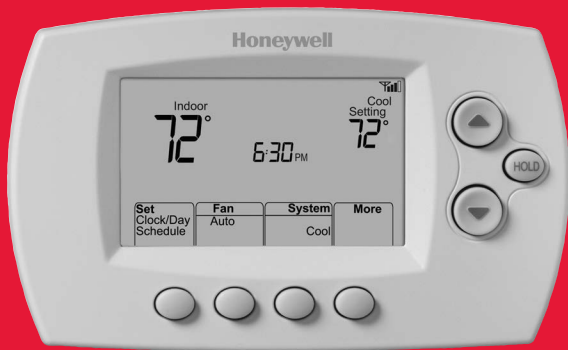




Honeywell

User Guide

FocusPRO® TH6320WF Wi-Fi Series

Programmable Thermostat

In the box you will find

- Thermostat ID Card
- User Guide
- Quick Reference Card





Welcome

Congratulations on your purchase of a Honeywell Wi-Fi programmable thermostat. When registered to Honeywell's Total Connect Comfort Solutions, you can remotely monitor and control the heating and cooling system in your home or business—you can stay connected to your comfort system wherever you go.

Honeywell's Total Connect Comfort is the perfect solution if you travel frequently, own a vacation home, a business or manage an Investment property or if you are simply looking for peace of mind.



This thermostat works with common 24 volt systems such as forced air, hydronic, heat pump, oil, gas, and electric. 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 air conditioner if the outside temperature drops below 50°F (10°C).

Need help?

Visit <http://yourhome.honeywell.com> or call 1-855-733-5465 for assistance.

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Features of your Wi-Fi thermostat

With your new thermostat, you can:

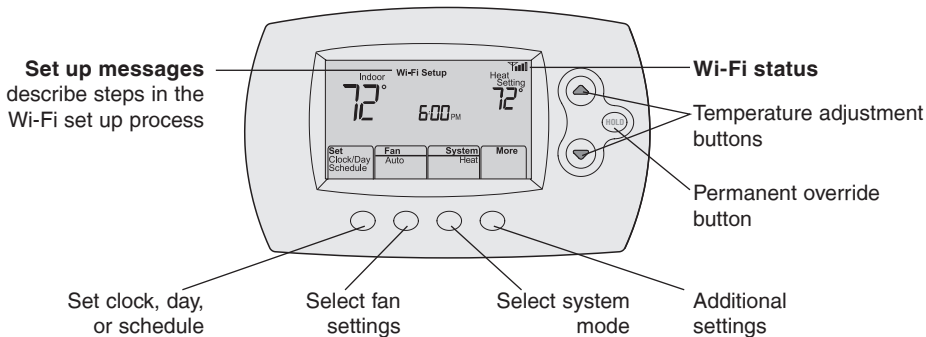
- **Connect to the Internet to monitor and control your heating/cooling system**
- **View and change your heating/cooling system settings**
- **View and set temperature and schedules**
- **Receive alerts via email and get automatic upgrades**

our new thermostat provides:

- **Adaptive Intelligent Recovery (AIR) - the thermostat learns your system so it can turn the heat or cool on early to reach your desired temperature at your desired time.**
- **Compressor protection - the compressor waits a few minutes before restarting, to prevent equipment damage.**
- **Heat/cool auto changeover - the thermostat automatically changes from heating to cooling to keep you comfortable.**

Home screen quick reference

Once your Wi-Fi thermostat is installed, it will display the home screen. Portions of this display will change depending on how you are viewing it.



The screen lights when you press any button. It stays lit for 8 seconds after you complete changes.

Connecting to your Wi-Fi network

Connect your wireless device to your home network. Any of these device types will work:

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

 **If you get stuck...** at any point in this procedure, restart the thermostat by removing the thermostat from the wallplate, wait for 10 seconds, and snap it back onto the wallplate. Go to Step 1 in this procedure, starting on page 7.

Connecting to your Wi-Fi network

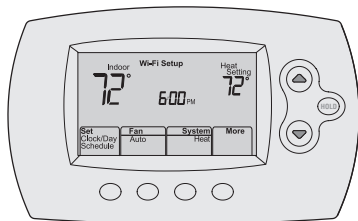
1 Connect to your thermostat.

1a Make sure the thermostat displays Wi-Fi SETUP.

1b On the wireless device (tablet, laptop, smartphone), view the list of available Wi-Fi networks.

1c 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**.



