

Model RTH8580WF  
Wi-Fi Touchscreen  
Programmable  
Thermostat  
**Quick Start Guide**



**3.3 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:

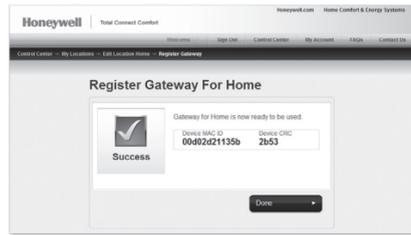
- MAC ID
- MAC CRC

These IDs are listed on the Thermostat ID Card included with the thermostat. 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.

In the thermostat message center you will see:  
**CONGRATULATIONS  
SETUP COMPLETE!**

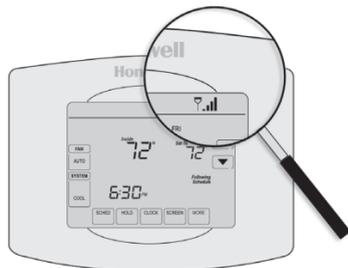


3.3c Also notice that your thermostat will display its home screen and wireless signal strength.

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 contains a Lithium battery which may contain Perchlorate material. Perchlorate Material—special handling may apply. See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)

**!** **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](http://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 air conditioner if the outside temperature drops below 50°F (10°C).

**Need more help?** Visit [wifithermostat.com](http://wifithermostat.com) or call 1-855-733-5465 for assistance before returning the thermostat to the store.

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**Setting Up Your Thermostat**



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

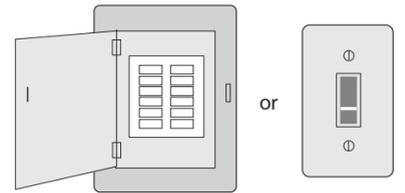
**!** **This thermostat works on 24 volt systems. It will NOT work on 120/240 volt systems.**

**Before you begin,** you may want to view our installation video by scanning this QR® Code specification or visiting [wifithermostat.com](http://wifithermostat.com)

**1 Install your thermostat**

**1.1 Switch OFF power**

To protect your equipment, switch OFF the power to your heating/cooling system at the breaker box or the system switch.

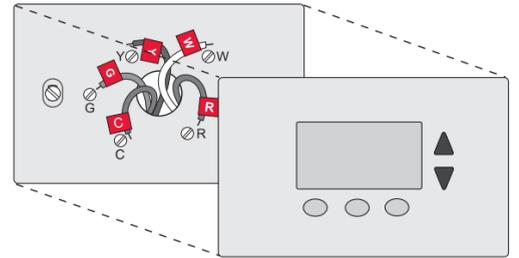


**1.2 Remove old thermostat**

Remove the thermostat while leaving wallplate in place.

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

**!** Take a picture of the wires on your old thermostat for later reference.



**1.3 Label wires**

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.

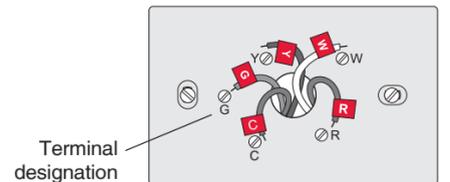
**Note:** If no tag matches a label, write the terminal designation on a blank tag.

Wiring Labels		Étiquettes de fils		Etiquetas para los cables	
B	B	Y2	Y2	C	C
E	E	F	F	F	F
G	G	H	H	L	L
O	O	P	P	O	O
R	R	RC	RC	RH	RH
T	T	U	U	U	U
W	W	W	W	W1	W2
W3	W3	W4	W4	W5	W5
X	X	X1	X1	X2	X2
Y	Y	Y1	Y1	Y1	Y1
Y1	Y1	Y1	Y1	Y1	Y1
ALX	ALX	ALX	ALX	ALX	ALX

Blank tags

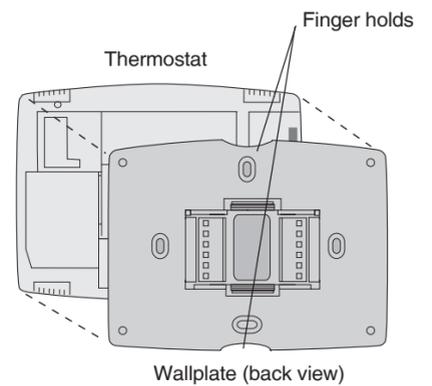
**1.4 Remove wallplate**

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



**1.5 Separate Wi-Fi thermostat and its wallplate**

On your new thermostat, grasp the finger holds on the top and bottom of the wallplate with one hand and the thermostat (front) with the other hand. Pull pieces apart.

