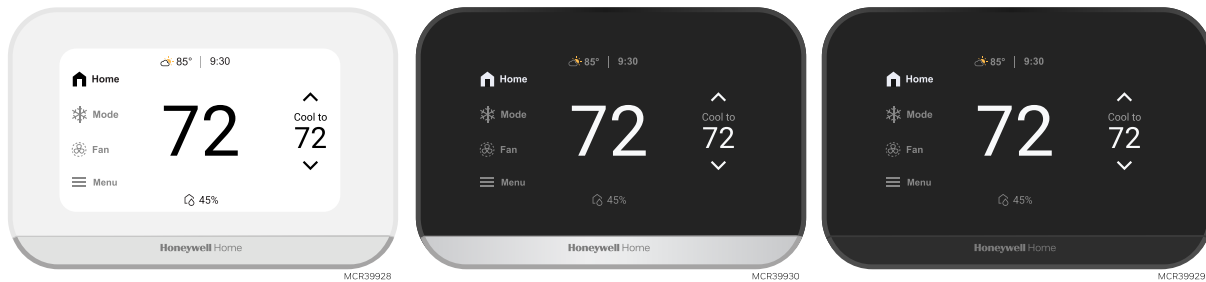


Honeywell Home

X7S & X7B Smart Thermostats

Installation and User Manual



Models

X7SWF3W, X7SWF4WC, X7SMC4B, X7SMC4BC, X7BMC2B.

See "X7S & X7B Smart Thermostats and Accessories" on page 6 for detailed model information.

Package Includes:

- X7S & X7B Smart Thermostat
- UWP Wall Plate
- Screws and Anchors
- Thermostat Literature
- **NOTE:** Kits may include other accessories.



Access the latest version of this documentation online by scanning the QR code or by visiting the following link:

info.honeywellhome.com/x7-im



33-00769-01 5/26

Table of Contents

- Table of Contents 2
- Compatibility 3
- Features 4
- Model Numbers 6
- Dimensions 7
- Specifications 8
- Getting Started With Installation 10
- Setup 20
- Sensor Installation (X7S models only) 27
- Advanced Setup Options 28
- WiFi Setup and Troubleshooting 29
- Main Menu 32
- Set Time and Date 36
- System Mode and Fan Settings 36
- Alerts and Reminders 37
- Scheduling and Auto-Away 39
- Getting the Most from the X7S & X7B Smart Thermostats 44
- Waiting for Equipment 48
- Battery Replacement 49
- Using the First Alert App 50
- Advanced Features 51
- FAQ's 53
- Troubleshooting and Support 56
- Regulatory 60



Compatibility

The X7S & X7B Smart Thermostats feature effortless, 7-Day programming on an easy-to-use touchscreen.

- For indoor use only
- Required: 24 VAC power (“C” wire)
- Compatible with 24 VAC systems including:
 - Up to 3 Heat/2 Cool heat pump systems with electric backup heat
 - Up to 2 Heat/2 Cool gas or oil force air and air-conditioning
 - Radiant hot water systems
 - X7 models can not control a humidifier, dehumidifier, or ventilator. X8 models can support these systems. [Learn more about X8 thermostats.](#)
- Does not work with electric baseboard heat (120-240V).
- Does not support input (S terminals) for indoor and outdoor sensors.
- Android or iOS smartphone, tablet, or device.
- Compatible with a 2.4 GHz or 5 GHz WiFi network.

Features

ENERGY STAR®



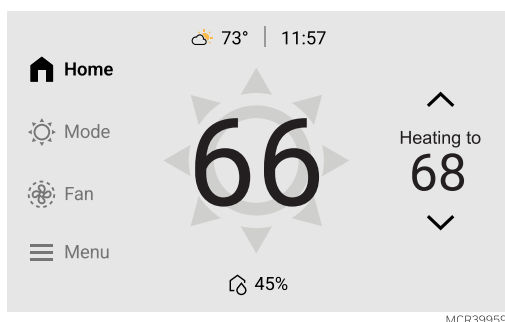
- This ENERGY STAR® certified WiFi thermostat features flexible scheduling and auto-away functionality.
- **Get Rewarded**
Search for energy providers near you who offer thermostat incentives and rebates at: resideo.info/utility-savings-programs

Capabilities

- **XRSENSOR Indoor Sensor** compatible. (Up to 20 sensors per thermostat). Used with X7S only.
Optional wireless indoor temperature, humidity, and motion sensors can enhance comfort and convenience needs. They can be used in combination for temperature averaging or individually. These devices also sense motion and you can select priority zones based on where motion is detected or by scheduling.
- **Flexible scheduling** allows you to choose location-based temperature control (Auto Away technology), program a set schedule or use a combination of both to make sure your home is always comfortable. Refer to "[Scheduling and Auto-Away](#)" on [page 39](#) for more information.
- **Built-in radar sensor** can be used with wireless sensors as part of the priority comfort settings and can transition from idle to active screen on approach (X7S only).
- **Tip:** The First Alert App can be used to manage multiple thermostats and multiple users in a household.
- **Smart Alerts:** The X7S & X7B Smart Thermostat can send alerts for occurrences such as extreme indoor temperatures and reminders for filter changes and other required maintenance.
- **Auto change from Heat to Cool:** When Auto mode is selected, the X7S & X7B Smart Thermostat can automatically determine whether your home needs heating or cooling to reach the desired temperature.
- **Adaptive Recovery:** The X7S & X7B Smart Thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it. See "[Adaptive Recovery \(Sometimes called “Adaptive Intelligent Recovery”\)](#)" on [page 52](#) to learn more.

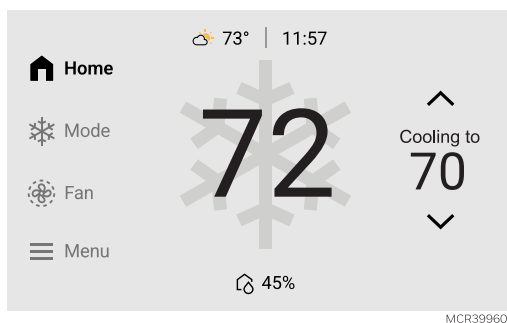
Heating and Cooling Status Display

Calling for heat



When the thermostat is calling for heat, there will be a sun icon behind the room temperature reading on the display and the thermostat will show "Heating to" (rather than "heat to") above the heat setpoint.

Calling for Cool



When the thermostat is calling for cooling, there will be a snowflake icon behind the room temperature reading on the display and the thermostat will show “Cooling to” (rather than “Cool to”) above the cool setpoint.

NOTE:

If “WAITING FOR EQUIPMENT” is shown in the display, the thermostat is delaying the heat or cool call to protect the equipment from short cycling. The delay should not last more than 5 minutes.

AUX Heat Indication:

Display shows “**Using Auxiliary heat**” above the room temperature.

Matter Setup

The X7S & X7B Smart Thermostat supports Matter. At thermostat, select the **Menu** icon. Then choose **Matter** and follow the instructions (refer to ["Getting the Most from the X7S & X7B Smart Thermostats" on page 44](#) for more information).

Model Numbers

X7S & X7B Smart Thermostats and Accessories

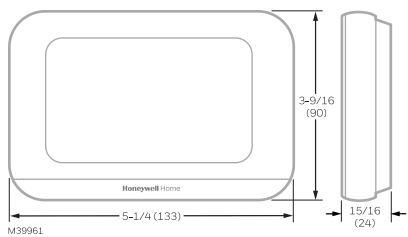


Product	Part Number	Operating Ambient Temperature	Operating Relative Humidity	Shipping Temperature	Dimensions in inches (mm)
X7S White Thermostat with Silver accent	US: X7SWF3W Canada: X7SWF4WC	Thermostat: 37 to 102 °F (2.8° to 38.9° C)	5% to 90% Non Condensing	-20 to 120 °F 28.9 to 48.9 °C)	Thermostat: 3-9/19" H x 5-1/4" W x 14/16" D (90 mm H x 133 mm W x 24 mm D) Display size: 4.3 inches
X7S Black Thermostat with Silver accent	US: X7SMC4B Canada: X7SMC4BC				
X7S Black Thermostat, No occupancy sensor	US & Canada: X7BMC2B X7BWF1W				
Wireless indoor temperature, humidity, & motion sensor. Up to 20 per thermostat (Used with X7S only).	XRSENSOR-1PK, XRSENSOR-2PK	*0 to 120 °F (-17.8° to 48.9°C)	5% to 90% Non- Condensing	-20 to 120 °F (-28.9 to 48.9 °C)	2.4" W x 2.4" H x 0.77" D (61 mm W x 61 mm H x 19.6 mm D)
White cover plate. (Optional. Ordered separately)	THP2400WH	—	—	—	4-19/32" H x 6-1/16" W (117 mm x 154 mm)
Black cover plate. (Optional. Ordered separately)	THP2400BL	—	—	—	
C-wire adapter for systems without a dedicated C-wire (Optional. Ordered separately)	THP9045A2098	—	—	—	—

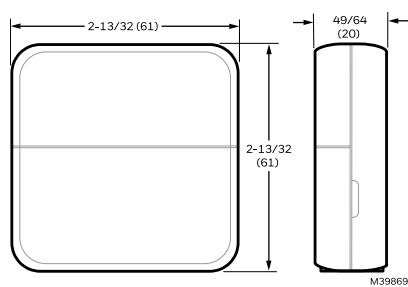
* For optimal battery life, operating temperature range of 35 to 114 °F (1.7 to 45.6 °C) is recommended.

Dimensions

Dimensions of X7S & X7B Smart Thermostat in inches (mm)



Dimensions of XRSENSOR sensors in inches (mm)



Specifications

X7S & X7B Smart Thermostat Description

Feature	Description
Powering Method	Common wire required
Stages: Up to 3H/2C Heat pump Up to 2H/2C conventional	Equipment type: • Hot water or steam. • Gas or oil furnace • High-efficiency or mid-efficiency • Cool only
Changeover	Manual or Auto Changeover Selectable
System Setting	Em Heat-Heat-Off-Cool-Auto
Fan Setting	Auto-On-Circ

Electrical ratings of X7S & X7B Smart Thermostat

Terminal	Voltage (60Hz)	Running Current
W (Heat)	20-30 VAC	0.02-1.0 A
W2 (Aux) Heat	20-30 VAC	0.02-1.0 A
E (Not Used)		
Y (Compressor Stage 1)	20-30 VAC	0.02-1.0 A
Y2 (Compressor Stage 2)	20-30 VAC	0.02-1.0 A
G (Fan)	20-30 VAC	0.02-0.5 A
O/B (Changeover)	20-30 VAC	0.02-0.5 A
L/A (Fault input from heat pump)	20-30 VAC	0.02-0.5 A

Power Consumption: 2.2 VA MAX

Wireless Communication:

Bluetooth: BLE 2.4 GHz

Dual-Band Wi-Fi: 2.4 & 5GHz

Wireless Communication to XRSENSOR Indoor air sensors: 900 MHz (Re-sync time: Wireless sensors re-establish communication within 6 minutes after AC power resumes.)

Radar (X7S only): 61.5 GHZ.

Temperature Setting Range:

Heating: 40 to 90 °F (4.5 to 32 °C).

Cooling: 50 to 99 °F (10 to 37n °C).

NOTE:

Adjustable high and low range-stop settings in Menu-preferences-Temperature Limits.

Humidity Sensor Accuracy:

± 5% RH from 30% to 50% RH at 75 F.

Clock Accuracy:

1 minute per month at 77 °F (25 °C). ± 2 minutes per month over the operating ambient temperature range. Automatically updates when connected to WiFi router and registered to account.

Terminal Designations

Terminals on X7S & X7B Smart Thermostat

Conventional Systems		Heat Pump Systems	
Terminal	Description	Terminal	Description
S/S	Not used by this thermostat.	S/S	No used by this thermostat.
Y	Compressor Stage 1	Y	Compressor Stage 1
Y2	Compressor Stage 2	Y2	Compressor Stage 2
G	Fan Relay	G	Fan Relay
C	24VAC Common wire from secondary side of cooling transformer (if 2 transformers)	C	24VAC Common wire from secondary side of cooling transformer
K*	Connect to K on C-wire adapter Not used by this thermostat	K*	Connect to K on C-wire adapter Not used by this thermostat
U/U	Not used by this thermostat.	U/U	Not used by this thermostat.
L/A	Not used by this thermostat.	L/A	Heat pump fault
W	Heat Stage 1	O/B	Changeover valve for heat pumps
W2	Heat Stage 2	AUX	
		E	E not used by this thermostat. Auxiliary / emergency heat wire should go to AUX.
R	24 VAC Heating transformer	R	24 VAC Heating transformer
Rc	24 VAC Cooling transformer	Rc	24 VAC Cooling transformer

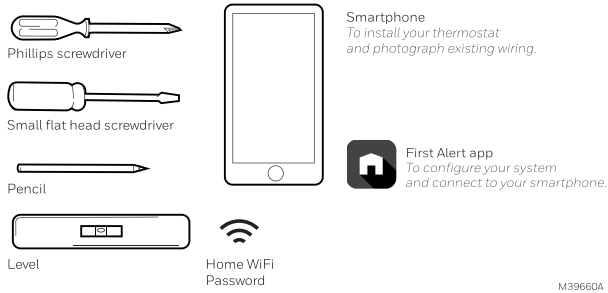
* The THP9045A C-wire adapter is used on heat/cool systems when you only have four wires at the thermostat and you need an extra wire for a common wire. Use the K terminal in place of the Y and G terminals on conventional or heat pump systems to provide control of the fan and the compressor through a single wire the unused wire then becomes the common wire. See [THP9045A instructions](#) for more information.

Getting Started With Installation

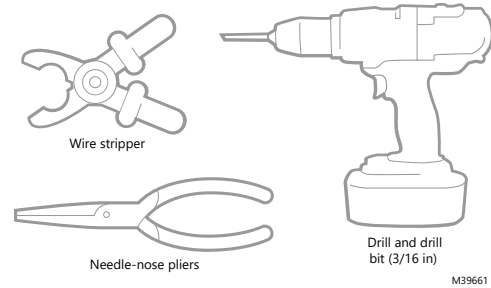
WARNING

IMPROPER WIRING OR CONFIGURING OF YOUR THERMOSTAT CAN CAUSE UNINTENDED OPERATION OF YOUR HVAC SYSTEM WHICH COULD LEAD TO PROPERTY DAMAGE, INJURY, INCLUDING DEATH. IF YOU ARE UNSURE OF WHAT TYPE OF SYSTEM YOU HAVE, REFER TO YOUR HEATING/COOLING SYSTEM EQUIPMENT LITERATURE OR CALL AN HVAC PROFESSIONAL.