Connecting to your Wi-Fi network

2 Join your home network.

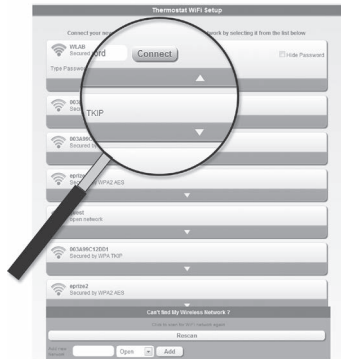
2a Open your web browser to access the Thermostat Wi-Fi Setup page. The browser should automatically direct you to the correct page; if it does not, go to <http://192.168.1.1>

2b Find the name of your home network on this page and select it.

Note: Some routers have enhanced features such as guest networks; use your home network.

2c Complete the instructions for joining your Wi-Fi network and click on the **Connect** button.
(Depending on your network setup, you may see an instruction such as Enter Password for your home network.)

Note: If you did not correctly connect to the thermostat, you may see your home router page. If so, return to Step 1.



Connecting to your Wi-Fi network

Note: If your Wi-Fi network does not appear in the list on the Thermostat Wi-Fi Setup page:

- Try performing a network rescan by pressing the Rescan button. This is helpful in areas with a lot of networks.
- If you are connecting to a hidden network, then enter the network SSID in the textbox, select the encryption type from the drop down menu, and click on the Add button. This manually adds the network to the top of the list. Click on the new network in the list and enter the password if necessary. Click on Connect to join the network.

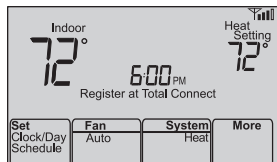
Connecting to your Wi-Fi network

3 Make sure your thermostat is connected.

While the connection is in process, your thermostat will flash **Wait** for up to 3 minutes. When the connection is complete, the display will show **Wi-Fi Setup Connection Success**. The Wi-Fi signal strength will appear in the top-right corner.

After about 60 seconds, the home screen will appear and **Register at Total Connect** will flash until registration is complete.

To register online for remote access to your thermostat continue on page 11.



Note: If the thermostat displays **Connection Failure** or continues to display **Wi-Fi Setup**, confirm you correctly entered your home network password in step 2.

Registering your thermostat online

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

- 1 Open the Total Connect Comfort web site.
Go to www.mytotalconnectcomfort.com



Registering your thermostat online

2 Login or create an account.

If you have an account, click **Login**

– or –

click **Create An Account**

2a Follow the instructions on the screen.

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.

2c **Follow activation instructions** in the email.

2d Log in.



Registering your thermostat online

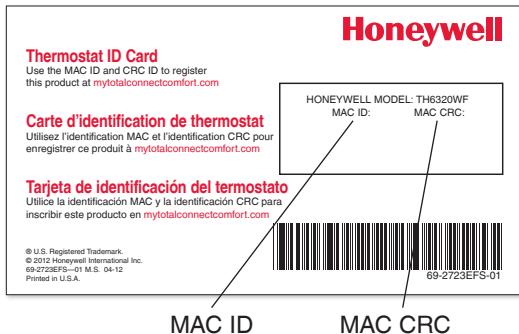
3 Register your Wi-Fi thermostat.

After you are logged in to your Total Connect Comfort account, register your thermostat.

3a Follow the instructions on the screen. After adding your thermostat location, you must enter the thermostat's unique identifiers:

- MAC ID
- MAC CRC

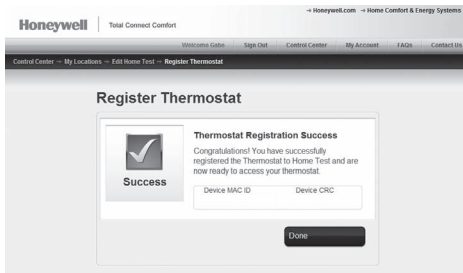
Note: These IDs are listed on the Thermostat ID Card included in the thermostat package. The IDs are not case sensitive.



Registering your thermostat online

3b When the thermostat is successfully registered, the Total Connect Comfort registration screen will display a **SUCCESS** message.

In the thermostat display, you will see **Setup Complete** for about 90 seconds.



Registering your thermostat online

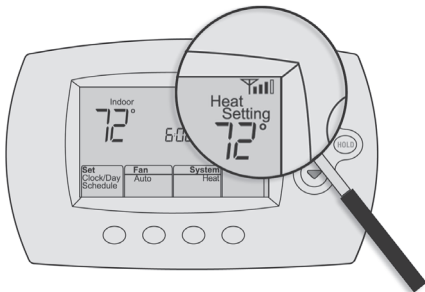
3c Also notice that your thermostat displays its signal strength.