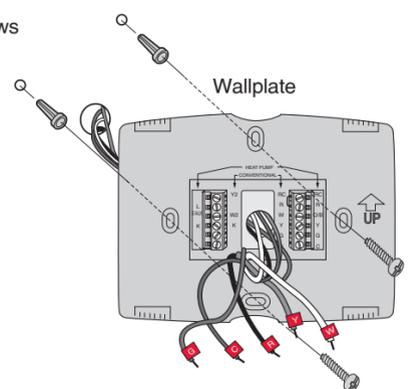


**1.6 Mount wallplate for Wi-Fi thermostat**

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



## 1.7 Connect wires

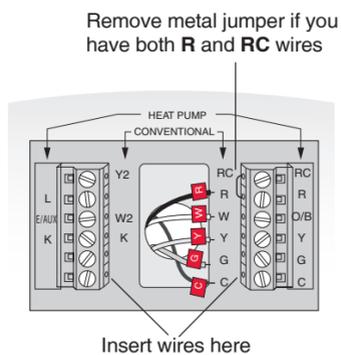
1.7a Match the labels on the wires to the terminal labels.

1.7b Loosen screws, insert wires on inside edge of terminals, then tighten screws.

1.7c Push any excess wire back into the wall opening.

**Note:** The Wi-Fi thermostat requires a C wire to operate. If you don't have a C wire:

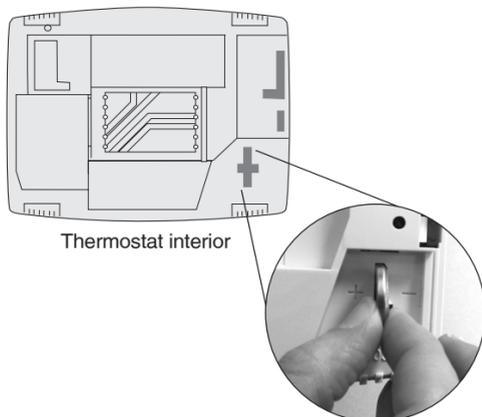
- Look for an unused wire pushed into the wall. Connect that wire to C and check that it is connected to the 24VAC common at your heating/cooling system.
- Install a new wire. If required, find a contractor at [wifithermostat.com](http://wifithermostat.com)



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

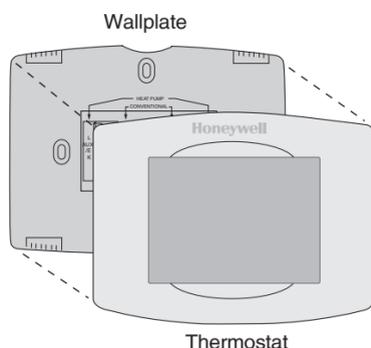
## 1.8 Install battery

Insert the coin cell battery (included), observing the correct polarity.



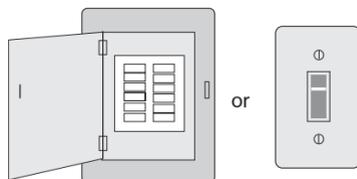
## 1.9 Attach thermostat to wallplate

Align the thermostat onto wallplate and snap into place.



