

# Honeywell

# System Installation Guide

# THX9321/9421 Prestige® IAQ and RF EIM

# With wireless accessories

Control for up to 4 Heat/2 Cool heat pump systems or up to 3 Heat/2 Cool conventional systems for residential and commercial applications.

# Installation guide for:

- Prestige THX9321/9421 thermostat
- Equipment Interface Module (EIM)
- Portable Comfort Control

- Wireless Outdoor Sensor
- Wireless Indoor Sensor
- RedLINK™ Internet Gateway

# **Quick start guide**

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**DISCONNECT POWER BEFORE INSTALLATION.** Can cause electrical shock or equipment damage.

**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 the Thermostat Recycling Corporation at www.thermostat-recycle.org or 800-238-8192 for information on how and where to properly and safely dispose of your old thermostat.

**Must be installed by a trained, experienced technician.** Read these instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.



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# Your Honeywell advantage

#### **RedLINK™** Compatible

Increase your content and profit per job by including RedLINK™ accessories that meet your customers comfort and convenience needs. RedLINK accessories include the Wireless Outdoor Sensor, Portable Comfort Control (PCC), Equipment Interface Module (EIM), RedLINK Internet Gateway, Wireless Indoor Sensor, TrueSTEAM™ humidifier with Wireless Adapter, TrueZONE™ zoning panel with Wireless Adapter, Vent Boost Remote and Wireless Remote.

#### **Customizable Service Reminders**

Set up to 10 service reminders. Choose from the pre-set options or customize your own. Reminders based on date, outdoor temperature or a dry contact input will alert customers with instructions to contact you for assistance.

#### **Delta T Alerts and Diagnostics**

Alerts give customers a sense of security while also enabling you to service or replace the equipment prior to a loss of heating or cooling. Based on limits you set at installation, customers can be alerted when their system is not operating as expected. The system alert will instruct customers to contact you for assistance. Requires EIM.

#### **Delta T Installer Test**

Save time by viewing Delta T while running a system test to verify proper operation. Requires EIM.

# Universal Inputs - S1 and S2

Assignable inputs allow you to configure Indoor and Outdoor Temperature Sensors, Discharge and Return Air Sensors or Dry Contact Devices. Dry Contact Devices can be used to trip pre-set or customized alerts on the thermostat home screen. Requires EIM.

#### **User Interaction Log**

The interaction log stores history of thermostat setting changes including temperature, system and installer setup. You can use the interaction log to save time by determining if the issue is a system error or an accidental user error.

#### Configurable for Residential and Light Commercial Applications

One thermostat does it all to meet the needs of Residential and Light Commercial applications. Simply select Residential or Commercial during the installer setup. If Commercial is selected, the thermostat will use commercial language, meet building codes and offer 365 day holiday scheduling.

#### **USB Port for Quick Installer Setup**

Save time by using a USB stick to upload installer settings and service reminders in one simple step.

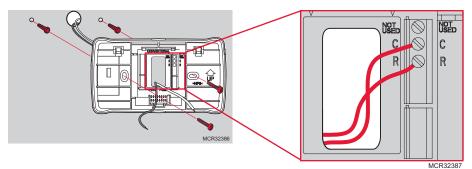
# **Equipment Setup Wizard**

The thermostat installer uses plain language and simple questions to guide you through the set-up process. Settings are automatically modified according to the type of equipment selected, helping to eliminate common installation errors.

# **Selectable Sensors**

When paired with a Wireless Indoor Sensor(s) you have the ability to choose which sensor(s) to use for temperature, humidification and dehumidification. They can be used in combination for temperature averaging—or individually—to condition humidity levels in separate spaces.

# 1 Install thermostat



- THX9421: Mount the thermostat and wire to C and R terminals of the Equipment Interface Module (EIM), or to a separate 24 volt transformer (not provided).
- THX9321: Install and wire as above if using EIM. If not, see pages 13-15.
- When used with the EIM, the relays in the thermostat do not function.

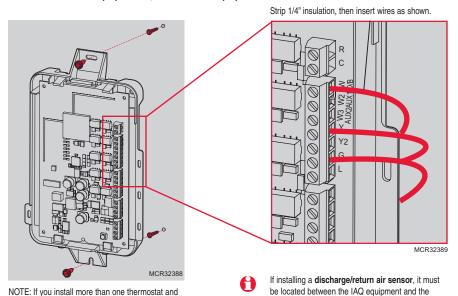
# See pages 10-17 for detailed wiring guidelines

# Install Equipment Interface Module (if used)

[If no EIM is used, skip to Section 3.]

EIM, the EIMs must be at least 2 feet apart.

Use screws & anchors as appropriate for the mounting surface. Mount the EIM near the HVAC equipment, or on the equipment itself.



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heating/cooling equipment. The sensors must be

in air that is mixed well (away from a-coil/heat

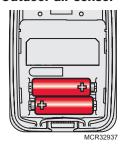
exchanger). See page 7.