Congratulations! You're done.

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

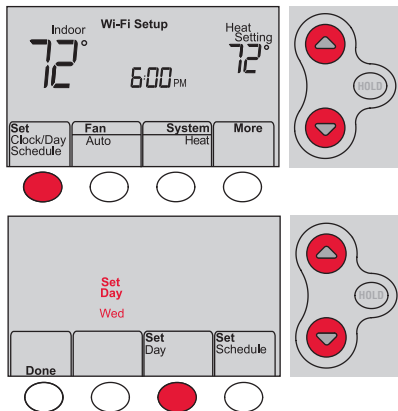


Setting the time and day

- 1 Press **Set Clock/Day/Schedule**, then press ▲ or ▼ to set clock.
- 2 Press **Set Day**, then press ▲ or ▼ to select the day of week.
- 3 Press **Done** to save.

Note: If the **Set Clock/Day/Schedule** option is not displayed, press **Done**.

Note: If the display flashes **Set Clock**, the thermostat will follow your settings for the Monday “Wake” time period until you reset the time and day.



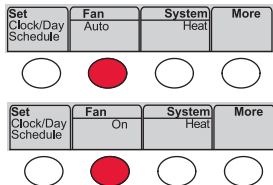
Setting the fan

Press **Fan** to select **On** or **Auto** (toggle to re-select).

Auto: Fan runs only when the heating or cooling system is on. Auto is the most commonly used setting.

On: Fan is always on.

Note: Options may vary depending on your heating/cooling equipment.



Selecting system mode

Press **System** to select:

Heat: Controls only the heating system.

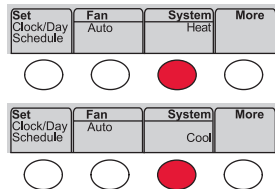
Cool: Controls only the cooling system.

Off: Heating/cooling systems are off.

Auto: Selects heating or cooling depending on the indoor temperature.

Em Heat (heat pumps with aux. heat):

Controls auxiliary/emergency heat.
Compressor is off.



Note: Depending on how your thermostat was installed, you may not see all system settings.

Preset energy-saving schedules

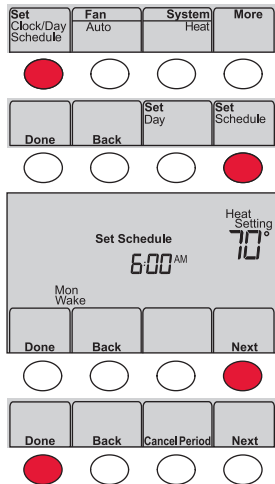
This thermostat is pre-set with energy-saving program settings for four time periods. Using the default settings can reduce your heating/cooling expenses if used as directed. Savings may vary depending on geographic region and usage.

		Default Heat Settings	Default Cool Settings
	WAKE 6:00 am	70°	78°
	LEAVE 8:00 am	62°	85°
	RETURN 6:00 pm	70°	78°
	SLEEP 10:00 pm	62°	82°

Adjusting program schedules

- 1 Press **Set Clock/Day/Schedule**, then **Set Schedule**.
- 2 Press ▲ or ▼ to set your Monday (Mon) Wake time, then press **Next**.
- 3 Press ▲ or ▼ to set the temperature for this period, then press **Next**.
- 4 Set time and temperature for the next time period (Leave). Repeat Steps 2 and 3 for each time period.
- 5 Press **Next** to set time periods for the next day. Repeat Steps 2 through 4 for each day.
- 6 Press **Done** to save and exit.

Note: Make sure the thermostat is set to the system mode you want to program (Heat or Cool).

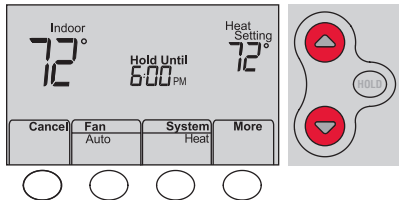


Overriding schedules temporarily

Press ▲ or ▼ to immediately adjust the temperature.

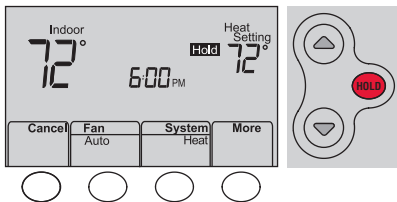
The new temperature will be maintained only until the next programmed time period begins.