## 1.10 Switch heating/cooling system ON

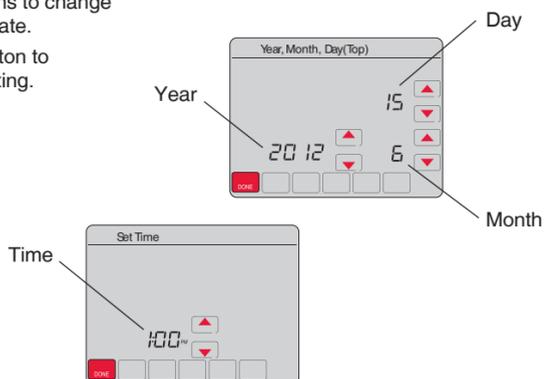
Switch power back to ON for your heating/cooling system at the breaker box or the system switch.



## 1.11 Set date and time

Touch ▲ or ▼ buttons to change displayed time and date.

Press and hold a button to quickly change a setting.



## 1.12 Determine your heating/cooling system type

If your system type is:

- Conventional single stage heat and cool,  
Go to **Step ②**

If your system is:

- Conventional multistage heat and cool
- Heat pump without backup heat
- Heat pump with backup heat
- Heat only
- Cool only

See the *User Guide* to match your thermostat to your system type.

**? If you are not sure of your heating/cooling system type or have other questions, see *User Guide*.**

# 2 Connect to your Wi-Fi network

To complete this step, you must have a wireless device connected to your home wireless network. Any of these device types will work:

- Laptop (recommended)
- Tablet (recommended)
- Smartphone

The message at the top of your thermostat must say **Wi-Fi SETUP**.

## ? Getting Help

**If you get stuck...** At any point in this process, restart the thermostat by removing the thermostat from the wallplate, wait for 5 seconds, and snap it back into place. Return to **2.1**.

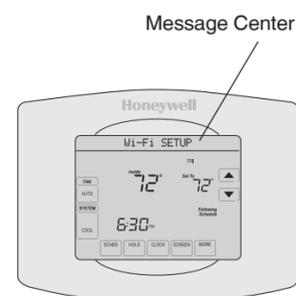
**Need more help?** Find additional information in the *User Guide*.

## 2.1 Connect to your thermostat

2.1a On the wireless device (laptop, tablet, smartphone), view the list of available networks.

2.1b Connect to the network called **NewThermostat\_123456** (the number will vary).

**Note:** If you are asked to specify a home, public, or office network, select **Home Network**.

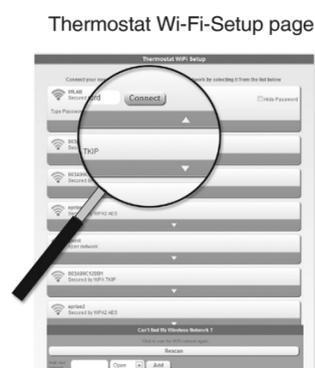


## 2.2 Join your home network

2.2a To access the Thermostat Wi-Fi Setup page, open your browser. The browser should automatically direct you to the correct page; if it does not, go to <http://192.168.1.1>.

2.2b On the Thermostat Wi-Fi Setup page, find the name of your home network and click its **Connect** button.

2.2c Complete the instructions for joining the network. Depending on your network setup, you may see an instruction such as Enter Password (your home network password).



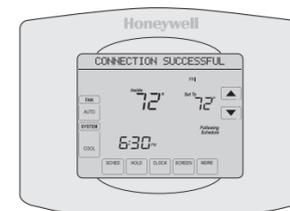
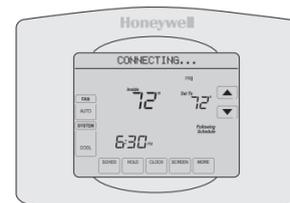
## 2.3 Make sure your thermostat is connected

Notice the thermostat message center. It will display **CONNECTING...** for up to 30 seconds, then **CONNECTION SUCCESSFUL** for one minute.

Then you will see:

**YOU ARE ALMOST DONE!**

Before you can control the thermostat remotely, you need to register it online. Continue to **Step ③**.



# 3 Register online for remote access

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

## 3.1 Open the Total Connect Comfort web site

In an Internet browser, go to [www.mytotalconnectcomfort.com](http://www.mytotalconnectcomfort.com)



## 3.2 Login 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.

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

3.2d Log in.

