermostat and at the heating/cooling system.
- 1.8b Make sure the heating/ cooling system door is firmly secured.
- 1.8c Switch power back ON for your heating/cooling system at the breaker box or its power switch.



Select setup

Before connecting to your Wi-Fi network, you need to set initial thermostat options to define your heating/cooling system:

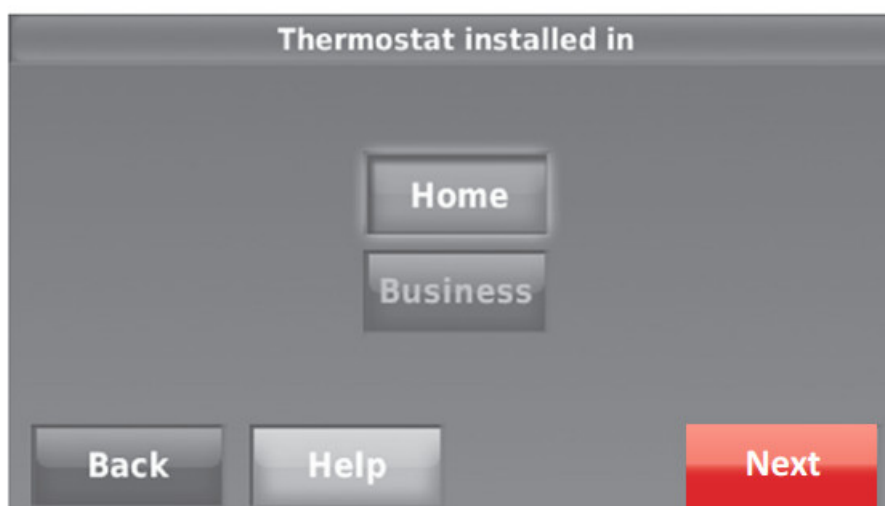
- Language
- Home or business

Follow prompts on the screen to select appropriate options.

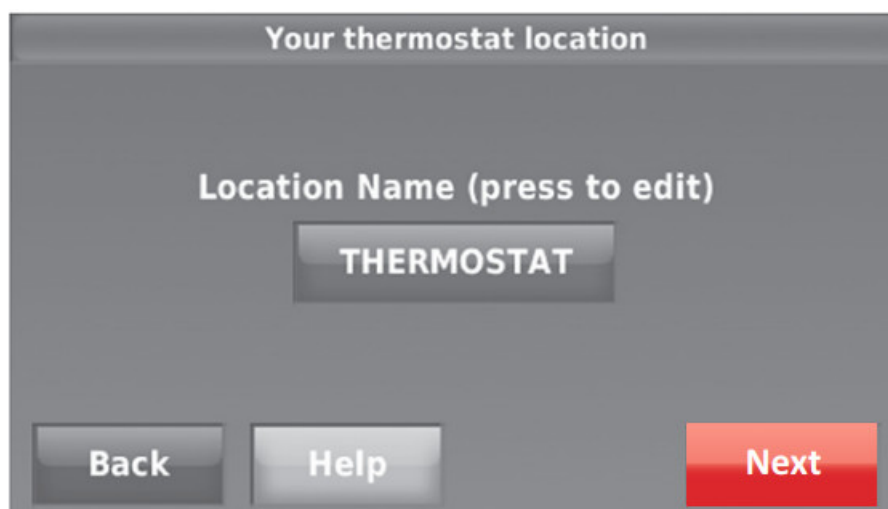
1.9a Touch the language you want the thermostat to display, then touch Next.