# **Power optional accessories**

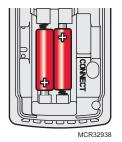
[If no wireless accessories are used, skip to Section 4.]

#### **Outdoor air sensor**



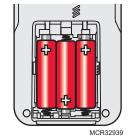
Install 2 fresh AA *lithium* batteries

# Indoor air sensor



Install 2 fresh AAA alkaline batteries

# **Portable Comfort Control**

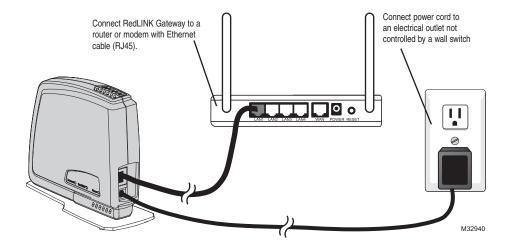


Install 3 fresh AA alkaline batteries

# **RedLINK™ Internet Gateway**

The Honeywell RedLINK Internet Gateway gives your customers remote access to home climate-control systems from any location with Internet access.

Using a Web browser, users can review and adjust indoor temperature, system mode and other settings. The Gateway can also send alerts to as many as 6 email addresses if a problem occurs.





# 4 Link thermostat to the wireless network (if used with an EIM or TrueZONE Wireless Adapter)

Next, link all components and RedLINK™ accessories to the wireless network.

# Initial powerup configuration

When the thermostat is first activated, it will lead you through the steps necessary to define and set up your system. The steps will change depending on the type of system and thermostat you're installing.

# Setup options for THX9321

#### If non-zoned system:

- Setup for thermostat only
- Setup for use with EIM

#### If zoned system:

- Setup for EIM wired to zone panel
- Setup for thermostat wired to zone panel
- Setup for RedLINK wireless connection to zone panel (using THM4000 TrueZONE Wireless Adapter)

# **Setup options for THX9421**

#### If non-zoned system:

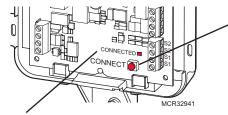
Setup for EIM connection

#### If zoned system:

- Setup for EIM wired to zone panel
- Setup for RedLINK wireless connection to zone panel (using THM4000 TrueZONE Wireless Adapter)

# Link thermostat to EIM or TrueZONE® Wireless Adapter

Use the step-by-step thermostat menus to define your system type (above). When you reach the Wireless Setup screen, follow the steps below:



Press and release the CONNECT button at the EIM or Wireless Adapter, and make sure the "Connected" light is flashing green.

If the "Connected" light does not flash, make sure no other RedLINK devices are in Wireless Setup mode, then try again.

If the "Connected" light does not flash on the Wireless Adapter, consult the TrueZONE manual for help.

#### "Connected" status light

- Green flashing: In Wireless Setup mode.
- Green steady: System is working normally.
- Red: Wireless device(s) not communicating. Check EIM and RedLINK devices.



While the EIM light is flashing, press **NEXT** to link the thermostat with the EIM. After a brief delay, the screen will display "Device Connected."

At any screen you can press **HELP** for more information, or press BACK to change earlier options.

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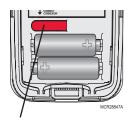
# Link optional accessories to wireless network



While the Add Device screen is displayed on the thermostat, <u>press and release</u> the *CONNECT* button on each wireless device, as described below. Accessories need to be at least 2 feet away from the thermostat or EIM during the linking process.

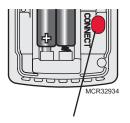
Press DONE after all devices have been linked

# Wireless outdoor sensor

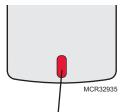


<u>Press and release</u> **CONNECT**. After a short delay the thermostat will display outdoor temperature and humidity.

# Wireless indoor sensor



<u>Press and release</u> *CONNECT*. After a short delay, the status light will glow green for 15 seconds.



If the status light turns red, the sensor did not link with the thermostat.

In normal operation, this light remains off. If it begins flashing red, batteries are low (power will be depleted after 3 weeks).

# **Portable Comfort Control**



Press *CONNECT* on the Portable Comfort Control display screen. Press *DONE* when the screen displays "Connected," then exit or continue to link another thermostat.

#### Error messages:

E1 29 Incompatible device cannot be connected.

**E1 34** Low RF signal. Move device to a different location and try again.

E1 38 Make sure the thermostat or the EIM is in Wireless Setup mode, and the Portable Comfort Control is at least 2 feet away (600 mm).

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The linking procedure will time out if there is no keypress for 30 minutes. To begin again, press and hold the blank space in the lower right corner of the screen (an arrow may appear here). Hold until the display changes (about 3 seconds).

# **RedLINK Internet Gateway**



<u>Press and release</u> the button on the bottom of the Internet Gateway. After a short delay, the RedLINK status light will glow steady green.