Tools Needed for Installation



Tools you will need

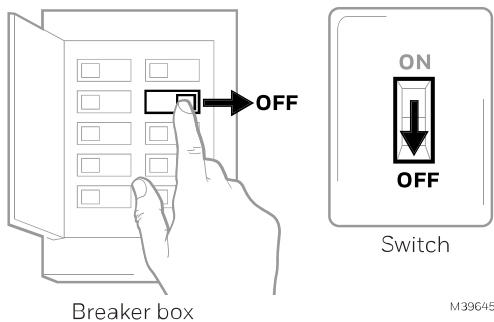


Tools you may need

Removing the 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. Some systems may have separate heating and cooling breakers.

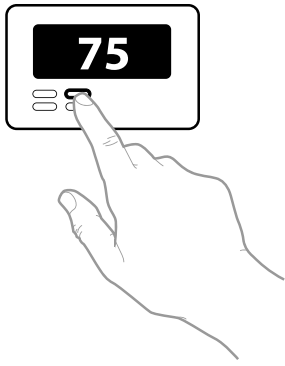


2. Check that your system is off.

Change the temperature on your old thermostat to be above room temperature in heat mode or below it in cool mode. If you don't hear the system turn on within 5 minutes, the power is off.

NOTE:

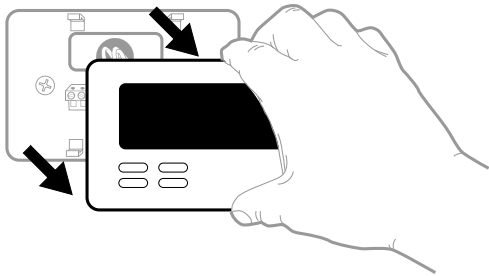
If you have a digital thermostat that has a blank display, skip this step.



3. **Remove the old thermostat's faceplate.**

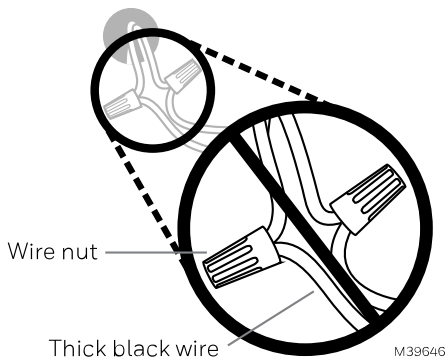
On most thermostats, you can take off the faceplate by grasping and gently pulling. Some thermostats may have screws, buttons, or clasps.

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



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

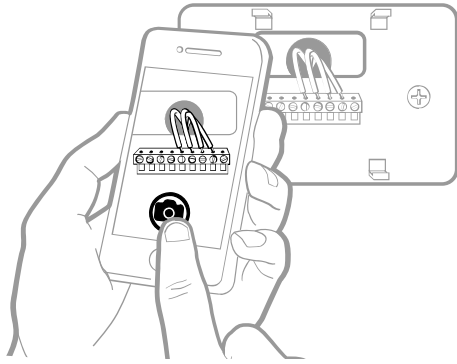
Do you have thick black wires with wire nuts?



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 like 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.



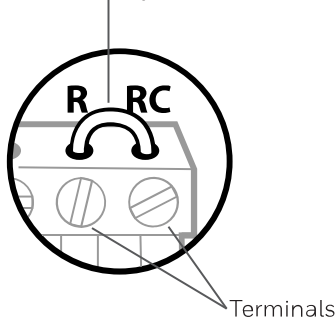
NOTE:

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. Make note of any jumpers

A jumper connects one terminal to another terminal. It may look like a small staple or even a colored wire.

Example of a jumper



M39647

7. Record whether you have wires in the following terminals.

Do not include jumpers as a part of your count. This 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	Terminal	Wire Color
☐ Y	_____	☐ A or L/A	_____
☐ Y2	_____	☐ O/B	_____
☐ G	_____	☐ W2 or AUX	_____
☐ C	_____ required	☐ E*	_____
☐ U	_____ not supported	☐ W	_____
☐ U	_____ not supported	☐ K	_____

*E wire from old thermostat wires to AUX on new thermostat.

M39877A

If there are wires in terminals that are not listed, you will need additional wiring support. See ["Additional wiring help" below](#) for more information.

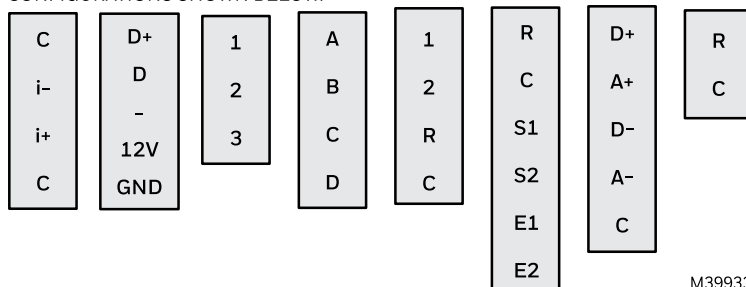
Additional wiring help

There is not a standard color-code for thermostat wiring. That is why it is critical to note where each wire was attached before removing the wire. Taking a photo of the wiring with your phone and using the included wire-labels is important before disconnecting wires from the old thermostat.

In most cases the wires will match the same from the old thermostat to the new. However in some cases they do not. Below can provide some additional wiring assistance.

COMMUNICATING THERMOSTAT WIRING EXAMPLES:

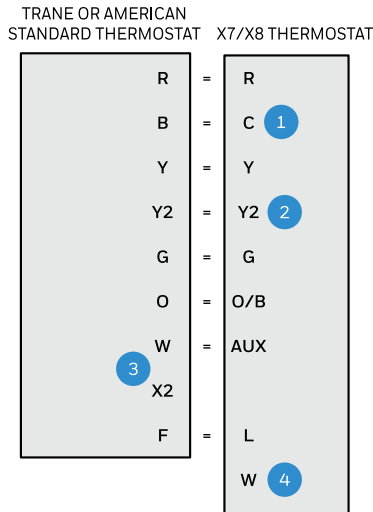
COMMUNICATING THERMOSTAT. THESE THERMOSTATS ARE WIRED TO A MODULE, ZONE PANEL OR HVAC SYSTEM THAT HAS SPECIAL COMMUNICATING PROTOCOL. THE X7/X8 MODELS CANNOT REPLACE THERMOSTATS USING ANY OF THE WIRING CONFIGURATIONS SHOWN BELOW.



M39933

TRANE OR AMERICAN STANDARD HEAT PUMP THERMOSTAT

NOTE: X7/X8 THERMOSTATS CAN BE USED TO CONTROL HEAT PUMP APPLICATIONS THAT USE ELECTRIC BACKUP HEAT. THE X7/X8 SHOULD NOT BE USED TO CONTROL A HEAT PUMP THAT USES A GAS OR OIL FURNACE AS BACKUP HEAT.

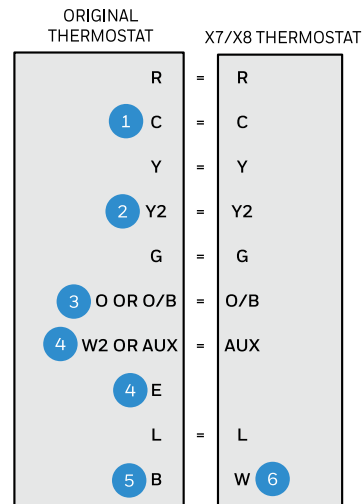


- 1 THE X7/X8 THERMOSTAT REQUIRES A C-WIRE FOR OPERATION. IF THE PREVIOUS THERMOSTAT DIDN'T USE A C-WIRE, SEE THE C-WIRE ADAPTER SECTION.
- 2 Y2 IS USED FOR SOME HEAT PUMP SYSTEMS. THIS INDICATES TWO COMPRESSOR STAGES.
- 3 TYPICALLY TRANE OR AMERICAN STANDARD THERMOSTATS HAVE A WIRE TO EITHER W OR X2 AND THOSE TERMINALS HAVE A WIRE CONNECTING THEM TOGETHER. THAT WIRE SHOULD GO TO AUX ON THE X7/X8. IF W AND X2 HAVE SEPARATE WIRES FROM THE WALL ATTACHED TO THE TRANE/AMERICAN STANDARD THERMOSTAT, THE X7/X8 MAY NOT WORK DEPENDING ON WHAT THOSE WIRES ARE ATTACHED TO BACK AT THE SYSTEM. IN SOME CASES, THEY MAY BE WIRED TO THE SAME TERMINAL THERE. IN THOSE CASES, THE END OF ONE OF THOSE WIRES MAY BE CAPPED OFF AT THE THERMOSTAT AND THE OTHER WIRE GOES TO AUX ON THE X7/X8.
- 4 **X7/X8 THERMOSTAT SHOULD NEVER HAVE WIRES TO BOTH O/B AND W. O/B IS ONLY USED ON HEAT PUMP SYSTEMS AND W IS ONLY USED ON NON- HEAT PUMP SYSTEMS.**

MCR39934

OTHER HEAT PUMP THERMOSTAT WIRING

NOTE: X7/X8 THERMOSTATS CAN BE USED TO CONTROL HEAT PUMP APPLICATIONS THAT USE ELECTRIC BACKUP HEAT. THE X7/X8 SHOULD NOT BE USED TO CONTROL A HEAT PUMP THAT USES A GAS OR OIL FURNACE AS BACKUP HEAT.



- 1 THE X7/X8 THERMOSTAT REQUIRES A C-WIRE FOR OPERATION. IF THE PREVIOUS THERMOSTAT DIDN'T USE A C-WIRE, SEE THE C-WIRE ADAPTER SECTION.
- 2 Y2 IS USED FOR SOME HEAT PUMP SYSTEMS. THIS INDICATES 2 COMPRESSOR STAGES.
- 3 THE HEAT PUMP CHANGEOVER VALVE CAN BE TO O OR O/B OR B DEPENDING ON THE HEAT PUMP MANUFACTURER AND PREVIOUS THERMOSTAT.
- 4 THE AUXILIARY HEAT CAN BE WIRED TO AUX, OR W2, OR E. SOMETIMES THE THERMOSTAT WILL ALSO HAVE A SHORT WIRE GOING FROM W2 TO E OR FROM AUX TO E. THAT WIRE IS NOT NEEDED ON THE X7/X8 THERMOSTAT. IF THERE WAS A WIRE FROM THE WALL TO W2, OR AUX OR E, ATTACH THAT WIRE TO AUX ON THE X7/X8/UWP. IF THERE ARE SEPARATE WIRES FROM THE WALL GOING TO E AND AUX OR W2, THE X7/X8 MAY NOT WORK. A PRO COULD TRACE THOSE WIRES TO SEE IF THEY ARE GOING TO THE SAME TERMINAL AT THE EQUIPMENT. IF YES, THEN TAPE OFF THE END OF ONE OF THOSE WIRES AND ATTACH THE OTHER TO AUX ON X7/X8/UWP.
- 5 B GOES TO O/B ON NEW THERMOSTAT IF YOU HAVE A HEAT PUMP AND THE PREVIOUS THERMOSTAT ISN'T USING O OR O/B. IF THERE ARE SEPARATE WIRES TO O AND B ON THE OLD THERMOSTAT AND YOU HAVE A TRANE OR AMERICAN THERMOSTAT, SEE THE WIRING CROSS FOR TRANE/AMERICAN STANDARD. IF THE OLD THERMOSTAT USES BOTH O AND B AND IT IS NOT TRANE OR AMERICAN STANDARD, IT MAY BE WIRED TO ZONE 1 OF AN OLDER "MASTER/SLAVE" ZONE PANEL. THE X7/X8 WOULD NOT WORK WITH THAT TYPE OF ZONE PANEL.
- 6 **X7/X8 THERMOSTAT SHOULD NEVER HAVE WIRES TO BOTH O/B AND W. O/B IS ONLY USED ON HEAT PUMP SYSTEMS AND W IS ONLY USED ON NON- HEAT PUMP SYSTEMS.**

MCR39935

C-Wire Adapter

Resideo Wi-Fi thermostats requires a C-wire to power the display. If the previous thermostat did not have a wire connected to the C terminal but there is an extra wire in the bundle, that wire can be connected to the C terminal at both the thermostat and the furnace or air handler.

If there is no extra wire available and both the Y and G wires were connected on the previous thermostat, you can use a **THP9045A** C-wire adapter.

NOTE:

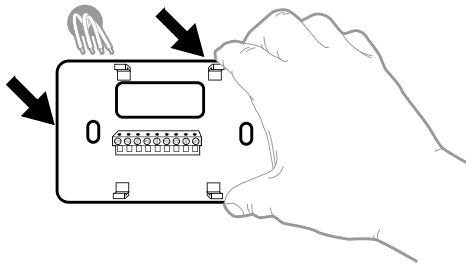
For more information on the **THP9045A** C-wire adapter, go to: [C-WIRE Adapter Installation Guide](#)

9. Disconnect the wires and remove the old wall plate.

Use a screwdriver to release wires from terminals. Then, use a wire label to identify each wire as it's disconnected. The letter on the wire label should match the letter on the terminal.

NOTE:

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

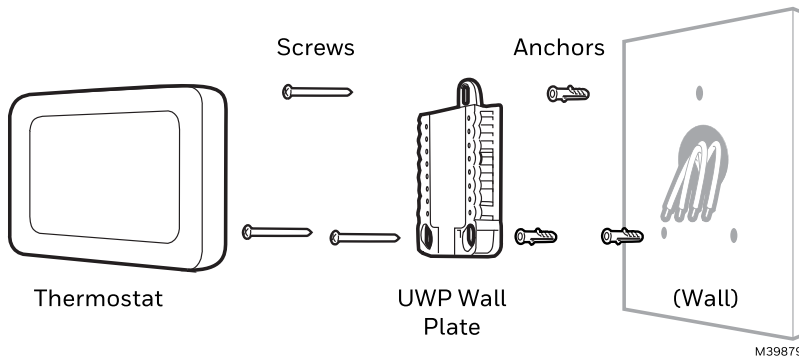


Wiring Labels			Étiquettes de fils			Rótulos para los cables		
Apply these wiring labels to each wire with the appropriate terminal designation as you remove it from the existing thermostat.			Lorsque vous retirez les fils des bornes du thermostat existant, collez ces étiquettes sur chaque fil correspondant à la lettre de la borne.			Coloque estos rótulos, con la designación de las terminales, en cada cable al remover los cables del termostato actual.		
B	B	Y2	Y2	C	C	E	E	F
G	G	H	H	L	L	O	O	P
R	R	RC	RC	RH	RH	T	T	U
VVR	VVR	W	W	W1	W1	W2	W2	W3
X	X	X1	X1	X2	X2	Y	Y	Y1

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M28100B

Installing Your X7S & X7B Smart Thermostat



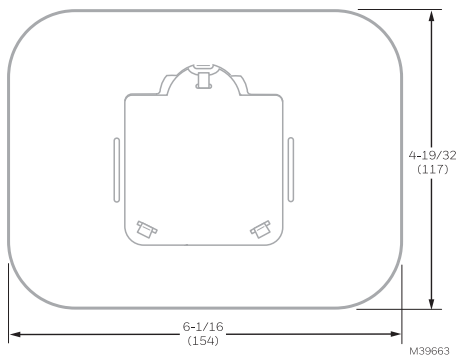
M39879

Hold the thermostat over the part of the wall it will mount to. Verify the thermostat covers any marks left by the previous thermostat. If not, patch and touch-up that area. Alternately, there are optional black or white cover plates available for purchase. If using a cover plate, that will mount to the wall differently than the UWP, so do not drill holes until the cover plate arrives.