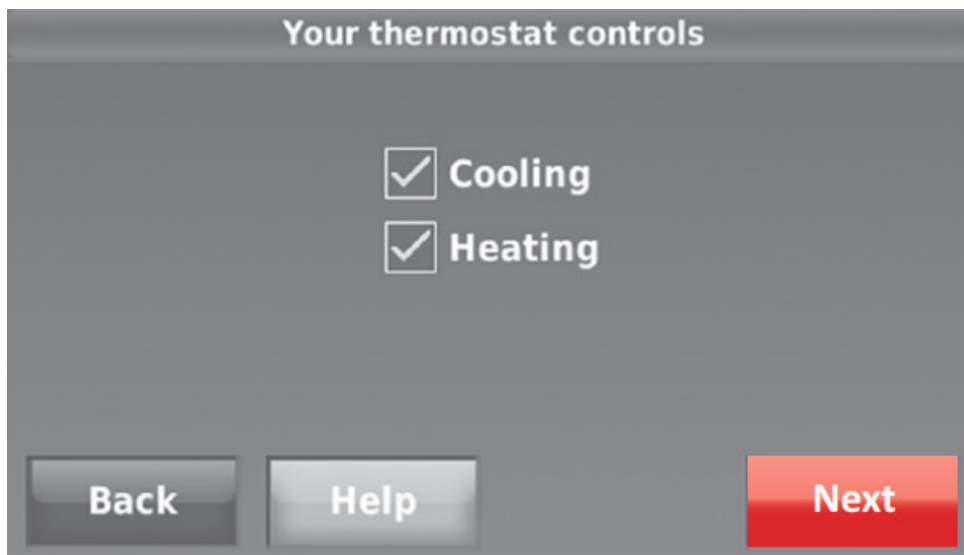
1.9b Select Home or Business application, then touch Next.



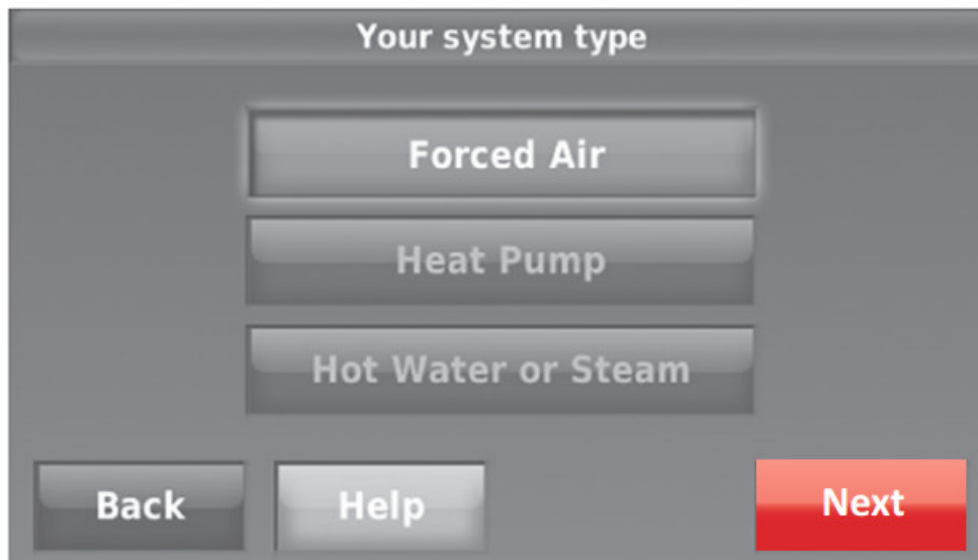
1.9c Touch Next or name the thermostat location.



1.9d Select what your thermostat will control and touch **Next**.



1.9e Select your system type and touch **Next**.



View the Heating and Cooling System Type video at honeywellhome.com/support

1.9f The system type determines other setup options. Use the checklist from Step 1.6 to help make additional selections after you select system type.

1.9g Touch Next after making selections on each screen.

1.9h Touch Done on the last screen.

The thermostat displays an option to connect to your Wi-Fi network.

Connect to your Wi-Fi network

Connect the Wi-Fi network



Important!

Wi-Fi connection is required for voice.