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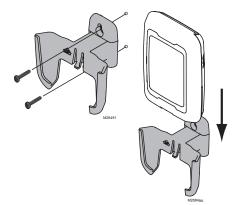
The Internet Gateway must be registered online before use at www.mytotalconnectcomfort.com. Enter the MAC ID and MAC CRC numbers located on the bottom of the Internet Gateway. For additional information, see instructions provided with the device.

# 6

# **Install optional sensors**

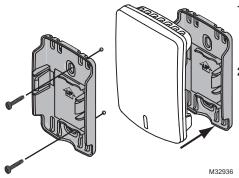
[If no sensors are used, skip to Section 7.]

# To install outdoor air sensor



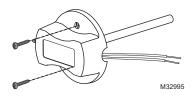
- Mount the sensor on a vertical exterior wall, at least 6 inches below any overhang. Choose a location protected from direct sunlight.
- 2 Place sensor securely in bracket, facing away from wall.

# To install indoor air sensor



- Remove the wallplate and mount it 4 to 6 feet above the floor on an interior wall. Drill 3/16-inch holes for drywall, 7/32-inch for plaster.
- 2 Attach sensor securely to wallplate as shown.

# To install discharge/return air sensor



- 1 Install the sensor between the IAQ equipment and the heating/cooling equipment. The sensors must be in air that is mixed well (away from a-coil/ heat exchanger).
- 2 Drill 1/4-inch hole for the sensor probe and mount it to the ductwork with enclosed screws.
- 3 Connect wires to S1 or S2 terminals at the EIM.

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# **Setup Installer options (ISU)**

To configure the thermostat, press MENU > INSTALLER OPTIONS, then enter date code when prompted (printed on back of thermostat). Or press MENU > EQUIPMENT STATUS to find the date code.

A brief summary of installer options follows. You can download a complete list of all options at <a href="http://customer.honeywell.com">http://customer.honeywell.com</a>.



Press CREATE SETUP to set all system settings one by one.

Press VIEW/EDIT to select a specific function and make quick changes.



TIP: You can use the thermostat USB port to download all system configuration and installer options, including your company name and contact information. You can upload this data to each thermostat you install, to save time.

R: Residential C: Commercial B: Both

Thermostat functions marked in gray below require an EIM (see page 3).

				3.7	/
ISU	Function		ISU	Function	
1000	Language	В	3170-3190	Cooling Derivative, Integral, Throttling range	С
1010	Residential/Commercial	В	3200-3220	Heating Derivative, Integral, Throttling range	С
1020	Zone Number	В	3240	Minimum Compressor Off Time	В
1030	Device Name	В	3260	Extended Fan Run Time in Cool	В
1030	Device Name on Home Screen	С	3260	Extended Fan Run Time in Heat	В
1040	Programmable/Non-programmable	В	4000	Number of Scheduled Periods	В
1050	Fahrenheit/Celsius	В	4010	Pre-occupancy Purge Duration	B B C C C C
1060	Outdoor Air Sensor	В	4020	Override: Standard or Initiate Occupancy	С
2000	Heating System Type	В	4030	Override Duration	С
2010	Heating Equipment Type	В	4050	Minimum Recovery Settings - Heat	С
2020-2100	Heat Stages	В	4060	Maximum Recovery Settings - Heat	С
2050	Geothermal Forced Air System	В	4070	Minimum Recovery Settings - Cool	C
2060	Reversing Valve O/B	В	4080	Maximum Recovery Settings - Cool	С
2070-2090	Cool/Compressor Stages	В	4090	Adaptive Intelligent Recovery	R
2110	Fan Operation in Heat	В	4100	Minimum Cool Setpoint	В
2120, 2180	Backup Heat Type	В	4100	Maximum Heat Setpoint	R B B
2130, 2170	Backup Heat Stages	В	4110	Keypad Lockout	В
2150, 2200	Backup Heat Operation	В	4120	Wireless Remote* -	
2160, 2210	Backup Heat Fan Operation	В		Home/Occupied Cool Setpoint	В
2190	External Fossil Fuel Kit	В	4120	Wireless Remote* -	
2220	L/A Terminal Setup	С		Home/Occupied Heat Setpoint	В
3000	Manual/Auto Changeover	В	4130	Wireless Remote* -	
3000	Auto Changeover Deadband	В		Away/Unoccupied Cool Setpoint	В
3010	Temperature Control Options	В	4130	Wireless Remote* -	
3020	Finish With High Cool Stage	В		Away/Unoccupied Heat Setpoint	В
3021	Finish With High Heat Stage	В	4140	Wireless Remote* -	
3030	Staging Control - Cool Differentials	В		Vacation/Holiday Cool Setpoint	В
3040-3060	Staging Control - Heat Differentials	В	4140	Wireless Remote* -	
3070	Balance Point Only or Differential	В		Vacation/Holiday Heat Setpoint	В
3080, 3090	Staging Control - Backup Heat Differentials	В	5000	Select Wired Sensors	В
3110	Backup Heat Upstage Timer	В	5010	Indoor Temperature Sensor Name	В
3120	Outdoor Compressor Lockout	В	5020	Terminals Wired to Indoor Sensor	В
3120	Outdoor Backup Heat Lockout	В	5030	Indoor Temperature Sensor Type	В
3130, 3150	Heat Cycles Per Hour	В	5040	Indoor Sensors Used for Temperature Control	В
3140	Cool Cycles Per Hour	В	5050	Terminals Wired to Outdoor Sensor	В
3160	Backup Heat Cycles Per Hour	В	5070	Terminals Wired to Return Air Sensor	В
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\* Wireless Remote - coming soon.