Optional Cover Plate

THP2400WH (White cover plate)

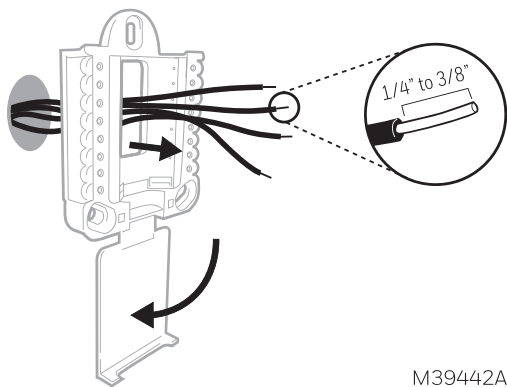
THP2400BL (Black cover plate)



M39663

1. 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** of each wire is exposed for easy insertion into the wire terminals.



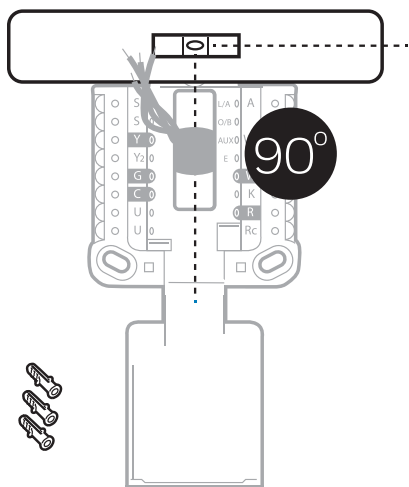
M39442A

2. Insert the wall anchors.

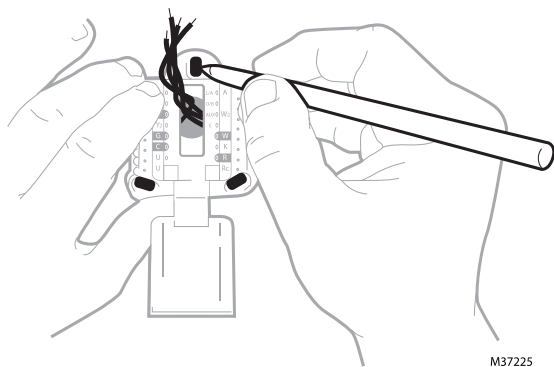
It is recommended that you use the wall anchors included in the box to mount your thermostat.

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

- a. Level the wall plate.



- b. Mark the location of the wall anchors using a pencil.

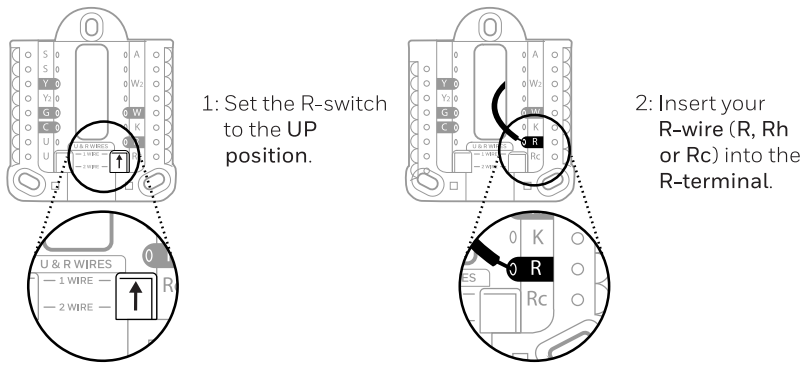


M37225

- c. Using a 3/16" bit, drill the holes.
 - d. Insert wall anchors.
 - e. Make sure anchors are flush with wall.
- ## 3. Set R-switch position and insert R-wire or wires.

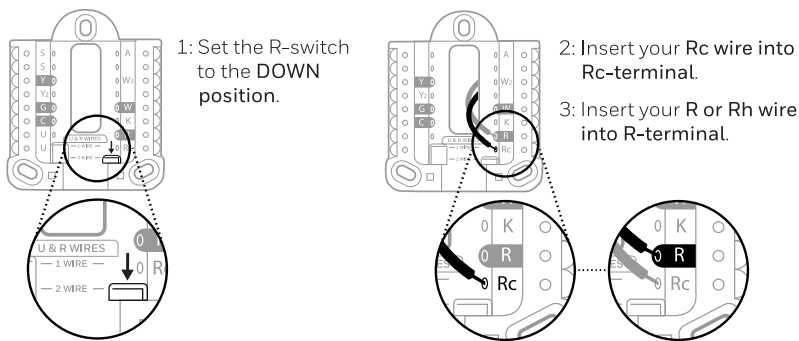
Set the R-switch up or down based on your wiring notes in ["Record whether you have wires in the following terminals." on page 12](#)

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



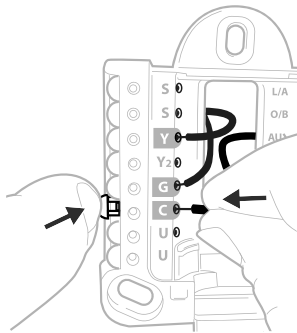
or

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



4. Connect wires to the UWP.

Refer to the notes you recorded on the chart during removal. 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.



This wiring is just an example; yours may vary.

5. Confirm wiring matches snapshot.

Confirm that the wiring matches the terminals in the photo you took during removal.

NOTE:

If **E** was used, that wire should be connected to **AUX** on the UWP.

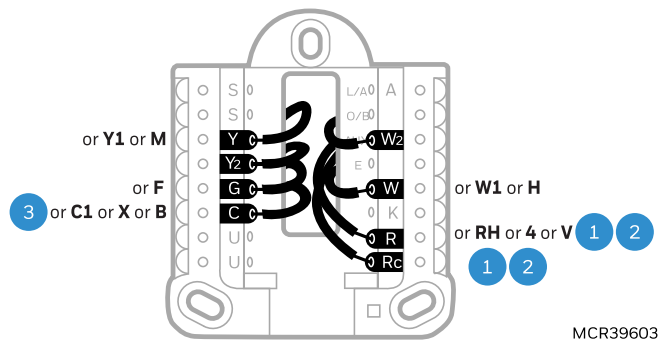
CONVENTIONAL SYSTEMS

Alternate wiring (for conventional systems)

If labels do not match terminals, connect wires as shown below:

Wiring Notes:

1. If you must connect both **R** and **Rc** wires, set the R Slider Tab to the **down** position (2 wires).
2. If your old thermostat had both **R** and **Rh** wires, set the R Slider Tab to the **down** position (2 wires). Then connect the **R** wire to the **Rc** terminal, and the **Rh** wire to the **R** terminal.
3. If your old thermostat had only one **C** or **C1** wire, connect it to the **C** terminal. If your old thermostat had two **C** or **C1** wires, call Honeywell Home support or a qualified contractor for help.



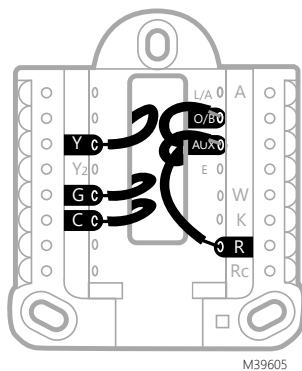
HEAT PUMP

Wiring Notes:

1. Match each labeled wire with same letter on new thermostat.
2. Insert the wires into the matching terminal.

NOTE:

If you have difficulty inserting wires, you may have to press down the terminal push button next to the corresponding terminal. If the labels do not match the letters on the thermostat, see the diagram above.



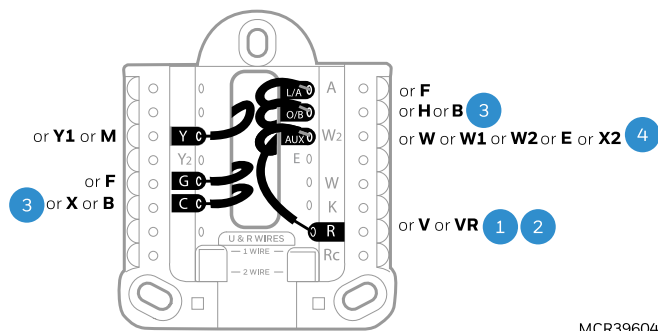
Alternate wiring (for heat pumps only)

Wiring Notes:

1. Keep R Slider Tab in the **up** position (1 wire).
2. If your old thermostat had both **V** and **VR** wires, stop now and contact a qualified contractor for help.
3. If your old thermostat had separate **O** and **B** wires, attach the **B** wire to the **C** terminal. If another wire is attached to the **C** terminal, stop now and contact a qualified contractor for help.
4. If your old thermostat had **Y1**, **W1** and **W2** wires, stop now and call Honeywell Home support or contact a qualified contractor for help.

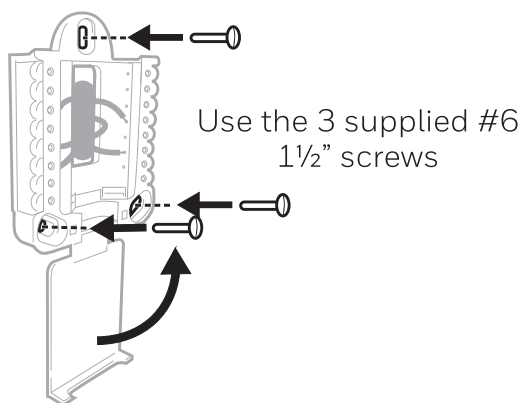
IMPORTANT:

Do NOT use **W** for heat pump applications. Auxiliary heat must wire to **AUX**.



6. Mount the UWP and close the door.

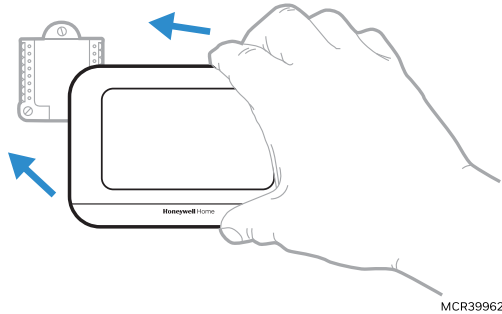
Mount the UWP using the provided screws. Install all three screws for a secure fit on your wall. Close the door after you're finished.



Setup

1. Attach your thermostat.

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



2. Turn your power ON.

The following topics are for setting up on the thermostat. If using the First Alert App for setup, follow the onscreen instructions on your smart device.

New Installation

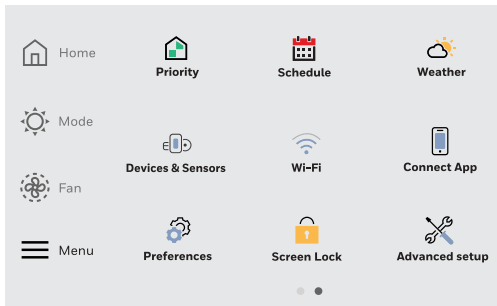
1. After the thermostat has powered up, the display will prompt you to select the language and provide an option to connect wireless sensors. After these settings the display will ask if you want to do the setup using the app or on device (thermostat display).
2. The X7 will ask questions about the type of system you have. If you are unsure of what type of system you have, refer to your heating/cooling system equipment literature or call an HVAC professional.
3. The thermostat or app will exit the setup after any questions have been answered. If you entered the modify configuration menu and made changes after the initial setup, touch **DONE** to save those settings.

Revising Settings (Modify Configurations)

WARNING

IMPROPER CONFIGURING OF YOUR THERMOSTAT CAN CAUSE UNINTENDED OPERATION OF YOUR HVAC SYSTEM WHICH COULD LEAD TO PROPERTY DAMAGE, INJURY, INCLUDING DEATH. IF YOU ARE UNSURE OF WHAT TYPE OF SYSTEM YOU HAVE, REFER TO YOUR HEATING/COOLING SYSTEM EQUIPMENT LITERATURE OR CALL AN HVAC PROFESSIONAL.

1. After the initial setup is done, you can view or change settings by going to MENU-Advanced Settings-Modify configuration. To see a list of all setup parameters in the modify configuration menu, go to [Modify Configuration Options section](#). The thermostat displays the setup name and options. There is a "more information" option available for most of these settings.
2. Touch the Menu icon (in the lower left of display).
3. Select **Advanced Settings**.
4. Select **Modify Configuration**.
5. This will allow you to view or change the settings. After selecting the correct option for each setting, touch **NEXT** at the bottom of the display to advance to the next option.
6. To see a list of all setup parameters, go to [Modify Configuration Options](#).
7. To save your settings and exit the Modify Configuration menu, touch **DONE** at the bottom of display.



MCR39958A

Modify Configuration Options

ISU #	Heading	Question	Options	Contingent previous setting?	Notes
1000	Language	What language would you like to use?	- English - Francais - Español		ISU number not displayed during initial setup
1050	Temperature Format	Which temperature scale would you like to use?	- Fahrenheit - Celsius		

ISU #	Heading	Question	Options	Contingent previous setting?	Notes
2000	System Type	System Type	• Conventional Forced Air Heat • Heat Pump • Radiant Heat • None (Cool only)		IMPORTANT: It is important that this is set correctly. If you are unsure about what type of system you have contact an HVAC professional to assist.
2010	Equipment type	Equipment type	• Standard Efficiency Gas Forced Air • High Efficiency Gas Forced Air • Oil Forced Air • Electric Forced Air • Hot Water Fan Coil	2000 = Conventional Forced Air Heat	This setting not shown for Heat Pump Applications.
		Equipment type	• Hot water radiant heat • Steam	2000 set to Radiant Heat	This setting not shown for Heat Pump Applications.
2060	Reversing Valve	Reversing Valve	• O (O/B on Cool) or • B (O/B on Heat)	2000 set to Heat Pump	IMPORTANT: System setup is critical. If you are unsure of this setting, trace the O/B wire from thermostat to the equipment to verify the configuration. If you are still uncertain, contact an HVAC professional to assist. O/B wire goes to: • O at heat pump, ISU 2060 needs to be set to O (O/B on cool). • B at heat pump, ISU 2060 needs to be set to B (O/B on heat).