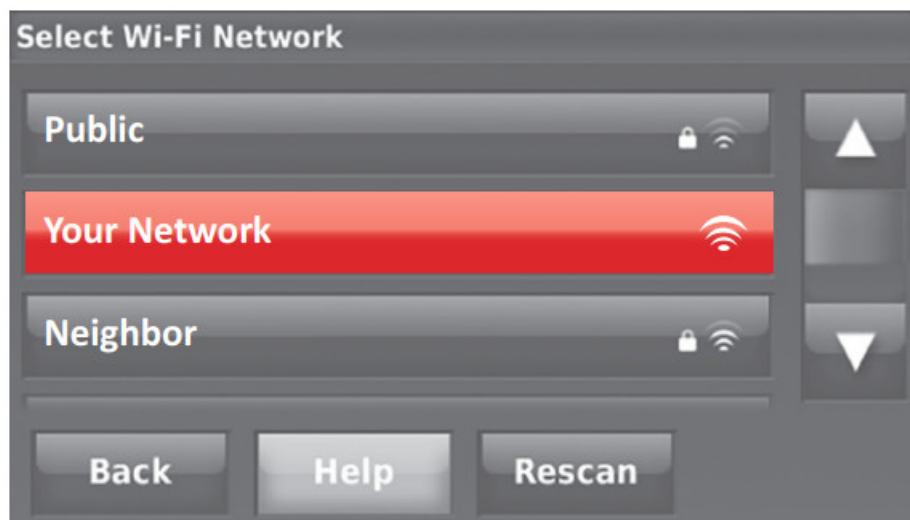
After touching Done on the final screen of the initial setup (Step 1.9h), the thermostat displays an option to connect to your Wi-Fi network.



2.1a Touch **Yes** to connect the thermostat to your Wi-Fi network. The screen displays the message “Searching for wireless networks. Please wait...” after which it displays a list of all Wi-Fi networks it can find.

Note: If you cannot complete this step now, touch I’ll do it later. The thermostat will display the home screen. Complete this process by selecting MENU > Wi-Fi Setup. Continue with Step 2.1b.

2.1b Touch the name of the network you want to use. The thermostat displays a password page.



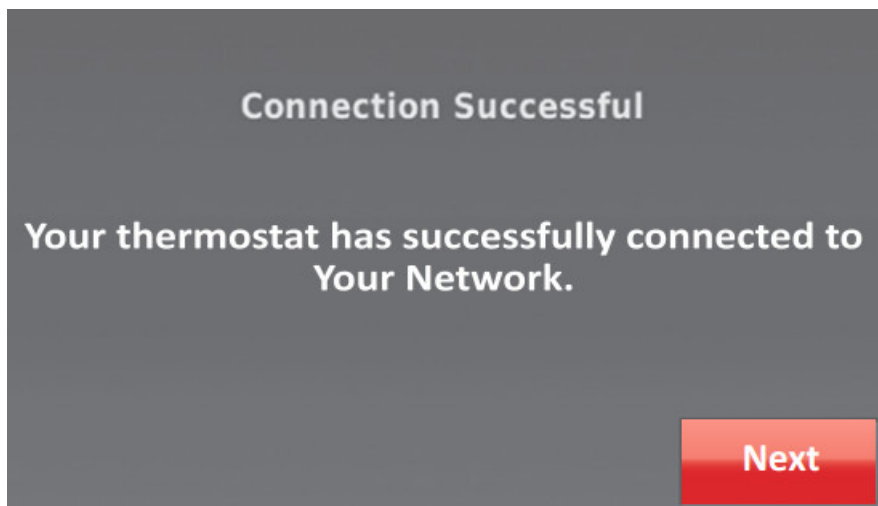
2.1c Using the keyboard, touch the characters that spell out your home network password.



2.1d Touch **Done**. The thermostat displays “Connecting to your network. Please wait...” then shows a “Connection Successful” screen.

Note: If your home network is not shown on the list, touch **Rescan**.

2.1e Touch **Next** to display the registration information screen.



Getting Help

If you get stuck...