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# **Installer options (ISU)**

Thermostat functions marked in gray below require an EIM (see page 3).

Terminals Wired to Remote Setback Dry ContactC Remote Setback Dry Contact Setup Remote Setback Time Delay Remote Setback Time Delay Remote Setback - Standby Cool Setpoint Remote Setback - Standby Cool Setpoint Remote Setback - Standby Heat Setpoint Remote Setpoint Remote Setback - Standby Heat Setpoint Remote Setpoint	ISU	Function	
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2050     Hot Gas Bypass Setup     C       2070     Dehumidification - Overcooling Limit     R       2080     Dehumidification Control     C       2090     Dehumidification Minimum On Time     C       2010     High Humidity Comfort Reset Setting     C			
9070     Dehumidification - Overcooling Limit     R       9080     Dehumidification Control     C       9090     Dehumidification Minimum On Time     C       9100     High Humidity Comfort Reset Setting     C			<u>R</u>
9070     Dehumidification - Overcooling Limit     R       9080     Dehumidification Control     C       9090     Dehumidification Minimum On Time     C       9100     High Humidity Comfort Reset Setting     C       9110     Dehumidification High Limit Range Stop     C			
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Dehumidification High Limit Range Stop C	9100	High Humidity Comfort Reset Setting	С
	9110	Dehumidification High Limit Range Stop	С

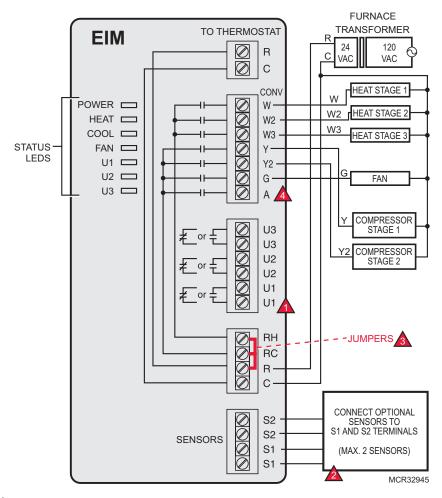
ISU	Function	
9120	System Modes Allowing Dehumidification	В
9130	Dehumidifier Fan Control	В
9140	Dehumidifier Lockout	В
9180	Dehumidification Away Mode	В
9190	Dehumidification Away Mode - Fan Control	В
9200	Dehumidification Away Mode -	
	Low Limit Temperature	В
9200	Dehumidification Away Mode -	_
	Temperature Setting	В
9200	Dehumidification Away Mode -	Ť
	Dehumidification Setting	В
9210	Dehumidifier Filter Replacement Reminder	В
10000	Ventilation Type	В
10020	Terminals Wired to Ventilator/Fresh Air Damper	В
10050	Ventilation Control Method	В
10060	Ventilation Fan Control	В
10090	Number of Bedrooms	R
10090	Size of House	R
10100	Ventilation Level (CFM)	R
10120	Ventilation Percent On Time	В
10130	Ventilation Low Temperature Lockout	В
10130		В
	Ventilation High Temperature Lockout	
10130	Ventilation High Dewpoint Lockout	В
10140	Lockout Ventilation on Hum/Dehum Calls	В
10160	Ventilate on High Indoor Humidity	В
10170	Ventilator Core Cleaning Reminder	
10170	Ventilator Filter Cleaning Reminder	В
11000	Number of UV Devices	В
11050	UV Bulb Replacement Reminder	В
11050	UV Bulb 2 Replacement Reminder	В
12000	Installer Custom Reminders	В
13000	Heat Delta T Diagnostics	В
13010	Cool Delta T Diagnostics	В
13015	Set Advanced Delta T Diagnostic Options	В
13020	Allow Delta T Diagnostics During Humidification	В
13030	Allow Delta T Diagnostics During	
	Dehumidification	В
13040	Allow Delta T Diagnostics During Ventilation	В
13050-13080	Allow Heat Delta T Diagnostics:	
	Temp & Humidity	В
13090-13120	Allow Backup Heat Delta T Diagnostics:	
	Temp & Humidity	В
13130-13160	Allow Cool Delta T Diagnostics:	
	Temp & Humidity	В
13170	Defrost Cycle	В
13180	Delta T Fault Sensitivity	В
13190	Display Delta T Alerts to Homeowner	В
14000	Clock Format	В
14010	Daylight Saving Time	В
14020	Indoor Temperature Display Offset	В
14020	Indoor Humidity Display Offset	В
15000-15020	Dealer name, phone, email, website, message	В

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# EIM wiring guide - conventional systems

Typical wiring of a conventional system with up to 3-stage heat and 2-stage cool with one transformer.