ISU #	Heading	Question	Options	Contingent previous setting?	Notes
2070	Equipment stages	Cool stages	0-2 stages	2000 set to other than Heat Pump	
		Heat stages	1-2		Use for conventional heating systems such as a gas forced air furnace.
		Compressor Stages	1 2	2000 set to Heat Pump	
		Backup Heat Stages	0 1	2000 set to Heat Pump	
2180	Backup Heat	Backup Heat Type	- Electric Heat Strips - Gas or Oil Furnace - Hot Water Fan Coil - Hot Water Radiant Heat - Other - I'm not sure	2000 set to Heat Pump and 2070 Backup Heat Stages set to 1.	The thermostat or app will display different options for this but only supports electric backup. If any other backup heat source is selected it will warn that the thermostat is not compatible and recommend the homeowner contact an HVAC pro to get a compatible model.
3000	Changeover	Changeover	- Manual - Automatic	Any system with at least 1 Heat stage and 1 Cool stage	See Auto Changeover Operation for Details.

ISU #	Heading	Question	Options	Contingent previous setting?	Notes
3260	Temperature Control	Extended fan run time in cool	• Off • 30 seconds • 60 seconds • 90 seconds • 2 minutes • 3 minutes • 4 minutes • 5 minutes • 6 minutes • 7 minutes	At least 1 cool stage	
		Extended fan run time in heat	• 8 minutes • 9 minutes • 10 minutes • 11 minutes • 12 minutes • 13 minutes • 14 minutes • 15 minutes	At least 1 heat stage	
4090	Temperature Control	Adaptive Intelligent Recovery	• No • Yes		When scheduling is used, this feature turns on heat or cooling early to reach the comfort set point by the scheduled comfort time
4100	Temperature Limits	Temperature range stops	Minimum cool setpoint; 50F-99F (10C-37C)	At least 1 stage of cool	There is a correlation between these settings. For example, if minimum cool is set to 50F, minimum heat cannot be set above 40F
			Maximum cool setpoint; 90F-99F (32C-37C)	At least 1 stage of cool	
			Minimum heat setpoint; 40F-50F (4.5C-10C)	At least 1 stage of Heat	
			Maximum heat setpoint; 40F-90F (4.5 - 32.0C)	At least 1 stage of Heat	

ISU #	Heading	Question	Options	Contingent previous setting?	Notes
4110	Keypad Lockout	Keypad Lockout	Unlocked, Partially Locked, Fully Locked		
7000	Filtration	Filter type	• None • Media		
7110	Filtration	Replacement reminders	Air Filter 1 settings: • Off • 10 Run time days • 20 Run time days • 30 Run time days • 45 Run time days • 60 Run time days • 90 Run time days • 120 Run time days • 150 Run time days • 30 Calendar days • 45 Calendar days • 60 Calendar days • 75 Calendar days • 3 Calendar months • 4 Calendar months • 5 Calendar months • 6 Calendar months • 9 Calendar months • 12 Calendar months • 15 Calendar months	7000 = Media	
8100	Humidification	Humidifier Pad replacement reminder	• Off • 6 or 12 calendar months		

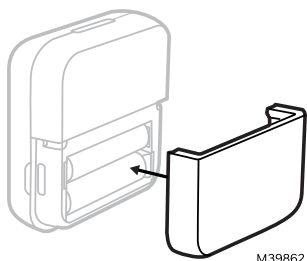
ISU #	Heading	Question	Options	Contingent previous setting?	Notes
9210	Dehumidification	Dehumidifier Filter replacement reminder	• Off • 30 Calendar Days • 60 Calendar Days • 3 Calendar Months • 4 Calendar Months • 5 Calendar Months • 6 Calendar Months • 7 Calendar Months • 8 Calendar Months • 9 Calendar Months • 10 Calendar Months • 11 Calendar Months • 12 Calendar Months		
11000	UV Devices	Number of UV Devices	0, 1, 2		
11050	UV Devices	UV Bulb Replacement Reminders	Replace UV Bulb 1 = Off, 6, 12, 24 calendar months	11000 = 1 or 2	
			Replace UV Bulb 2 = Off, 6, 12, 24 calendar months	11000 = 2	
14010	Clock Format	Clock Format	• 12 hour clock • 24 hour clock		
14015	Daylight Savings Time	Daylight Savings Time	• Off • On		
14020	Display Offsets	Indoor Display Offsets	Indoor Temperature: (-3 to 3) in 1F increment (-1.5 to 1.5) in 0.5C increment.		The display offset is applied to the Home screen, not the Priority screen. This offset is not associated with any individual sensor.
			Indoor Humidity: -12% to 12% RH		

Sensor Installation (X7S models only)

Wireless Indoor Sensor Installation

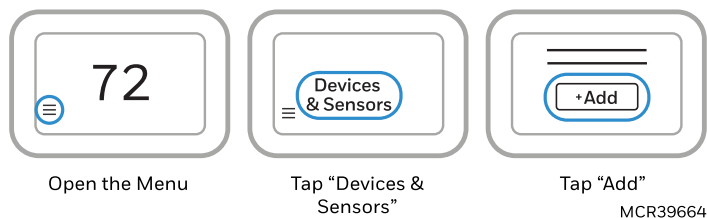
XRSENSOR Wireless Indoor Sensor

1. Remove cover from base and Insert (2) AAA Alkaline batteries in the sensor.



2. At the thermostat, select **Menu**.
3. Tap **Devices & Sensors**.
4. Tap **Add**.

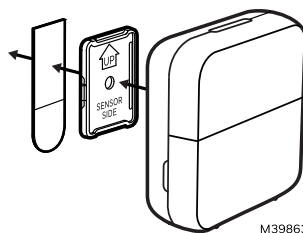
Follow the on-screen instructions.



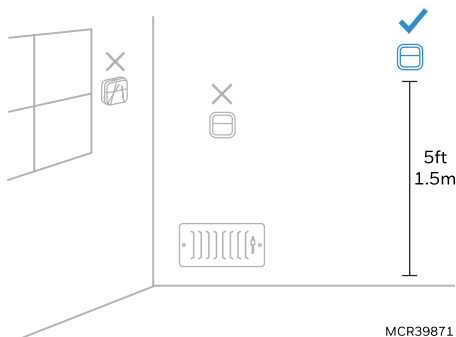
5. Snap the sensor onto the wall-plate.
6. Adhere the included command strip to the wall-plate. Then adhere the sensor to the wall. Level sensor for appearance.

Placement Tips

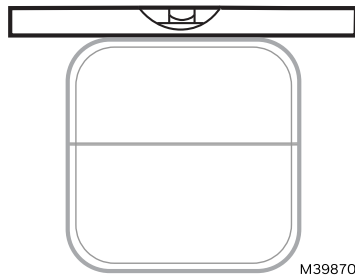
- DO place about 5 feet above the floor.
- DO place on inside walls.
- DON'T place behind furniture or doors.
- DON'T place in direct sunlight.
- DON'T place above air vents.



Placing the indoor sensor



Leveling the indoor sensor



Advanced Setup Options

NOTE:

The Advanced Setup menu is only available after the initial setup has been completed.

Advanced setup is available if you'd like to customize how your thermostat works.

Most settings are automatically set to commonly preferred options during installation, so there's usually no need to make changes. However, if you want to adjust how your system behaves, you can do so in the Advanced Setup menu.

To access the Advanced Setup menu:

1. Touch the **Menu** icon on the bottom left of display
2. Select **Advanced setup**.

Advanced Setup Menu

Modify Configuration

Change system settings. See ["Revising Settings \(Modify Configurations\)" on page 20](#).

Equipment Test

While running equipment in test mode a timer indicates the run time during the test. Equipment automatically shuts off after 30 minutes if the installer does not end a test before that time.

- **Heat:** Select Heat stage(s) to test
- **Em heat:** Test Emergency Heat. (For heat pumps with backup heat only)
- **Cool:** Select Cool stage(s) to test
- **Fan:** Turn fan on or off.

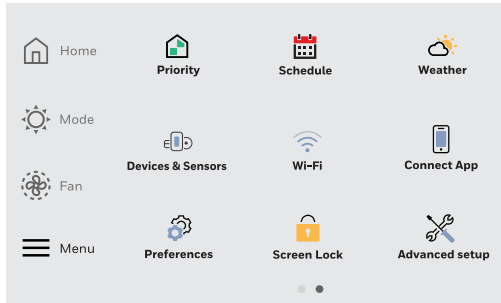
Reset

- Reset Schedule
- Delete all Devices (removes wireless sensors)
- Reset Matter
- Reset WiFi (removes thermostat from network)
- Factory Reset (this returns the thermostat to the state it was in prior to installation)

WiFi Setup and Troubleshooting

During the initial installation, after the Installer setup, the thermostat will prompt you to set up WiFi and guide you through the steps. If you are setting up WiFi after the initial installation has already been done, follow the steps below:

1. Download the First Alert App. Create an account if you do not already have one.
2. On the thermostat, touch the **Menu** icon in the lower-left corner of the display.



3. Then select **Connect App**.
4. On the app, touch the plus icon to add a thermostat to your First Alert account and follow the instructions.

Changing the Wi-Fi network or removing the thermostat from a network:

1. Select the **Main Menu** icon, then select **WiFi**.
2. There is a slider labeled “Enable **WiFi**”. Make sure this is set to the right.
3. Touch **Choose Network**.
4. After a brief delay, the thermostat should show the available networks. Choose your home network from the list.
5. If this is a secure network, it should prompt you to “Enter WiFi password”. After a brief delay the display should show “Success! Your thermostat successfully connected to the network.” Touch the **OK** button.

NOTE:

If you did not successfully connect to the network:

1. Download the First Alert App from the App store or Google Play.
2. Create an account if you do not already have one. The choose "Add Device" and follow the app instructions to add the thermostat to your account.

Connect to a Hidden WiFi Network

1. Touch **MENU**, then **WiFi**.
2. Touch **Other**.
3. Enter the network name.
4. Select the appropriate network security setting, then touch Select.
5. Enter the WiFi network password.

Unsuccessful WiFi Connection

If you are unsuccessful in connecting the thermostat to the WiFi network, you will see a Connection Failed screen. Here are three specific reasons the connection might be unsuccessful.

Invalid Password

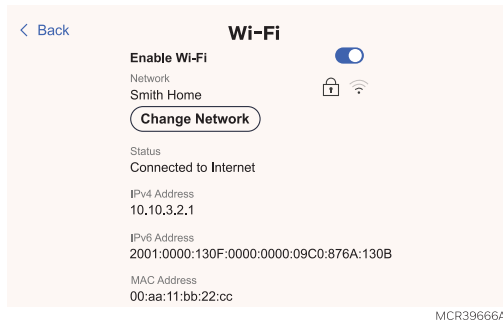
The password you entered is invalid. Check that you have the right password and try again.

No IP Address

The thermostat was unable to obtain an IP address from the router. Verify the router is correctly set up to automatically assign IP addresses. This connection can take several minutes. If there is still no connection, remove the thermostat from the wall plate for 10 seconds, then snap it back into place.

No Internet Link

The thermostat connected to the WiFi network but was unable to establish a connection to the internet. Check the router settings and try again. Make sure the Ethernet cable is plugged into the router and try rebooting the router if necessary.



WiFi and App FAQs & Troubleshooting:

Q: Will the thermostat still work if the WiFi connection is lost?

A: Yes, you can still manually adjust the temperature at the thermostat. However, some features such as location-based temperature control (Auto-Away using geofencing technology) can only be managed through the First Alert App and will not function without a WiFi connection. The thermostat will automatically reconnect to WiFi once the network is restored.

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

A: The range (distance) of your WiFi signal is determined by your router. Try moving your router closer to the location of the thermostat, or use a router with a stronger signal range.

Q: There's an alert that says "WiFi signal lost" - what should I do?

A: Cycle power to the thermostat. This can be done with the switch on the side of the furnace, at the furnace breaker or by removing the thermostat from wall plate and then reattaching after 10 seconds or more. Wait 5 minutes for the thermostat to reconnect or select an alternate network (if you have one) in the First Alert App configuration menu. If the thermostat isn't able to reconnect, you'll need to troubleshoot the router to determine the cause.

Q: The thermostat or app is showing "Datasync". What should I do?

A: Remove the thermostat from wall plate, wait 30 seconds, then reattach it. If the issue persists, unregister and re-register the thermostat by deleting the thermostat from the app, then tap **Add new device** to reconnect it. In the unlikely event that this doesn't resolve the issue, connect the thermostat to a hotspot or alternate network for 24 hours, then perform a WiFi reset and reconnect it to your home network.

First Alert account and app questions

Q: Why haven't I received an account activation email?

A: If you haven't received an activation email within 5 minutes, check your Spam folder for a message from customer-service@resideo.com. If you don't see it, tap **Resend** to have the activation email sent again. If you still don't receive it, please contact the Technical Support team at 1-800-633-3991.

Q: Can I set up my thermostat with multiple users?

A: Yes. To add users, log into the First Alert App and tap the menu icon in the upper left corner. Select **Users**, tap **Invite Users** and type in the email addresses of the people you'd like to invite. If they already have a First Alert account set up, the thermostat and its location will automatically be added to their account. If they don't have an account, they'll receive an email prompting them to download the First Alert App and create a new account.

Q: Can I set up location-based temperature control with multiple users?

A: Yes. Location-based temperature control (Auto-Away / geofence technology) will activate based on the last person who leaves and the first person to return. Each user will need to create their own First Alert account with a login ID and password. Two users should not share the same account. Each user will then need to enable location-based temperature control.

Q: Why doesn't a change I made in the app show up on the thermostat?

A: There may be a short delay when you make temperature and settings changes in the First Alert App. Wait a few minutes, and if you still don't see your changes on the thermostat, make sure the thermostat is still connected to WiFi and restart your First Alert App.

Main Menu

From Home Screen, touch the **Menu** at bottom left of the display. (If this is not shown at home screen, touch screen to wake display first).

Main Menu Options

WiFi

See ["WiFi Setup and Troubleshooting" on page 29](#) for more information

Schedule

- Create new schedule – (Set a time-based schedule).
- Turn Off Schedule.

NOTE:

To enable Auto-Away / Geofencing, use the First Alert App.

See ["Scheduling and Auto-Away" on page 39](#) for more information.

Connect App

See ["Using the First Alert App" on page 50](#) for more information.

Screen Lock

See ["Screen Lock setting" on page 51](#) for more information.

Preferences

Preference menu options let you select how the thermostat displays information or responds to certain situations.

To access the Preferences menu:

- Touch **Menu**.
- Scroll to and select **Preferences**.
- Select an option and follow prompts.
- After any changes, touch **Save** to save your settings.