To cancel the temporary setting at any time, press **Cancel**. The program schedule will resume.



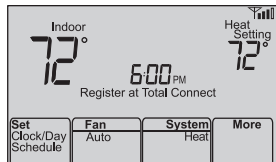
Overriding schedules permanently

- 1 Press **HOLD** to permanently adjust the temperature. This will turn off the program schedule.
- 2 Press ▲ or ▼ to adjust the temperature setting. The temperature you set will be maintained 24 hours a day until you manually change it or press **Cancel** to resume the program schedule



Unregistering thermostat

If you remove the thermostat from your Total Connect Comfort website account (for example, you're moving and leaving the thermostat behind), the thermostat will display **Register at Total Connect** until it is re-registered.



Disconnecting Wi-Fi

Replacing your router

If you disconnect the thermostat from your Wi-Fi network:

- 1 Enter system setup (see page 29).
- 2 Change setting 39 to 0 (see page 32).

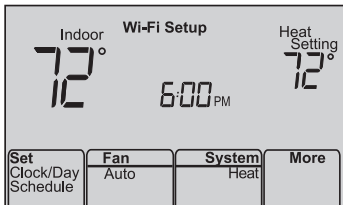
The screen will display **Wi-Fi Setup**.

Re-connect to a Wi-Fi network by following the steps on page 6.

Turning Wi-Fi off

If you do not plan to control the thermostat remotely, you can remove the Wi-Fi Setup message from the screen:

- 1 Enter system setup (see page 29).
- 2 Change setting 38 to 0 (see page 32). Wi-Fi Setup will be removed from the screen.
If you want to connect to the Wi-Fi network later, change setting 38 back to 1.

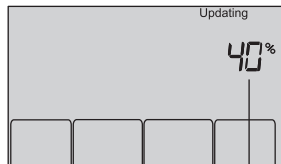


Software updates

Honeywell periodically issues updates to the software for this thermostat. The updates occur automatically through your Wi-Fi connection. All your settings are saved, so you will not need to make any changes after the update occurs.

While the update is taking place, your thermostat screen flashes **Updating** and shows the percentage of the update that has occurred. When the update is complete, your home screen will appear as usual.

Note: If you are not connected to Wi-Fi, you will not get automatic updates.



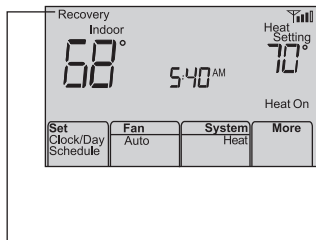
Percentage of
update complete

Adaptive Intelligent Recovery (AIR)

This feature allows the thermostat to “learn” how long the heating/cooling system takes to reach programmed temperature settings, so the temperature is reached at the time you set.

For example: Set the Wake time to 6:00 am, and the temperature to 70°. The heat will come on *before* 6:00 am, so the temperature is 70° by 6:00 am.

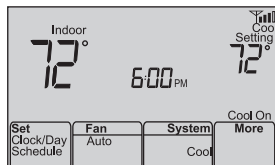
Note: System setting function 13 controls Smart Response Technology. See “Adaptive Intelligent Recovery (AIR)” on page 30.



The message **Recovery** is displayed when the system is activated before a scheduled time period.

Compressor protection

This feature forces the compressor to wait a few minutes before restarting, to prevent equipment damage.



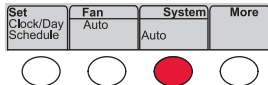
The message **Cool On** (or **Heat On** for a heat pump) will flash during the wait time.

Auto changeover

This feature is used in climates where both air conditioning and heating are used on the same day.

When the system is set to **Auto**, the thermostat automatically selects heating or cooling depending on the indoor temperature.

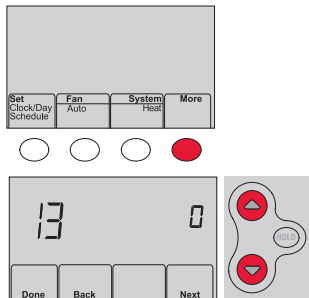
Heat and cool settings must be at least 3 degrees apart. The thermostat will automatically adjust settings to maintain this 3-degree separation.



Setting functions and options

You can change system preferences for a number of system options. The functions, along with available options are described on pages 30-32.