See guides on following pages for thermostat wiring and geothermal radiant heat wiring.

Wire a maximum of 2 sensors using the S1 and S2 terminals. See ISU 5000-6190 for options.

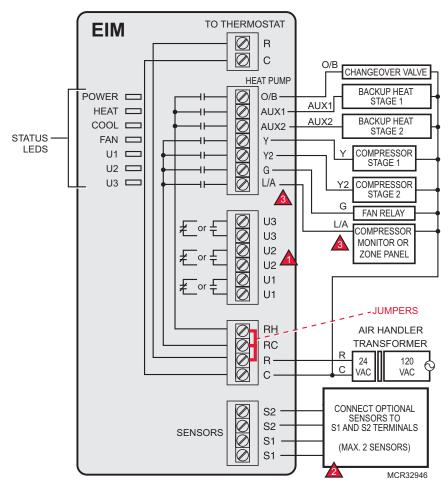
Remove jumper(s) if using separate transformers.

See Economizer wiring section.

See following pages for additional thermostat wiring guidlines for heat pumps, geothermal systems and optional Economizer.

# EIM wiring guide - heat pump systems

Typical wiring of a heat pump system with up to four-stage heat and two-stage cool with one transformer.



See guides on following pages for thermostat wiring and geothermal radiant heat wiring.

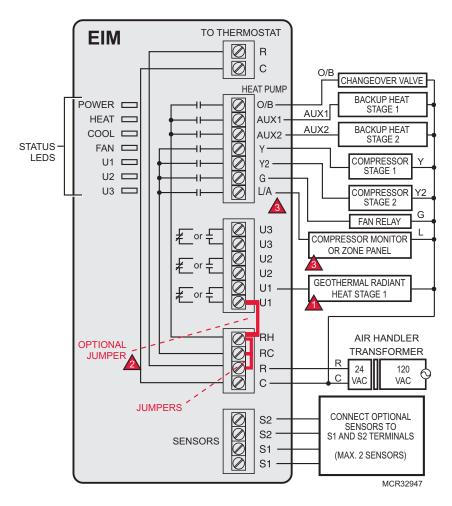


Wire a maximum of 2 sensors using the S1 and S2 terminals. See ISU 5000-6190 for options.

L/A terminal sends continuous output when thermostat is set to EM HEAT mode, except when set up for Economizer or TOD. See Economizer wiring section.

# EIM wiring guide - geothermal radiant heat

Typical wiring for geothermal radiant heat, geothermal forced-air, and backup heat with one transformer.



U1, U2 or U3 terminals must be used for geothermal radiant heat (ISU 2010). Thermostat allows 2 stages of radiant heat geothermal (stage 1) and boiler (stage 2).



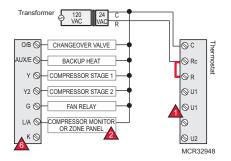
4 "U" terminals are normally open dry contacts when set up for geothermal radiant heat. You must install a field jumper if radiant heat is powered by system transformer. Do NOT install a field jumper if radiant heat has its own transformer.



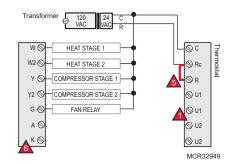
L/A terminal sends continuous output when thermostat is set to EM HEAT mode except when set up for Economizer or TOD. See Economizer wiring section.

# Thermostat wiring guides — Prestige THX9321

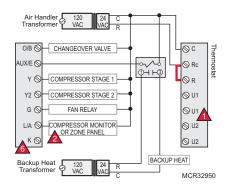
# Typical wiring of a 3-heat / 2-cool heat pump system with one transformer



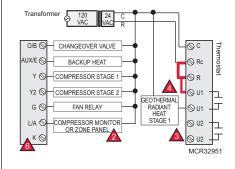
# Typical wiring of a 2-heat / 2-cool conventional system with one transformer



# Typical wiring of a 3-heat / 2-cool heat pump system with two transformers



# Typical wiring for geothermal radiant heat, geothermal forced-air and backup heat with one transformer



U1 and U2 terminals are dry contacts.



L/A terminal sends continuous output when thermostat is set to EM HEAT mode except when set up for Economizer or TOD. See Economizer wiring section.



. U1 or U2 terminals must be used for geothermal radiant heat (ISU 2010). Thermostat allows 2 stages of radiant heat geothermal (stage 1) and boiler (stage 2).