Preferences Options

- Date & Time
- Display
- Reminder settings
- Adaptive Recovery
- Fallback Room (if wireless sensors are used)
- Temperature Limits
- Freeze Protection

Display Settings

- Idle Screen (See ["Idle Screen" on page 46](#))
 - Choose Idle Screen color and Style

- Idle Screen Behavior (Option not shown for X7B)
 - Transition on detection
 - Transition on Tap
- Temperature Units
 - Fahrenheit
 - Celsius
- Language
 - English
 - Français
 - Español
- Feels Like Temperature (Takes humidity in account to optimize comfort. See ["Feels like Temperature" on page 52](#))
 - On
 - Off
- App Change Behavior (Light up when temperature change is made by app)
 - On
 - Off
- Indoor Display Offsets
 - Temperature -3°F to 3°F or -1.5°C to 1.5°C
 - Humidity 12% RH to 12% RH
- Clean Screen
 - Timer where display will not change settings when being cleaned.

Reminder Settings (Settings shown vary based on Setup settings)

- Air Filter 1
- Humidifier Tank/Water Filter
- Humidifier Pad
- Dehumidifier Filter
- UV Bulb 1
- UV Bulb 2

Adaptive Recovery

- On
- Off

Fallback room

- Thermostat
- The name of each wireless sensor used is shown below thermostat

Devices and Sensors (X7B doesn't have this setting)

- Add a wireless sensor. (X7S only)
- Identify a wireless sensor.
- Thermostat:
 - Model
 - Temperature & humidity readings
 - Motion detected status (not shown for X7B)
 - WiFi network
 - MAC ID
 - IPV54 address
 - Change room name
- Indoor Air Sensor:
 - Firmware version
 - Battery strength
 - Wireless signal strength
 - Temperature and Humidity readings
 - Options:
 - Rename sensor (select Room name).
 - Use motion (Allows you to choose not to allow motion to be used from a one or more sensors when “active rooms” is selected in the priority menu.
 - Motion Sensitivity (HIGH = Triggered when very little motion is detected, MEDIUM = triggered when a moderate amount of motion is detected, LOW = triggered only when a lot of motion is detected).
 - Delete (Removes that sensor from the thermostat).
 - Blink lights (Will make the light on the indoor sensor you selected blink to help identify which sensor is matched with each name in the sensor menu.)

Thermostat Information

- MAC Address
- IP Address
- Date Code
- Firmware Version
- Model Number
- Build Date

Equipment Status

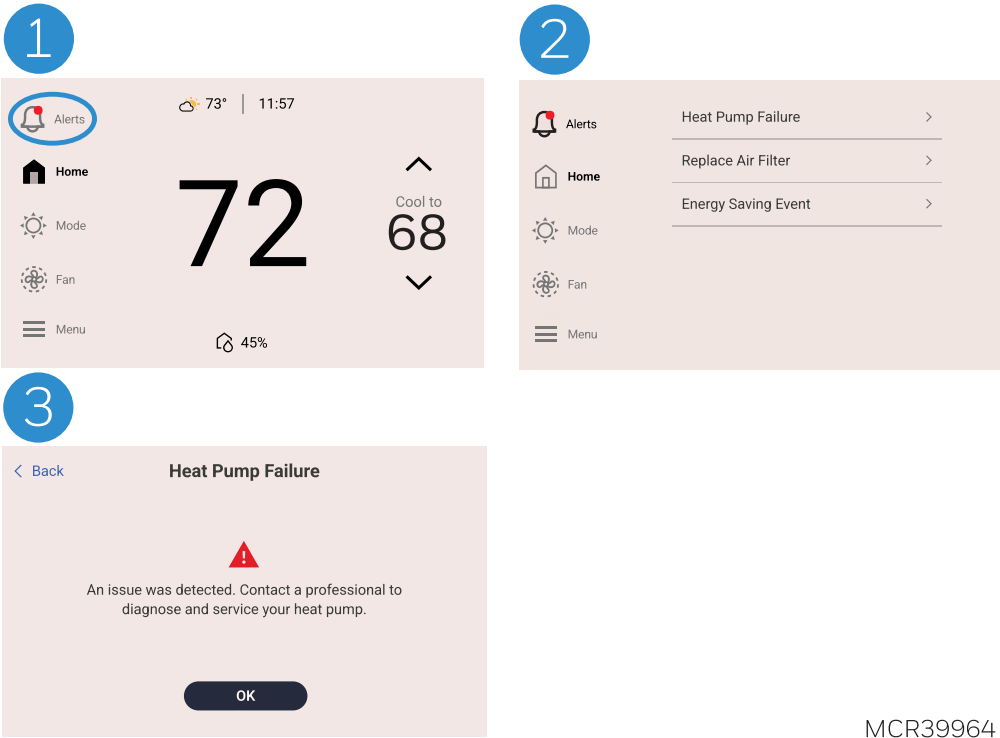
- System mode
- Heat stages (on or off)
- Cool stages (on or off)
- Fan on or off

Matter

See "[Matter Setup](#)" on page 5 for more information

Notifications

Only displayed when there are active alerts/notifications. Touch **Alerts** to see details. (See "Alerts and Reminders" on page 37)



MCR39964

Priority

If wireless indoor temperature/humidity/motion sensors are used, select which sensors are used for temperature control. Choose **ACTIVE ROOMS** (Rooms with sensors detecting motion) or **SELECTED ROOMS** (Manually select which sensors to use).

See "Using Priority" on page 45 for more information.



Set Time and Date

NOTE:

If Wi-Fi is connected, the thermostat will automatically set the time and date using internet sync. Manual adjustments will not be available while connected.

To check or adjust time and date settings:

1. Touch **MENU** on the thermostat.
2. Select **Preferences > Date & Time**.

If Wi-Fi is not enabled, you will be able to set the time and date manually.

System Mode and Fan Settings

Setting the System Mode

- Touch **Mode**.
- Touch desired option.
 - **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 emergency heat. Compressor is locked out.

NOTE:

Mode settings may vary, depending on how your system type and installer settings.

Setting the Fan

NOTE:

Fan setting not available for all system types.

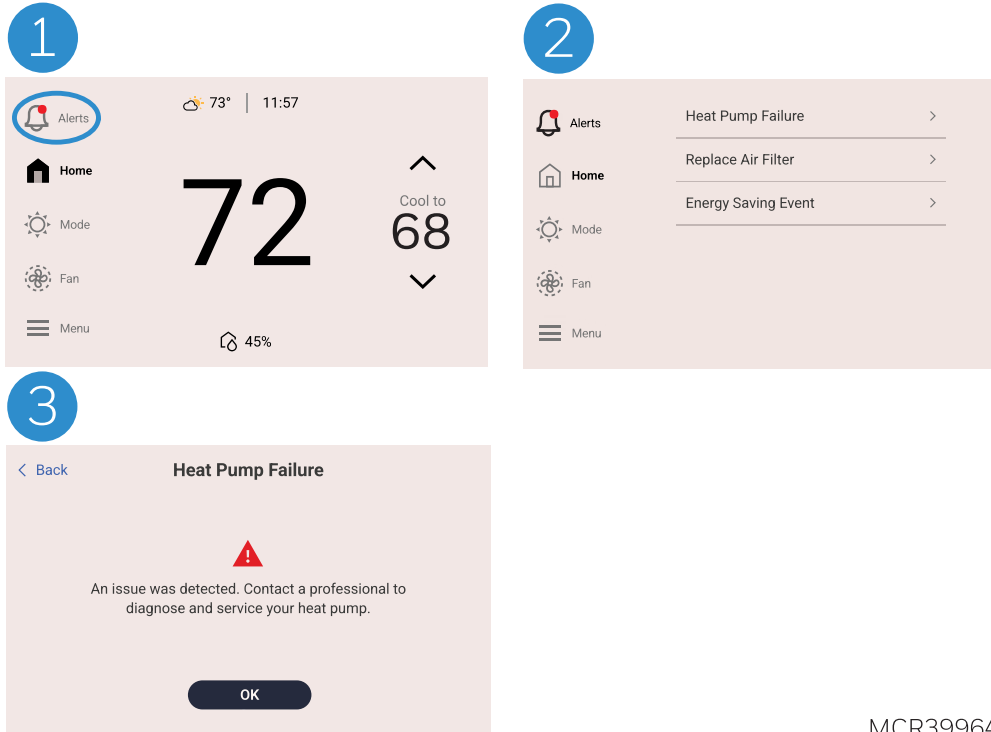
- Touch **Fan**.
- Choose **On**, **Auto**, or **Circulate**:
 - **Auto** setting only runs the fan with the heating or cooling system.
 - **On** setting runs the fan continuously.
 - **Circ** setting runs the fan approx 33% of the time to ensure air circulation.

Programming the Fan

You can set the fan to On, Auto, or Circ for each program when using time-based scheduling.

Alerts and Reminders

1. The Alerts icon will appear in the upper left of the active home screen when there is an active alert or notification. Touch the **ALERTS** icon to view active Alerts & Reminders.
2. Touch the alert or reminder heading to see more information about the alert.
3. Acknowledge the alert or reminder. Reminders will allow you to reset the timer. Less critical Alerts and notifications may allow options to snooze or dismiss.



MCR39964

IAQ Reminders

You can set up IAQ reminders in the thermostat to remind users when filters, pads, bulbs, etc. need cleaning or replacement.

- Air Filter 1
- Humidifier Pad
- Dehumidifier Filter
- UV Bulb 1
- UV Bulb 2

NOTE:

Reminders are displayed under **Preferences > Reminder Settings**

To access or adjust the reminder settings

- Select the **Menu** icon.
- Scroll to and select **Preferences > Reminder Settings**.
- Select the reminder you want to set from the list (shown above).
- Touch ▲ or ▼ to set timer length. Ranges, increments and units will change based on the reminder.

- Touch **Save** to save the reminder.
- Touch **Reset Timer** when you have completed the recommended maintenance or you can extend the timer setting to turn off the alert and remind you later to do the recommended maintenance.
- Repeat these steps for all reminders you want to set

NOTE:

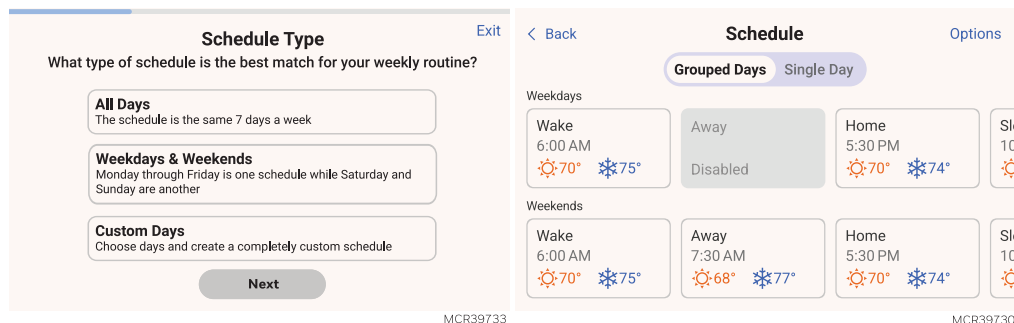
When set for run time days, the thermostat tracks the amount of time the fan has run and compares that time against the number of run time days selected. Fan run time is counted when there is a call for forced air heating, cooling, or fan.

Scheduling and Auto-Away

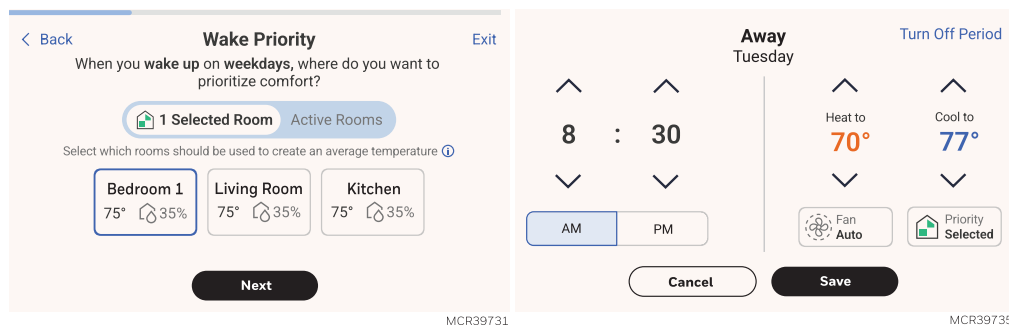
Setting a Schedule On the Thermostat

Touch the **Menu** icon at the bottom of the home screen display. Then touch **Schedule**.

- The schedule menu lets you group days or set days individually.
- After choosing the schedule type, Touch the period you wish to edit (Wake, Away, Home or Sleep)



- Touch **Time** to edit the time for that schedule period.
- Touch **Priority** to select which sensors will be used for that period. (X7B does not have this setting)
- Touch **Temperature** to set the Heat and Cool setpoints for that period.
- Touch **Fan** to select Fan On, Auto, or Circulate for that period

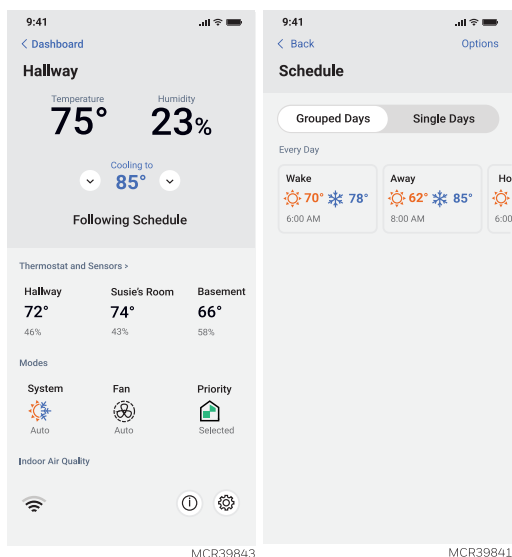


Scheduling Through the App and Auto-Away (App images are subject to change)

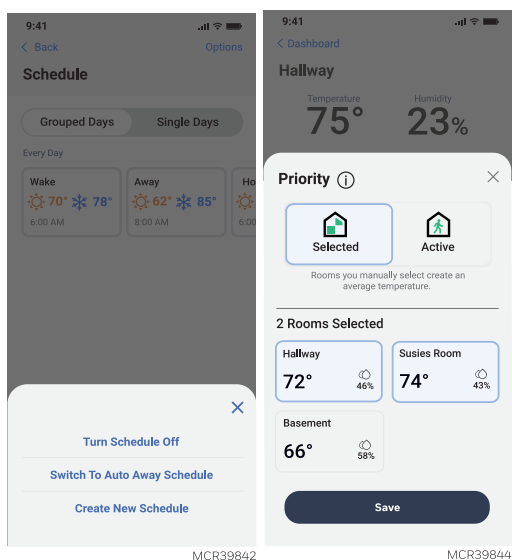
Flexible scheduling: You can choose to use location-based temperature control (Auto-Away / geofence technology), time-based scheduling, or use a combination of both to make sure your home is always comfortable.