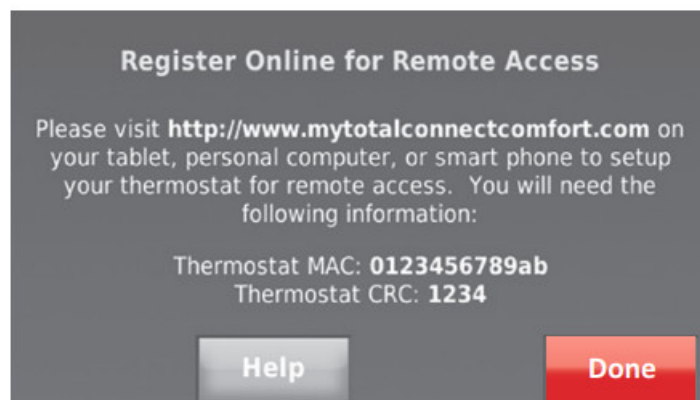
At any point in the Wi-Fi connection process, restart the thermostat by removing the thermostat from the wallplate, wait for 5 seconds, and snap it back into place. From the home screen, touch **MENU > Wi-Fi Setup > Choose a Network**. Continue with Step 2.1b.

Need more help? Find additional information in the User Guide.

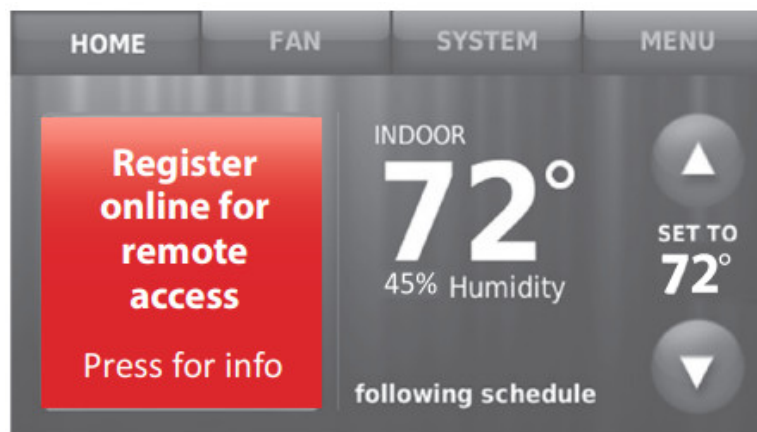
Register online for remote access

To register your thermostat, follow the instructions on Step 3.1.

Note: The Register Online screen remains active until you complete registration and/or touch **Done**.



Note: If you touch **Done** before you register online, your home screen displays an orange alert button telling you to register. Touching that button displays registration information and an option to snooze the task.



To view and set your Wi-Fi thermostat remotely, you must have a Total Connect Comfort account. Follow the instructions below.



View the Wi-Fi Thermostat

Registration video at honeywellhome.com/wifi-thermostat

Open the Total Connect Comfort website

Go to www.mytotalconnectcomfort.com



Log in or create an account

If you have an account, click Login

— or —

Click **Create An Account**.

3.2a Follow the instructions on the screen.

3.2b **Check your email** for a response from My Total Connect Comfort.

This may take several minutes.



Note: If you do not receive a response, check your junk mailbox or use an alternate e-mail address.

3.2c **Follow activation instructions in the email.**

3.2d Log in.

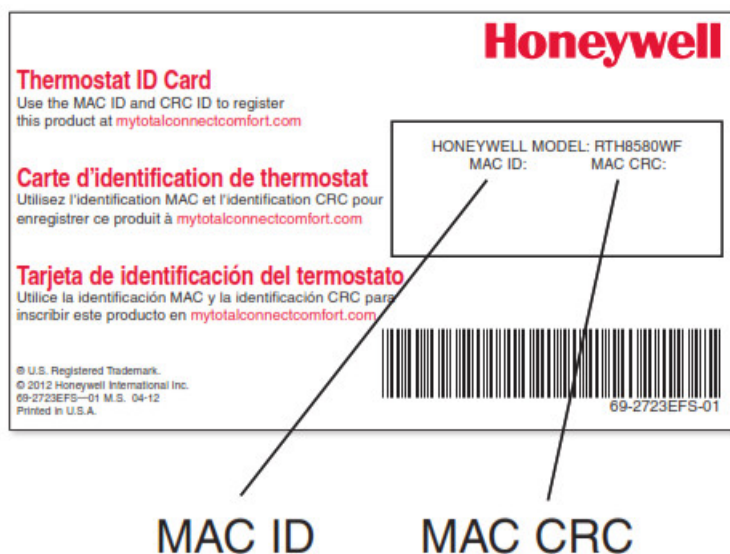
Register your Wi-Fi thermostat

After you are logged in to your Total

Connect Comfort account, register your thermostat.