"U" terminals are normally open dry contacts when set up for geothermal radiant heat. You must install a field jumper if radiant heat is powered by system transformer. Do NOT install a field jumper if radiant heat has its own transformer.



Remove jumper if using separate transformers.



Connect the THP9045 Wiresaver Module to the K terminal in heating/cooling applications that do not have a common wire at the thermostat. The K terminal cannot be used in heat-only applications. See THP9045 installation instructions for more information.

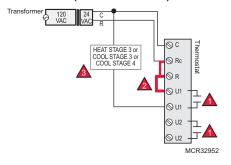
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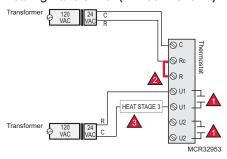
# **Prestige THX9321 or EIM:**

# Using universal relays to control heating or cooling

# Powering universal relay with system transformer (THX9321 shown)



# Powering universal relay with separate heating transformer (THX9321 shown)





U1/U2/U3 terminals are normally open dry contacts when set up for a stage of heating or cooling.



You must install a field jumper if the stage of heating or cooling is powered by system transformer. Do NOT install a field jumper if the stage of heating has its own transformer.



U1/U2/U3 terminals are assigned to a stage of heating or cooling in the Installer Setup. Options are:

- Heat -- Stage 3 (last stage of heating) -- ISU 2100, 2140, or 2170
- Cool: Stage 3 -- ISU 2080
- Cool: Stage 4 -- ISU 2090
- Geothermal radiant heat: Stage 1 -- (see wiring guide on pages 12-13)
- Geothermal radiant heat: Stage 2 -- (see wiring guide on pages 12-13)

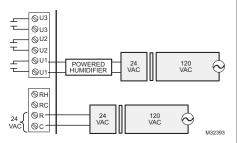
# Wiring guide - IAQ equipment (EIM or thermostat)

# "U" terminals can be used for humidification, dehumidification or ventilation.

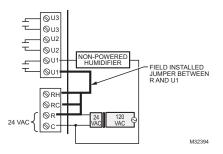
# With power supply

# Without power supply

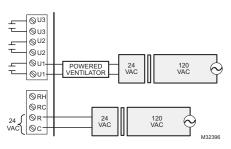
Typical hookup of powered humidifier.



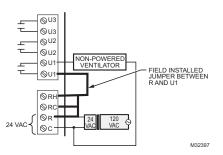
Typical hookup of non-powered humidifier.



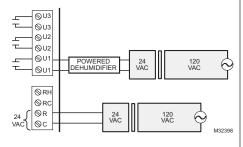
Typical hookup of powered ventilation.



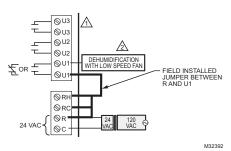
Typical hookup of non-powered ventilation.

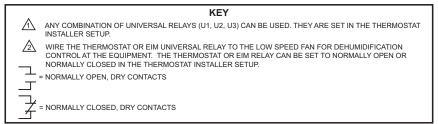


Typical hookup of powered dehumidifier (whole house dehumidifier).



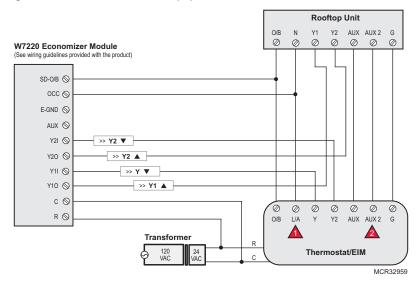
Typical hookup of variable speed blower for dehumidification in low speed.



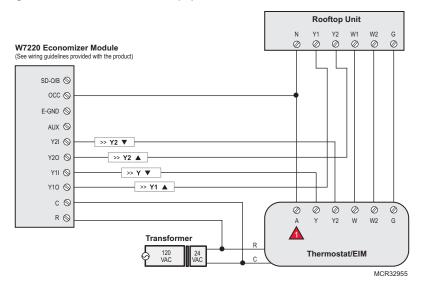


# **Economizer Module wiring guides**

Typical wiring of a W7220 Economizer Module for a heat pump system, using a Prestige THX9321 thermostat or Equipment Interface Module.



Typical wiring of a W7220 Economizer Module for a conventional system, using a Prestige THX9321 thermostat or Equipment Interface Module.





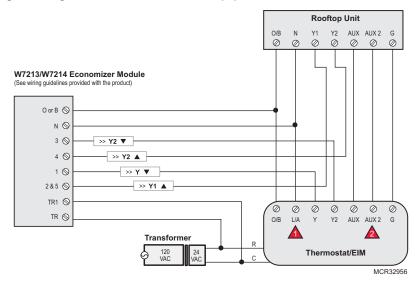
"A" or "L/A" terminal must be configured for Economizer in the installer setup (ISU 2220). These terminals are powered by the cooling transformer (Rc terminal).