- **Location-based temperature control:** Using Auto-Away/Geofencing technology, the thermostat will automatically use your smartphone's location, which can save energy when you leave and make your home comfortable by the time you return.
- **Smart scheduling:** Adds a Sleep period to location-based temperature control.
- **Time-based scheduling:** You can program a schedule where every day is different, a schedule where weekdays and weekends are different, or a schedule where every day is the same. There are four adjustable periods per day: Wake, Away, Home, and Sleep.
- **No schedule:** You can also choose not to set a schedule and adjust the thermostat manually.
- **Sensor Priority:** Select which sensors are used for each program period or when used manually. (X7B does not have this setting)

1. In the First Alert App, select the thermostat you wish to schedule. Touch the **Calendar** icon in the lower right of the display.
2. Select **Grouped Days** for all days the same or **Single day** if you want some days to be scheduled different than others.



3. Select **Options** to turn schedule off, create a new time-based schedule, or switch to Auto-Away/Geofencing.
4. Set priority sensor(s) for each program (X7B does not have this setting):



Location-Based Scheduling

When location-based temperature control is used, the thermostat active home screen display will show **Using Home settings**, **Using Away settings**, or **Using Sleep settings** below the room temperature.

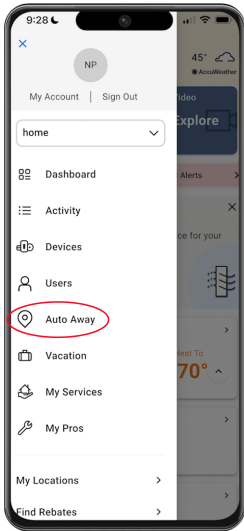
If you manually change the temperature when location-based temperature control is active, the new temperature will remain in effect until you cross the geofence.

NOTE:

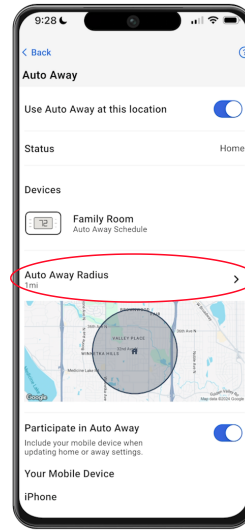
To utilize Auto-Away (Geofencing), set the schedule through the app.

Auto-Away Scheduling

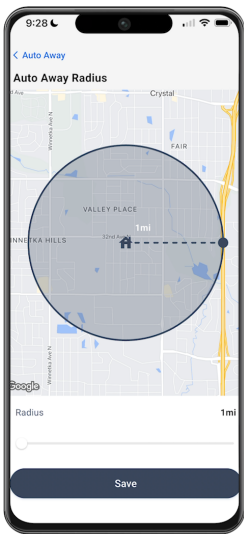
1. Select Auto Away.



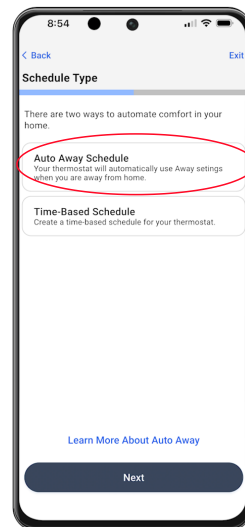
2. Set Auto Away Radius.



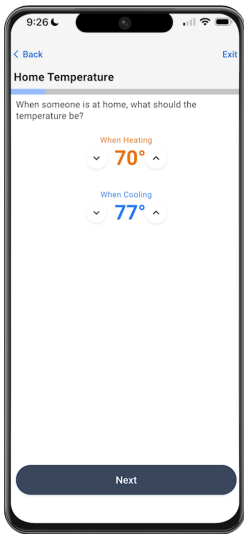
3. Drag edge of radius to expand.
This determines how far away from the home all occupants phones should be to trigger away settings.



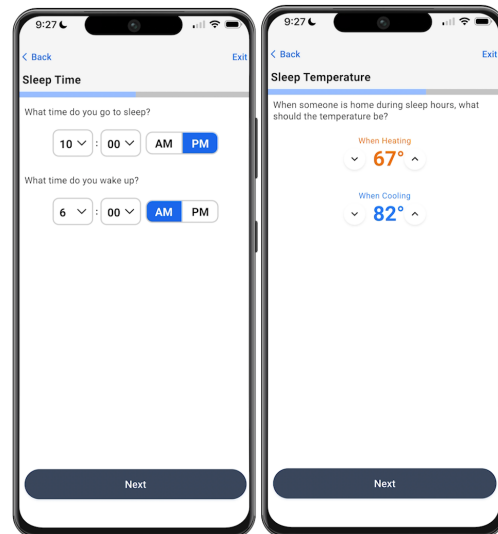
4. Set Auto Away Schedule.



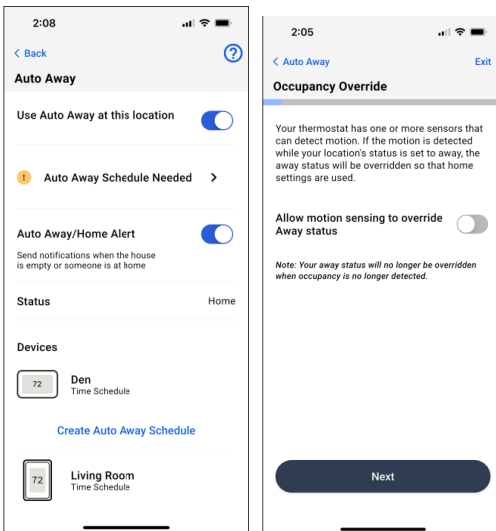
5. Set Home and Away Settings.



6. Set the Sleep Period Time and Temperatures.



When the thermostat is set for auto away, the user can enable motion sensing to override the away status for thermostats that have an onboard radar sensor and/or are used with wireless indoor sensors. See below.



Schedule Override on Device

With thermostat in **Heat**, **Cool**, **Auto**, or **Em Heat** mode, touch the up or down arrow to change the set-point. If thermostat is in **Auto** mode, select either the **Heat** or **Cool** set-point you wish to adjust.

If scheduling is enabled, you'll see **Hold until [time]** at the bottom of the screen — touch this option.

The display will show: *"Use current temperature, fan, and comfort priority settings until..."*

Options are:

- Next Period
- A Specific Time
- Permanently
- Remove hold

Choose the appropriate option. If you chose **A Specific time**, select the time you want to hold to.

Touch **Save** to return to Home screen.

Hold Options

Use current temperature, fan and priority setting until:

MCR39713

Home
 Mode
 Fan
 Menu

73° | 11:57
 Rec Room

72

Hold Until 9:15 PM

Heat to 68

MCR39787A

Override Options

Use current temperature, fan and priority settings until:

^

9

v

^

:

v

15

AM

PM

MCR39712

Vacation Hold

Set a vacation hold time on the First Alert app and the home thermostat(s) will save you money while on vacation.

10:18

SL

My Account | Sign Out

Home

Dashboard

Activity

Devices

Users

Auto Away

Vacation

My Services

My Pros

My Locations

10:30

Home

☒ Use Vacation
 Use when you will be away from your home for an extended period of time.

I will be on vacation

From Fri, Jun 6, 2025 10:45 AM
 To Fri, Jun 13, 2025 10:45 AM

Review Device Settings
 Family Room
 Cool to 65°, Heat to 55°

10:19

Vacation Duration

Date Range
 Start Date 6/14/2025
 End Date 6/20/2025

June 2025
 Sun 1 Mon 2 Tue 3 Wed 4 Thu 5 Fri 6 Sat 7
 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5

Time Range
 Start Time 10 : 30 AM PM
 End Time 4 : 30 AM PM

Save

11:25

Vacation

Family Room

☒ Include in Vacation
 Set target temperatures for your thermostat while on vacation

When I'm on vacation, this device should

Heat to 55°
 Cool to 80°
 Fan Auto
 Priority Selected Rooms

Fan Scheduling

If scheduling is used, there is a fan setting associated with each schedule period.

Example: the Sleep schedule period may be set to fan auto. If you change the fan setting from the home screen during an earlier period, the setting will go back to auto at the sleep schedule period.

If you want to change the fan setting and have the new setting be permanent, then make the change to the fan setting in the schedule settings for each period rather than from the home screen.

Getting the Most from the X7S & X7B Smart Thermostats

Multiple programming options that fit your lifestyle:



1. **Location-Based scheduling (Auto Away)**– 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 First Alert 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.



Smart Alerts. Push notifications remind you of filter changes and warn you of extreme indoor temperatures.



Adaptive Recovery. 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.

Highlights

Wireless indoor sensors

Use wireless indoor sensors with X7S thermostats. Sensors detect temperature, humidity, and PIR. Up to 20 sensors with a 200 foot range.

Prioritize rooms when using wireless indoor sensors (X7S models)

Prioritize a specific room or multiple rooms, or let comfort follow your move using built-in motion detection.

Control on the Go

Adjust your thermostat from anywhere using your tablet or smart phone.

Save Energy

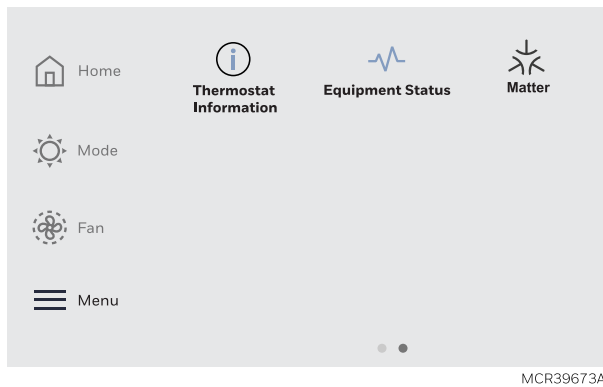
With Auto Away, you can save money on the most expensive part of your energy bill while you’re away.

Know Your Home Is Safe

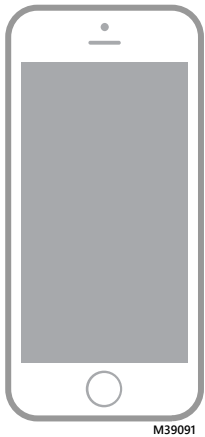
Get customizable alerts on your mobile device when the basement is so cold a pipe could burst, or if the baby’s room is getting too hot.

Matter Setup

1. Touch **Menu** icon at the bottom left of the home screen.
2. Scroll to and select **Matter**.



3. Use the smart phone connect to Matter enabled devices by scanning the QR code shown on your thermostat.
4. Follow the instructions on your phone.



Using Priority

When wireless indoor sensors are used, the Priority setting creates an average temperature in your home based on specific rooms. This allows you to prioritize comfort where you want it. To access Priority, touch **Menu** > **Priority**. There are two options to choose from: Selected Rooms and Active Rooms.

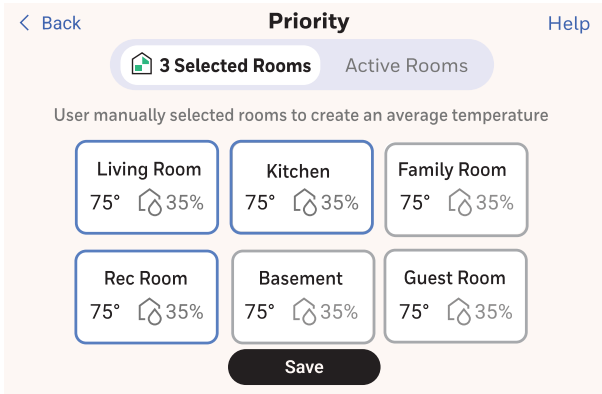
Selecting Sensors

The temperature reading displayed on the home screen is from the sensor or sensors that are being used for temperature control. You can change which sensors are being used for control by selecting menu-priority. From the home screen, touch **Menu** icon at the bottom left of the display and select **Priority**.

Priority Screen

Selected Rooms

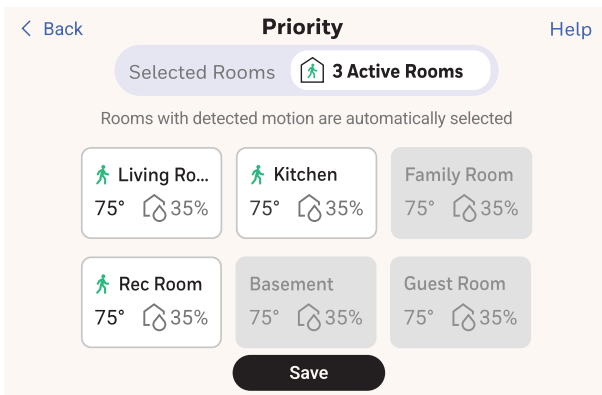
When set to “Selected rooms” you may select one or more rooms to read the wireless indoor sensor information from. When multiple sensors are selected, the temperature is averaged.



MCR39686

Active Rooms

When set to “Active rooms” the thermostat controls temperature based on the reading from the thermostat and/or indoor sensors that detect motion.



MCR39687

IAQ Reminders

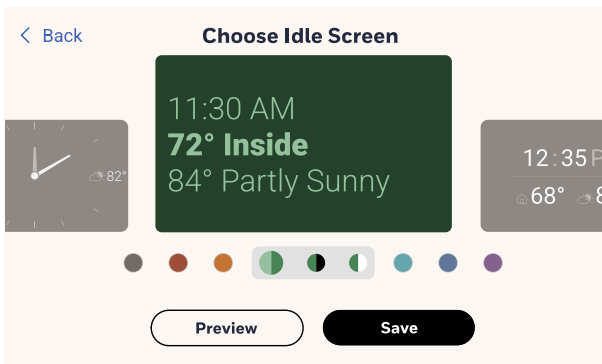
You can set up IAQ reminders in the thermostat to remind users when filters, pads, bulbs, etc. need cleaning or replacement.

See ["IAQ Reminders" on page 37](#) for more information.

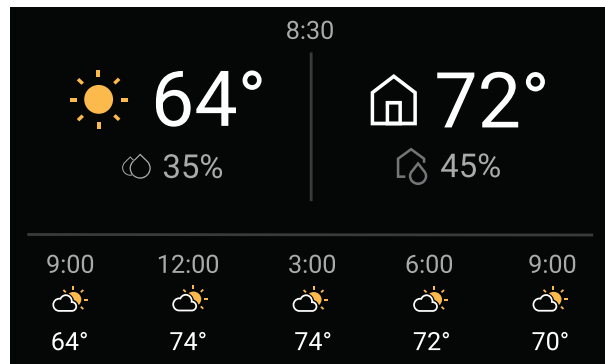
Idle Screen

The X7S & X7B Smart Thermostat allows you to select the screen color and appearance. Select **Menu > Preferences > Display > Idle Screen**.