- 1 Press **More** and hold for approximately 3 seconds. The screen will change to display two numbers and the button designations will be **Done**, **Back**, blank, **Next**.
- 2 Press **Next** until you see the function number—the larger number on the left—you want to set.
- 3 Change options for any function by pressing ▲ or ▼ until the correct option (smaller number on right) is displayed.
- 4 Repeat Steps 2 and 3 until you have set all functions that you wish to change.
- 5 When you have made all changes, press **Done** to save and exit.



User setup

Function		Settings & Options	
<i>13</i>	Adaptive Intelligent Recovery (AIR)	<i>1</i>	On
		<i>0</i>	Off
<i>14</i>	Temperature Format (°F/°C)	<i>0</i>	Fahrenheit
		<i>1</i>	Celsius
<i>15</i>	Schedule Options	<i>1</i>	Program schedule is on (7-day programmable).
		<i>0</i>	Program schedule is off. Thermostat can not be programmed.

User setup

Function	Settings & Options
36 Device Name This name will identify the thermostat when you view it remotely. If you register multiple thermostats, give each one a different name.	52 = Thermostat 1 Basement 2 Bathroom 3 Bathroom 1 4 Bathroom 2 5 Bathroom 3 6 Bedroom 7 Bedroom 1 8 Bedroom 2 9 Bedroom 3 10 Bedroom 4 11 Boat House 12 Bonus Room 13 Computer Room 14 Den 15 Dining Room 16 Exercise Room 17 Family Room 18 Fireplace 19 Foyer 20 Game Room 21 Garage 22 Great Room 23 Guest Room 24 Gym 25 Kid's Room 26 Kitchen 27 Kitchen 1 28 Kitchen 2 29 Laundry Room 30 Library 31 Living Room 32 Lower Level 33 Master Bath 34 Master Bed 35 Media Room 36 Music Room 37 Nursery 38 Office 39 Office 1 40 Office 2 41 Pantry 42 Play Room 43 Pool Room 44 Porch 45 Rec Room 46 Sewing Room 47 Spa 48 Storage Room 49 Studio 50 Sun Room 51 Theater 52 Thermostat 53 Upper Level 54 Utility Room 55 Walk In Closet 56 Wine Cellar 57 Workshop

User setup

Function		Settings & Options	
38	Wi-Fi On/Off	1	Wi-Fi is on and can be connected to a Wi-Fi network.
		0	Wi-Fi is off. Thermostat cannot be connected to a Wi-Fi network. If you are not connecting the thermostat to a Wi-Fi network this will remove the text Wi-Fi Setup from the messaging center.
39	Wi-Fi Connection	1	Connected to Wi-Fi network. This is set automatically when the thermostat is connected to the Wi-Fi network.
		0	Set to 0 to disconnect from the Wi-Fi network.
42	Show period and day of week	0	Period and day are not shown on the home screen.
		1	Period and day are shown on the home screen.
85	Restore Schedule Defaults	0	Continue using programmed schedule.
		1	Restore thermostat program to energy saving settings

Frequently asked questions

Q: Will my thermostat still work if I lose my Wi-Fi connection?

A: Yes, the thermostat will operate your heating and/or cooling system with or without Wi-Fi.

Q: How do I find the password to my router?

A: Contact the manufacturer of the router or check the router documentation.

Q: Why am I not seeing my Wi-Fi setup page?

A: You are probably connected only to your router, not to your thermostat. Try connecting to the thermostat again.

Q: Why isn't my thermostat connecting to my Wi-Fi router even though it is very close to the thermostat?

A: Verify that the password entered for the Wi-Fi router is correct.

Frequently asked questions

Q: Where can I find my MAC ID and MAC CRC codes?

A: The MAC ID and MAC CRC numbers are included on a card packed with the thermostat or on the back of the thermostat (visible when removed from wallplate). Each thermostat has a unique MAC ID and MAC CRC.

Q: My thermostat is unable to register to the Total Connect Comfort website.

A: Verify that the thermostat is correctly enrolled on your home Wi-Fi network. You might also see the Wi-Fi Signal strength icon. Verify that the Wi-Fi router has a good internet connection. On your computer, verify that you can open the site at mytotalconnectcomfort.com. If you cannot open the site, switch off the internet modem for a few seconds, then power it back on.

Q: I registered on the Total Connect Comfort website but was unable to login using my new account.

A: Check your email and ensure that you received an activation email. Follow the instructions to activate your account and then login to the website.