2

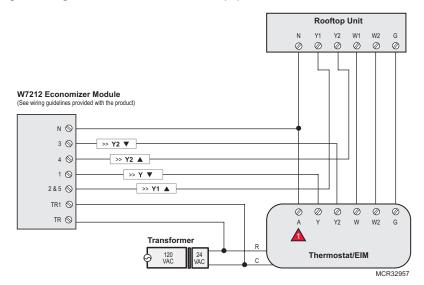
Terminal AUX 2 is present only on the Equipment Interface Module.

# **Economizer Module wiring guides**

Typical wiring of a W7213/W7214 Economizer Module for a heat pump system, using a Prestige THX9321 thermostat or Equipment Interface Module.



Typical wiring of a W7212 Economizer Module for a conventional heating system, using a Prestige THX9321 thermostat or Equipment Interface Module.



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 $\Lambda$ 

"A" or "L/A" terminal must be configured for Economizer in the installer setup (ISU 2220). These terminals are powered by the cooling transformer (Rc terminal).

Terminal AUX 2 is present only on the Equipment Interface Module.

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# **Economizer and TOD operation (ISU 2220)**

# **Commercial use only**

The Economizer can greatly reduce energy costs if configured properly. In some climates the cooling system may run hundreds of hours, when it may not be required to maintain indoor comfort. In some conditions, ventilation with outdoor air can achieve the same level of comfort at lower cost. Tables below explain how the Economizer feature maintains comfort while minimizing costs.

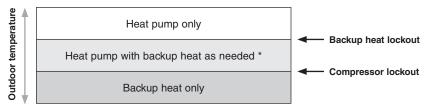
Thermostat Mode	Equipment Operation	A-L/A terminal: Economizer	
Occupied	Heat/Cool/Fan running		
Occupied temporarily	Heat/Cool/Fan running		
Occupied	Heat/Cool/Fan NOT running		
Occupied temporarily	Heat/Cool/Fan NOT running		
Pre-occupancy purge	Fan running	ON	
Unoccupied	Cooling system running	ı running	
Unoccupied temporarily	Cooling system running		
Standby	Cooling system running		
Unoccupied	Cooling system NOT running	OFF	
Unoccupied temporarily	Cooling system NOT running	OFF	
Standby	Cooling system NOT running	ON	
Non-programmable	Fan running	ON	
Non-programmable	Fan NOT running	OFF	

# Thermostat Mode Thermostat Mode Occupied Occupied temporarily Temperature overrides Unoccupied Unoccupied Unoccupied temporarily Standby Non-programmable A-L/A terminal: TOD ON ON

# Heat pump with outdoor temperature lockouts

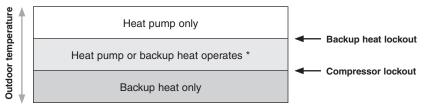
Outdoor temperature lockouts are optional. See Installer Setup options (ISU 3120).

# Backup heat allowed to run with heat pump (see table below)



No backup heat unless indoor temperature drops to selected Backup Heat Differential setting, or Backup Heat Upstage Timer expires. **Heat pump stays ON when backup heat turns on.** 

# Backup heat NOT allowed to run with heat pump (see table below)



No backup heat unless indoor temperature drops to selected Backup Heat Differential setting, or Backup Heat Upstage Timer expires. Heat pump turns OFF when backup heat turns on.

# Heat pump and backup heat operation

Backup Heat Type	<b>Backup Heat Operation</b>	Backup Heat Fan Operation
Electric forced air	Allowed to run with heat pump	Thermostat controls fan
Gas or oil forced air	NOT allowed to run with heat pump	Equipment controls fan
Hot water radiant heat	Allowed to run with heat pump	[n/a]
Hot water fan coil	Selectable in installer setup	Thermostat controls fan
Other	Selectable in installer setup	Selectable in installer setup

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# **Basic and Advanced Temperature Control Options (ISU 3010)**

Basic Options: The Installer Setup displays basic temperature control options which include Backup Heat Differential, Backup Heat Upstage Timer and Outdoor Temperature Lockouts. Note: Outdoor Temperature Lockouts only apply to Heat Pump applications.

Advanced Options: The Installer Setup displays both Basic and Advanced Options. Advanced temperature control options include Finish With High Cool Stage, Finish With High Heat Stage, Temperature Differential settings per stage and Cycle Rate settings per stage.



Finish With High Heat or Cool Stage - When a multi-stage heating or cooling system is used, this feature keeps the high stage of the heating or cooling equipment running until the desired setpoint is reached. Recommended setting for Geothermal Heat Pumps to allow the loop to rest.

# Backup heat differential and upstage timer

A backup heat differential and backup heat upstage timer can be set on any system that has more than one type of heating equipment. See installer setup options (ISU 3070-3110).