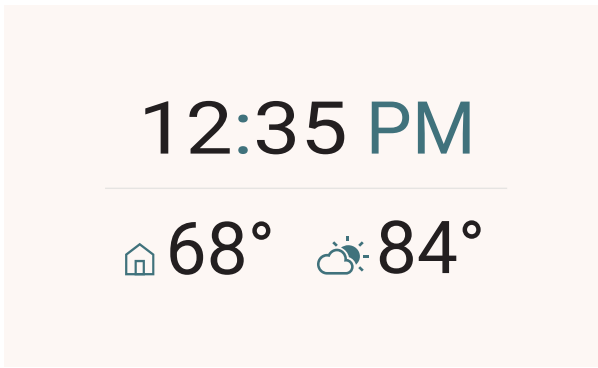
Some of the Idle Screen options are as follows:



MCR39704



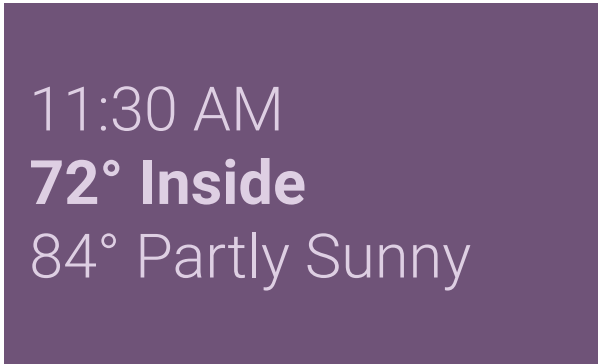
MCR39834



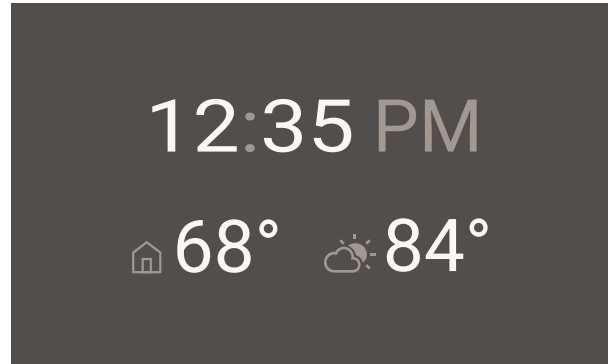
MCR39827



MCR39829



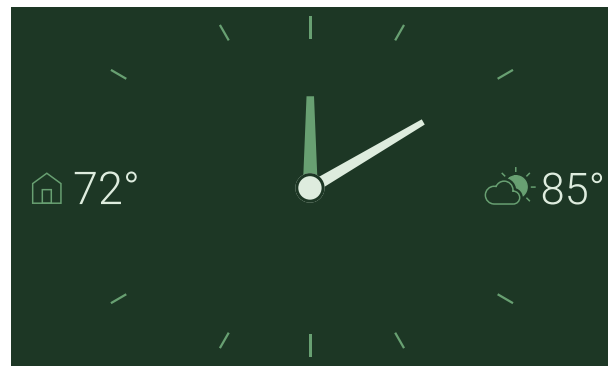
MCR39831



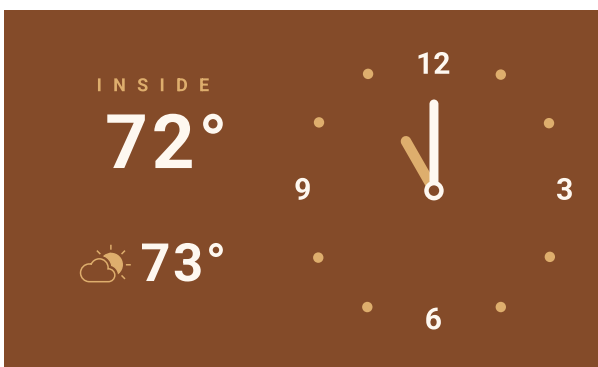
MCR39832



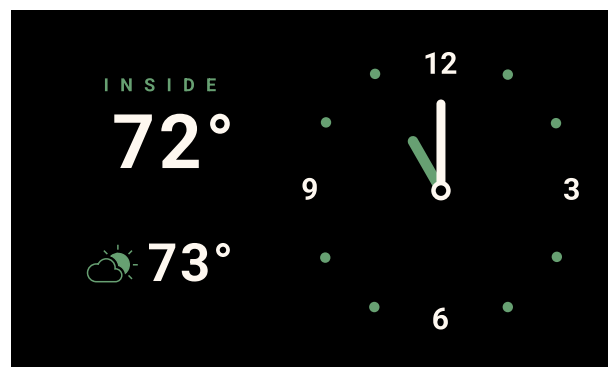
MCR39836



MCR39838



MCR39839



MCR39840

Fallback Room

Under the preferences menu you can select which Room(s) are used if either:

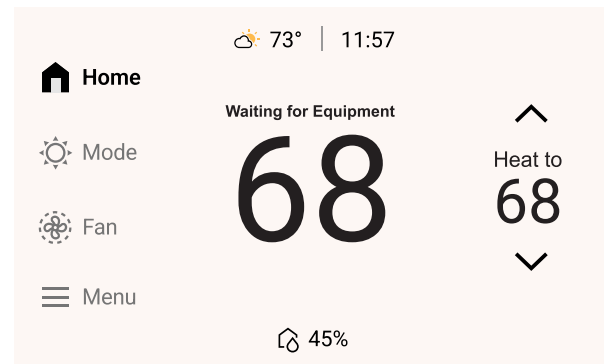
- The thermostat is set for active rooms and none of the sensors detect activity.
- The selected sensors (active rooms or selected rooms) lose communication to thermostat (sensor failure, dead batteries, etc.)

If the fallback sensor is also not communicating, the thermostat sensor will be used unless the installer had selected “**NEVER USE THERMOSTAT**”.

If you select **Fallback Room** then **Options**, you can select **Never use thermostat**. This would be done if the thermostat was mounted in a utility room or other location that is not sensing the space temperature in an area it is controlling.

Waiting for Equipment

Damage can occur if your system’s compressor is restarted too soon after shutdown. The **Built-in Compressor Protection** feature forces the compressor to wait for a few minutes before restarting. During the wait time, the display will show the message “Waiting For Equipment” above the room temperature reading. When the safe wait time has elapsed, the message disappears, and the thermostat will indicate a call for heat.



MCR39901

Battery Replacement

Indoor Sensor

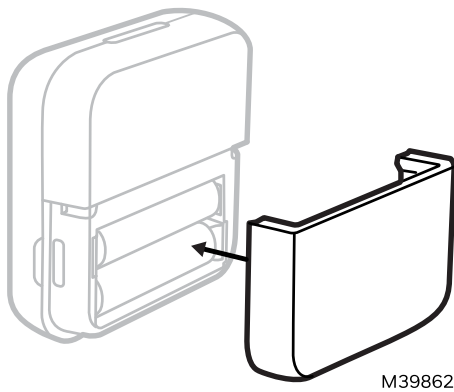
Replace batteries in your indoor sensor when a warning appears on the thermostat screen, about 60 days before batteries are depleted.

When the sensor status light begins flashing red, battery power is critically low and will be depleted within 2–3 weeks. During normal operation, the status light remains off.

To replace the batteries:

- Remove the sensor from wall plate.
- Install **2 fresh AAA alkaline** batteries. If the status light flashes green, batteries are good; if it flashes red, you must use fresh batteries.
- Attach sensor to wall plate.

The sensor will restore communication with the thermostat a few seconds after new batteries are installed.



Using the First Alert App

The First Alert by Resideo app allows you to manage and monitor your connected devices from one convenient location. The app provides an intuitive interface and powerful tools to help you stay informed and maintain control of your home or business.

For more information, visit: info.honeywellhome.com/first-alert-app

Key App features

Innovative Interface

An intuitive design makes it easy to navigate and control your devices, helping you manage your home or business and stay informed about system activity.

Smart Home Partners

Integrate with your preferred smart home platforms for added convenience and expanded control of your connected devices.

Improved Connectivity

Connect and manage multiple devices across Resideo's family of brands. The app brings your devices together so you can monitor and control them from a single location.

NOTE:

The First Alert App is regularly enhanced and the screen display may differ from that shown.

Setting Up the App

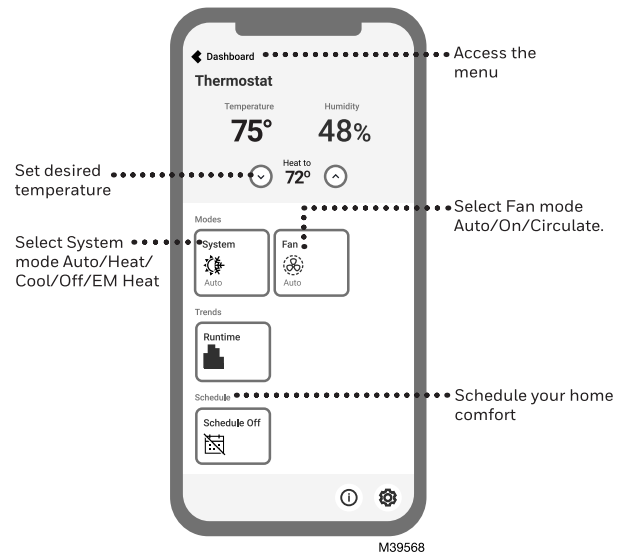
Scan to download the First Alert App



Touch the icon below to download the First Alert App:



Using the App



- [Scheduling through the app and Auto-Away](#)
- [Connecting to a Video Doorbell](#)

To add the thermostat to the app, select **MENU > Connect to App** and follow the instructions to connect.

Advanced Features

Cleaning the Thermostat Screen

When you select the Clean Screen option, the screen is locked to prevent accidental changes to the thermostat while you clean the screen.

1. Touch **MENU**.
2. Scroll to and select **Preferences**.
3. Select **Display**.
4. Select **Clean Screen**.
A prompt asks if you want to clean the screen for 30 seconds.
5. Touch **Yes**. A countdown timer displays elapsed time until the screen is reactivated.

NOTE:

Do NOT spray any liquid directly on the thermostat. Spray liquids onto cloth, then use the damp cloth to clean the screen. Use water or household glass cleaner. Avoid abrasive cleansers.

Screen Lock setting

You can adjust security options to prevent unauthorized changes to system settings.

1. Touch **MENU**.
2. Scroll to and select **Screen Lock**.

Screen Lock mode options

- **Unlocked:** Full access allowed.
- **Partially locked:** Only temperature can be changed.
- **Fully locked:** No access allowed.

There is an option in the **SCREEN LOCK** menu to require a passcode to change the Screen Lock setting. If you choose this option, the thermostat will provide a passcode. Make sure to save this.

Auto Changeover Operation

When configured this way, you can select “**Auto**” as one of the options under “**System mode**”.

When a thermostat is set to Auto Changeover, the thermostat has a Heat setpoint and a Cool setpoint and can run either Heat or Cool as needed.

Em Heat and Auxiliary Heat Operation

Auxiliary Heat:

Auxiliary Heat runs as backup to the heat pump. It runs with the heat pump when:

- The thermostat is set to Heat mode.
- Load conditions determine Backup Heat is needed.

Emergency Heat:

Emergency Heat runs when you manually switch the thermostat to the Em Heat mode. When the thermostat is in Emergency Heat mode, the heat pump is locked out.

Emergency Heat mode is only available when the thermostat is set to control a heat pump plus Backup Heat stages.

From the home screen touch **Mode**. You can set the thermostat to Heat, Off, Cool, Emergency Heat, or Auto. (Auto mode may not be available based on installer settings.)

Adaptive Recovery (Sometimes called “Adaptive Intelligent Recovery”)

Over time, the thermostat learns how long it takes your system to reach your programmed temperature setting.

The thermostat turns on the heating/cooling system early and assures that the programmed temperature setting is reached at the programmed time regardless of weather conditions. For example, if the Wake program period is set to 6:00 am with a heat setting of 70 degrees, the heat will turn on before 6:00 am, so the temperature is 70 degrees at 6:00 am. The thermostat displays **"In Recovery"** above the indoor temperature when it turns the system on early.

Adaptive Recovery calculates the recovery ramp based on how far the room temperature is away from the temperature setting, previous equipment performance and weather history, allowing the thermostat to start recovery at the optimal time so it can reach the programmed temperature setting at the programmed time. The thermostat uses two recovery ramps when set up to control a heat pump system; one ramp for the compressor and one ramp for the auxiliary heat. Once the room temperature intersects the compressor ramp, the compressor turns on until the set point is reached. If the room temperature does not rise quickly enough and intersects the second ramp, the auxiliary heat turns on. It takes about one week for the thermostat to adjust to weather conditions, equipment performance and construction of the home. If the temperature setting is reached too early or too late, the ramp is adjusted for the next day's recovery.

If you prefer not to use this feature, touch **Menu > Preferences > Adaptive Recovery** and select **Off**. Then the thermostat will not start heating or cooling in advance of the comfort schedule time.

Feels like Temperature

“Feels Like Temperature” is a setting which takes the indoor temperature and relative humidity, as well as outdoor temperature into account so that you can optimize comfort. For example, when the relative humidity is very high, 70°F feels much warmer than it does when the relative humidity is very low. For this reason, when Feels Like Temperature is enabled, the display may show a warmer temperature reading than other thermostats do when relative humidity is high.

If you prefer not to use this feature, it can be disabled in **Menu > Preferences > Display > Feels Like Temperature**.

NOTE: Feels Like Temperature can only be enabled when the thermostat knows the outdoor temperature from the app.

FAQ's

Wireless sensor questions

Q: Which wireless sensors and accessories work with X7S thermostat?

A: The X7S can be paired with up to 20 wireless indoor sensors. It cannot be paired with other Honeywell Home wireless products or sensors. X7B cannot be paired with wireless sensors. See below for compatible sensor models:

XRSENSOR-1PK: This is the wireless temperature, humidity and PIR sensor designed for use with X7S thermostats (the model number shown inside the battery compartment will not have the -1PK or 2PK).

XRSENSOR-2PK: This is a 2 pack of the wireless temperature, humidity and PIR sensor designed for use with X7S thermostats. (the model number shown inside the battery compartment will not have the -1PK or 2PK).

RCHTSENSOR-1PK: This is the sensor designed for use with T9 thermostats. Older models of this sensor will not work with X7S thermostats. If you have existing RCHTSENSOR-1PK sensor, you can attempt to pair it with the X7S. However we would not recommend purchasing these online from a 3rd party seller as you would not be able to determine the vintage/compatibility. (the model number shown inside the battery compartment will not have the -1PK or 2PK).

RCHTSENSOR-2PK: This is a 2-pack of the sensor designed for use with T9 thermostats. Older models of this sensor will not work with X7S thermostats. If you have existing RCHTSENSOR-2PK sensor, you can attempt to pair it with the X7S. However we would not recommend purchasing these online from a 3rd party seller as you would not be able to determine the vintage/compatibility. (the model number shown inside the battery compartment will not have the -1PK or 2PK).