Frequently asked questions

Q: I have signed up on the Total Connect Comfort website and have not received a confirmation email.

A: Check for the email in your Junk or Deleted folder.

Q: Is there a way to extend the signal strength?

A: Most standard routers can be set up to be a repeater. You can also purchase and install a Wi-Fi repeater.

Need help?

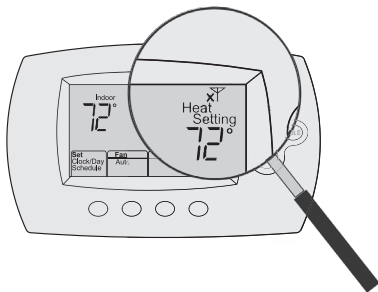
Visit <http://yourhome.honeywell.com> or call 1-855-733-5465 for assistance.

Troubleshooting

Lost Signal

If the no-Wi-Fi indicator displays in place of the Wi-Fi strength indicator in the upper right hand corner of the home screen:

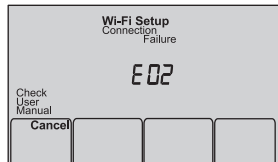
- Check another device to be sure Wi-Fi is working in your home; if not, call your Internet Service Provider.
- Move the router.
- Restart the thermostat: remove it from the wallplate, wait 10 seconds, and snap it back onto the wallplate. Return to page 6, Connecting to your Wi-Fi network.



Troubleshooting

Error Codes

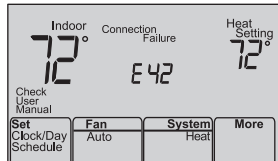
For certain problems, the thermostat screen will display a code that identifies the trouble. Initially, error codes are displayed alone in the time area of the screen; after a few minutes, the home screen is displayed and the code alternates with the time.



Error Code	Action
E01 During Wi-Fi Setup, the router lost power.	• Ensure your router has power. • If trying to connect to a hidden or manually added network, confirm the router has power and is working.
E02 Invalid Wi-Fi password. This code displays for 30 seconds, then the thermostat will re-enter Wi-Fi Setup mode.	• Re-enter password for your home Wi-Fi network. • Repeat setup process and confirm your password for your home Wi-Fi network.

Troubleshooting

Error Code	Action
E42 Router is not issuing an IP address to the thermostat.	• Wait for 30 minutes, connection can take several minutes. • If still no connection, remove thermostat from wallplate for 10 seconds, then reconnect it (see page 6). • Verify your router is correctly setup to automatically give IP addresses.
E43 No internet connection. Thermostat cannot communicate to Total Connect Comfort.	• Make sure the Internet cable is plugged in. • Reboot the router.
E99 General error	Remove thermostat from wallplate for 10 seconds, then reconnect it (see page 6).



Troubleshooting

If you have difficulty with your thermostat, please try the following suggestions. Most problems can be corrected quickly and easily.

Display 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.

Cool On or Heat On is flashing on the screen

- Compressor protection feature is engaged. Wait 5 minutes for the system to restart safely, without damage to the compressor.

Heating or cooling system does not respond

- Press **System** to set system to Heat. Make sure the temperature is set higher than the Inside temperature.
- Press **System** to set system to Cool. Make sure the temperature is set lower than the Inside temperature.
- Wait 5 minutes for the system to respond.

Glossary

MAC ID, MAC CRC

Alphanumeric codes that uniquely identify your thermostat.

QR Code®

Quick response code. A two-dimensional, machine-readable image. Your wireless device can read the black and white pattern in the square and link its browser directly to a web site. QR Code is a registered trademark of DENSO WAVE INCORPORATED.

Regulatory information

FCC Compliance Statement (Part 15.19) (USA only)

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.

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 Interference Statement (Part 15.105 (b)) (USA only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the

instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Regulatory information

Thermostats

To comply with FCC and Industry Canada RF exposure limits for general population/ uncontrolled exposure, the antenna(s) used for these transmitters must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

RSS-GEN

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

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.

5-year limited warranty

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of five (5) years from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option).

If the product is defective,

- (i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it; or
- (ii) call Honeywell Customer Care at 1-855-733-5465. Customer Care will make the determination whether the product should be returned to the following address: Honeywell Return Goods, Dock 4 MN10-3860, 1885 Douglas Dr. N., Golden Valley, MN 55422, or whether a replacement product can be sent to you.

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

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69-2736EFS-07

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69-2736EFS—07 M.S. Rev. 01-15

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