3.3a Follow the instructions on the screen. After adding your thermostat location you must enter your thermostat's unique identifiers:

- MAC ID
- MAC CRC

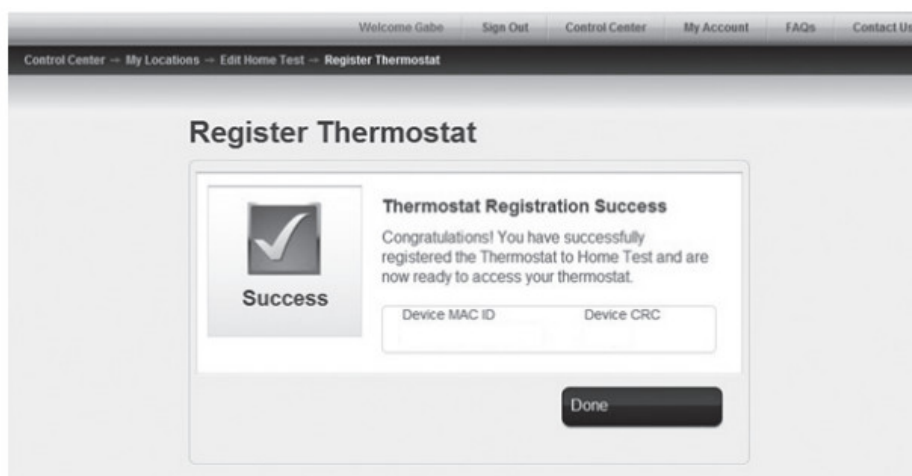


Note: These IDs are listed on the Thermostat ID Card included in the thermostat package. The IDs are not case-sensitive.

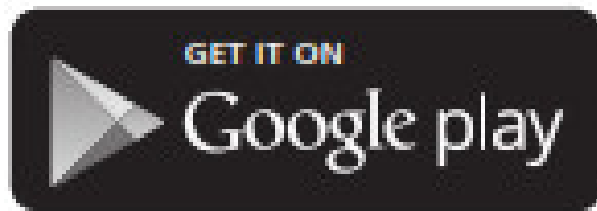
3.3b Notice that when the thermostat is successfully registered, the Total

Connect Comfort registration screen will display a SUCCESS message.

You can now control your thermostat from anywhere through your laptop, tablet, or smartphone.



Total Connect Comfort free app is available for Apple® iPhone®, iPad® and iPod touch® devices at iTunes® or at Google Play® for all Android™ devices.



This thermostat works with common 24 volt systems such as forced air, hydronic, heat pump, oil, gas, and electricity. It will not work with millivolt systems, such as a gas fireplace, or with 120/240 volt systems such as baseboard electric heat.



MERCURY NOTICE: Do not place your old thermostat in the trash if it contains mercury in a sealed tube. Contact the Thermostat Recycling Corporation at www.thermostat-recycle.org or 1-800-238-8192 for information on how and where to properly and safely dispose of your old thermostat.



NOTICE: To avoid possible compressor damage, do not run the air conditioner if the outside temperature drops below 50°F (10°C).

Need help?

Visit wifithermostat.com or call 1-855-733-5465 for assistance before returning the thermostat to the store.



Automation and Control Systems

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Documents / Resources

	<p>Honeywell RTH9580 Wi-Fi Color Touchscreen Programmable Thermostat [pdf] User Guide RTH9580, Wi-Fi, Touchscreen, Thermostat, 69-2810-01, 69-2810</p>
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Manuals+.