C7189R3010-2: This is a 2 pack of the wireless temperature, humidity and PIR sensor designed for use with ElitePRO thermostats. This sensor is compatible with X7S thermostats. (the model number shown inside the battery compartment will not have the -2).

C7189R3002-2: This is a 2 pack of the wireless temperature, humidity and PIR sensor designed for use with T10+ thermostats. This sensor is compatible with X7S thermostats. (the model number shown inside the battery compartment will not have the -2).

C7189R2002-2: This is a 2 pack of the wireless temperature, humidity and PIR sensor designed for use with T10 thermostats. This sensor will not work with X7S thermostats. (the model number shown inside the battery compartment will not have the -2).

WiFi connection questions

See ["WiFi Setup and Troubleshooting" on page 29](#).

Software and security questions

Q: How can I be sure my thermostat is running the most up-to-date firmware?

A: When your thermostat is connected to WiFi, it will automatically receive over-the-air firmware updates from the First Alert App. These firmware updates contain things such as new features as well as security upgrades. Keep your thermostat connected to WiFi to ensure it receives these updates.

Q: How can I prevent a cybercriminal from making unauthorized changes to my thermostat?

A: If a cybercriminal gains access to your First Alert app, they can tamper with the settings of the products on that app, or remove those products from your account and add them to a different account. Make sure you select a password that meets the recommendations for complexity and save it in a secure location that others cannot access.

Other questions

Q: How can I remove the X7S Smart Thermostat from my WiFi network and App?

A: If you want to replace your X7S thermostat, or if you're moving out of your home and leaving the thermostat behind, you'll first want to clear out the personal settings that are stored on the thermostat. (Even when disconnected from power, the thermostat will keep your settings and home router information in memory.) We recommend resetting the thermostat's WiFi and Matter[®] settings (if previously connected).

Q: Is there a motion sensor in the thermostat?

A: The X7S thermostats have an on-board motion sensor in the thermostat. Additionally up to 20 XRSENSOR wireless indoor temperature, humidity, and motion sensors can be used with any of the X7S thermostats.

Q: What happens if "Active rooms" is used and no motion is detected in any of the rooms with sensors?

A: If the thermostat is set to control by active rooms, and no motion is detected, the sensor in the thermostat is used and the remote sensors are excluded. Most people schedule the sleep period to use "Selected sensors" rather than "active sensors" and choose the bedrooms for the sleep schedule.

Q: When using active rooms, how long are those rooms considered "Active" after motion has last been detected?

A: The sensor has an occupancy algorithm based on how many motion events it sees within a certain timeframe. This was set up so that if someone briefly walks through a room, the sensor will tell the thermostat that the room is "occupied" for 10 minutes. If someone is in a room longer, then the timeout will be increased automatically.

Sensors communicate directly with the thermostat via Honeywell Home Redlink 3.0 technology. After sensing motion, the communication should take less than 3 seconds to assign the room priority, depending on battery and signal strength.

Q: How do the wireless indoor sensors detect motion.

A: The sensors use a Passive Infrared Sensor (PIR) detector.

Q: How does motion-based priority work with multiple people in the house?

A: If the thermostat's priority is set to 'Active Rooms', then any room that detects motion will become prioritized. The average of those rooms' temperatures will be monitored so that the thermostat can adjust to your preferred temperature setpoint. If one of the sensors no longer detects people in that room, that sensor will adjust after a period of time, using the algorithm based on motion events that it sees within a certain time frame.

Q: What's the range of detection on the motion sensor?

A: There are many factors that can affect this (height, body size, layers of clothing, temperature of clothing, angle, etc.). The typical range of our sensor is up to 20 feet.

Q: Are the X7S thermostats UL and ULC listed or CSA listed?

A: UL, ULC, & CSA ratings are not required for low-voltage rated controls such as the X7S & X7B Smart Thermostats. UL rating is required for devices supplied by 50 volts or higher.

Q: Why does the display go to the Honeywell Home startup screen?

A: It is normal that the thermostat will go to the startup screen where it shows "Honeywell Home" and then returns to the idle screen after a short delay if there has been a power outage or if there has been an over-the-air firmware update. Either of these should be a very infrequent occurrence. If you notice this is happening regularly, there may be an issue with your equipment. Example: a limit may be tripping due to poor airflow.

If the issue happens regularly, we would recommend replacing the furnace filter and having an HVAC pro service the unit if the issue persists.

NOTE:

A thermostat that uses batteries, or does not have a premium display, may have been masking this type of system issue, however if a limit is regularly cutting power to the thermostat your system will likely have reduced performance and could be susceptible to damage.

Q: What happens if there is a power loss to the thermostat?

A: During a power loss the HVAC equipment cannot run.

Once power is restored the thermostat goes through a power up cycle and will initially show "Honeywell Home" on the screen.

- If the thermostat is used with any wireless sensors, it will re-establish communication within 6 minutes.
- If the thermostat had been connected to a WiFi network and the app, it will re-establish connection and update the time/date.
- If the thermostat was not connected to a WiFi network and registered to the app, the time/date will need to be reset for the thermostat to follow the program schedule.

All schedule settings are permanently stored during a power outage, however, if scheduling had been used, the thermostat will maintain 72F in heat and 78F in cool mode until the time/date has been set.

If the thermostat had been used in a permanent hold, that setting is also permanently stored during a power outage.

The thermostat will be in the same mode it had been in when power was lost (Example: heat, off, cool).

Troubleshooting and Support

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

Display Behavior Is Not As Expected

Display is blank:

- Check circuit breaker and reset if necessary.
- Make sure power switch for heating & cooling system is on.
- Make sure furnace door is closed securely.
- Make sure the C wire is connected.

Cannot change temperature setpoint:

- Verify the thermostat is set to the correct mode. Touch **Mode** to change mode setting.
- If the display indicates "**Setting locked**" when you touch the up or down arrow, you can unlock the screen by selecting **Menu > Screen lock**.
- The thermostat may be preventing you from changing the set-point above or below a certain setting because of minimum and maximum settings. **Menu > Preferences > Temperature limits**.
- Default minimum and maximum settings:
 - 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)

Weather menu isn't displayed:

This menu is only shown when the thermostat is connected to WiFi and the app. If WiFi connection is lost, the thermostat will not show that option until connection is restored.

Display temperature is inaccurate (reads too high or low)

There are different reasons that the room temperature reading on the thermostat may be reading higher or lower than expected.

- "Feels Like Temperature" is a setting that can make the indoor temperature reading show a few degrees warmer when relative humidity is high. See ["Feels like Temperature" on page 52](#).
- Indoor display offsets can be set to make the display read up to 3 degrees higher or lower than the sensor reading or +/- 12% RH from the humidity sensor reading. See ["Indoor Display Offsets" on page 33](#).
- If one or more wireless sensors is used, the thermostat can be set to measure temperature at the thermostat, a wireless sensor, or an average reading. See ["Priority" on page 35](#).

Menu options are not shown

When Menu is selected, the display shows menu options and allows the user to scroll left or right to see additional options. Some options may not be shown if the thermostat is not set to support those settings such as humidification. If the display is set for a lockout, many of the menu options are not shown. Select **MENU > SCREEN LOCK** to view lockout status. The lockout status should only be changed by the thermostat owner and there may be an option to require a password in order to unlock the screen.

Heating or Cooling Issues

Heat runs with thermostat in cool or off mode:

If this happens immediately after installation, the thermostat may be wired or configured incorrectly. Shut off power for the heating/cooling system at the breaker and call technical support or an HVAC Pro.

Heat doesn't come on:

When in the heat or emergency heat mode and not calling for heat, the display shows "heat to".

When calling for heat or emergency heat the display shows "heating to".

If display is showing "**WAITING FOR EQUIPMENT**" above the room temperature it is in a delay mode to protect the equipment. If the delay lasts longer than 5 minutes, see ["WAITING FOR EQUIPMENT stuck in display" below](#).

If display is **not** showing "**WAITING FOR EQUIPMENT**", verify the thermostat is set to Heat, Em Heat, or Auto mode and verify that the heat setpoint is above room temperature. Does the display indicate "Heating to" (rather than "heat to") above the set point?

If "**HEATING TO**" is displayed, and heat does not come on after a short delay, have the installer verify wiring connections and R/Rc slider switch on UWP are good.

If "**HEAT TO**" (rather than "HEATING TO") is displayed above the setpoint, but heat set point is above room temperature, go to EQUIPMENT STATUS and see if any reason is given for why heat is not running.

Check for any active alerts.

Cooling doesn't come on:

When in the cool mode and not calling for cooling, the display shows "cool to".

When calling for cooling the display shows "cooling to".

If display is showing "**WAITING FOR EQUIPMENT**" above the room temperature it is in a delay mode to protect the equipment. If the delay lasts longer than 5 minutes, see ["WAITING FOR EQUIPMENT stuck in display" below](#).

If display is **not** showing "**WAITING FOR EQUIPMENT**", verify the thermostat is set to cool, or Auto mode and verify that the cool setpoint is below room temperature. Does the display indicate "cooling to" (rather than "cool to") above the set point?

If "**COOLING TO**" is displayed, and heat does not come on after a short delay, verify the wire connections, R/Rc slider jumper on UWP (or R, Rh, and Rc jumpers if an EIM is used). If those variables check out, your HVAC contractor can call Tech Support to verify configuration and for further troubleshooting.

If "**COOL TO**" (rather than "COOLING TO") is displayed above the setpoint, but cool set point is below room temperature, go to EQUIPMENT STATUS and see if any reason is given for why cooling is not running.

Check for any active alerts.

WAITING FOR EQUIPMENT stuck in display

If display shows "**WAITING FOR EQUIPMENT**" then the thermostat is holding off running the heating or cooling to prevent short cycling or because of a lockout condition. The short cycling delay should last 5 minutes at most, but an alert lockout will keep that equipment locked out until the alert condition is resolved. The short cycling delay most commonly would occur on start up, after a power loss, or if someone adjust setpoint within 5 minutes of equipment shutting off.

If you time this and it shows "**WAITING FOR EQUIPMENT**" for longer than 5 minutes.

- See if there are any active alerts.
- It is possible there is an intermittently power loss to the thermostat. As a test the installer could remove all wires besides R and C from UWP and then test the heat or cooling. If the thermostat then indicates a call for heat or cooling within 5 minutes, a shorted wire or high equipment draw could be interrupting power to the thermostat momentarily at the start of a heat or cooling call.

Cooling runs below set point:

Verify the cooling is running while cool set point is above the room temperature reading on the display. If so, verify the thermostat is deliberately running cooling. When doing so, the display shows **"Cooling to"** (rather than "COOL TO"). Also, menu equipment status will show if the thermostat is trying to run cooling or not.

- If display shows "COOL TO" over setpoint, and the cooling is running, something is wrong. **Turn off the power to the cooling equipment and call a professional for assistance.**

Heat runs when room temperature reading is above the heat setpoint:

- If the thermostat is not in heat mode, see "Heat runs with thermostat in cool or off mode".
- If the thermostat is in heat or emergency heat mode, verify whether the display indicates a call for heat.

If display shows "HEAT TO" over setpoint, the heat should not be running.

If the display shows "HEATING TO" over setpoint, the thermostat is trying to run the heating.

Display shows **HEAT TO** and heat is running.

The thermostat is not trying to run the heating at this time. If display shows "HEAT TO" over setpoint, and the heat is running, something is wrong. **Turn off the power to the heating equipment and call a professional for assistance.**

Display shows **HEATING TO** and heat is running.

The thermostat is trying to run the heating at this time. It is unusual that the thermostat would run heat if the room temperature reading is above the setpoint in thermostat display. Check equipment status.

Fan Issues

Fan will not run when expected

If the thermostat is set to control a heat-only system such as a boiler, there will not be a fan setting. **Menu > Equipment Status** will show the fan state.

The X7S & X7B Smart Thermostat can have the fan set to on, auto, or circ for each schedule period. See "[Fan Scheduling](#)" on page 43.

Fan is running unexpectedly

- The thermostat have different settings that might have turned on the fan. Check **Menu > Equipment Status** to see what the thermostat indicates it is running.
- The thermostat will also run the fan with a call for cooling and in forced air heat systems the fan will also run with a call for heat (but this may or may not be controlled by the thermostat depending on the system type settings).
- The thermostat can have the fan set to on, auto, or circ for each schedule period. See "[Fan Scheduling](#)" on page 43.
- If the thermostat doesn't indicate the fan is on under the EQUIPMENT STATUS menu, it is possible something else in the system is controlling the fan such as a separate control for a humidifier, dehumidifier or ventilator.

Fan mode changes by itself

See the "[Fan is running unexpectedly](#)" above or "[Fan will not run when expected](#)" above.

Wireless sensor issues

I cannot pair a wireless sensor to my X7S thermostats?

A: If the sensor had been paired with a previous thermostat, you first need to reset that sensor. Remove the cover and press/hold the button for approximately 15 seconds to clear it. On the thermostat touch **Menu > Devices and sensors > Add**. With the sensor at least 3 feet from the thermostat, press/release the button on the sensor. If the LED never flashes, verify the batteries are fresh and installed correctly. If the sensor light flashes but the thermostat display does not indicate that it has connected to the sensor, verify sensor compatibility. See "[Q: Which wireless sensors and accessories work with X7S thermostat?](#)" on page 53.

Wi-Fi and app-related issues:

See "[WiFi Setup and Troubleshooting](#)" on page 29.

Customer Assistance

Call Resideo Customer Care toll-free at **1-800-633-3991**.

2-year limited warranty

For Warranty information go to resideo.info/US-Warranty-THERMOSTAT

Regulatory

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,
2. This device must accept any interference received, including interference that may cause undesired operation.

47 CFR § 15.21

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)

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

IC REGULATIONS

RSS-GEN

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

RF Exposure Statement: FCC and IC Regulations

Warning:

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 colocated or operating in conjunction with any other antenna or transmitter. Operations in the bands 5150-5250 MHz and 5250-5350 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.



DANGER

ELECTRICAL SHOCK HAZARD

CAN CAUSE ELECTRICAL SHOCK OR EQUIPMENT DAMAGE. DISCONNECT POWER BEFORE BEGINNING INSTALLATION.



WARNING

EQUIPMENT DAMAGE HAZARD

COMPRESSOR PROTECTION IS BYPASSED DURING TESTING. TO PREVENT EQUIPMENT DAMAGE, AVOID CYCLING THE COMPRESSOR QUICKLY.



WARNING

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.

IMPORTANT:

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 negative consequences for the environment and human health.

IFT Regulations

This device operation is subject to the following two conditions:

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

resideo

Resideo Technologies, Inc.
Scottsdale, AZ 85254
1-480-573-5340

honeywellhome.com

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33-00769-01 6/26