# **Normal operation**

When the *Backup Heat Differential* is set to Comfort, the thermostat uses backup heat as needed to keep the indoor temperature within 1° F (0.5° C) of the setpoint. If the *Backup Heat Upstage Timer* is used, the thermostat delays the backup heat from turning on until the timer expires.

When the *Backup Heat Differential* is set to 2° F or higher, backup heat is not used unless the indoor temperature drops to the *Backup Heat Differential* setting or the *Backup Heat Upstage Timer* expires. The upstage timer starts when the highest stage of the previous equipment type turns on.

# Manual temperature change

When the *Backup Heat Differential* is set to Comfort, the thermostat uses backup heat as needed to keep the indoor temperature within  $1^{\circ}$  F (0.5° C) of the setpoint.

When the *Backup Heat Differential* is set to 2° F or higher, if the primary heat is making progress as expected, backup heat will not be used to reach the new setpoint. Set to a higher number to use less backup heat (a greater difference between the current indoor temperature and the new setpoint is required to turn on backup heat). See note below.

#### Programmed recovery

If the primary heat is making progress as expected, backup heat will not be used to reach the setpoint of the next program period. Backup heat is <u>always</u> restricted during a programmed recovery when the Adaptive Intelligent Recovery feature is used. Set the *Backup Heat Differential* to a higher number to use less backup heat. See note below.



During a programmed recovery (or when the temperature setpoint is changed by the user), the thermostat waits to turn on the backup heat depending on system performance, load conditions and how many degrees the temperature setpoint is changed. Backup heat will be used ONLY when the temperature is not rising quickly enough to reach the setpoint in a reasonable time.

# **Humidification**

The thermostat can be set to control humidification in all modes (Heat, Off, Cool [ISU 8060]). A discharge air sensor is required to humidify in the cool mode. If both humidification and dehumidification are set up to be controlled in the same mode (Heat, Off, Cool), the thermostat maintains a 15% deadband between humidification and dehumidification setpoints. The thermostat automatically switches between humidification and dehumidification to maintain the desired humidity level.

**Humidification Control Options: (ISU 8070)** 

- · Humidify Only When Heat is On
- · Humidify Only When Fan is On
- Humidify on Demand: Thermostat Controls Fan
- Humidify on Demand: Humidifier Controls Fan



To see all humidification options, press Menu > Installer Options > View/Edit Current Setup > Humidification.

# Residential dehumidification

Dehumidification Equipment Options: (ISU 9000)

- A/C with Low Speed Fan
- A/C with High Speed Fan
- Whole House Dehumidifier

When set for *A/C with Low Speed Fan* or *A/C with High Speed Fan*, an overcooling limit can be set from 0° to 3° F (ISU 9070). The thermostat uses the cooling system to reduce humidity by lowering the temperature up to 3° F below the current cool setpoint until the the desired humidity level is reached. If set for *A/C with Low Speed Fan*, configure U1, U2 or U3 as normally open or normally closed (ISU 9050) and wire the terminal to the Low Speed Fan terminal on the equipment. During a call for dehumidification, the thermostat opens or closes the universal relay (U1, U2 or U3) to lower the fan speed.

**Note:** The thermostat will not lower the fan speed when the second stage of cooling is on.

The Whole House Dehumidifier option requires a dedicated unit for dehumidification. The thermostat can be set to control dehumidification in all modes (Heat, Off, Cool [ISU 9120]).

If both humidification and dehumidification are set to be controlled in the same mode (Heat, Off, Cool), the thermostat maintains a 15% deadband between humidification and dehumidification setpoints. The thermostat automatically switches between humidification and dehumidification to maintain the desired humidity level.



To see all dehumidification options, press *MENU > INSTALLER OPTIONS > VIEW/EDIT CURRENT SETUP > DEHUMIDIFICATION.* 

# Commercial dehumidification

Dehumidification Equipment Options: (ISU 9000)

- A/C with Low Speed Fan
- A/C with High Speed Fan
- Hot Gas Bypass
- Dehumidifier

When set for A/C with Low Speed Fan, A/C with High Speed Fan or Hot Gas Bypass, there are five methods of dehumidification control: (ISU 9080) See descriptions of each, below.

- 1 Minimum On Time
- 2 High Humidity Comfort Reset
- 3 High Humidity Comfort Reset with Minimum On Time
- 4 Reheat
- 5 Reheat with Minimum On Time
- 1 Minimum On Time (ISU 9090): This option ensures that the compressor runs long enough to effectively reduce humidity when the cooling equipment is cycled on. The compressor will run for the minimum "on time" you set until the desired humidity level is reached.
- 2 High Humidity Comfort Reset (ISU 9100): This option uses the cooling system to lower the temperature up to 5° F below the current cool setpoint until the desired humidity is reached. The high humidity comfort range is from 1° to 5° F.
- 3 High Humidity Comfort Reset with Minimum On Time (ISU 9090 and 9100): This method uses both options above to reduce humidity while maintaining a comfortable temperature.
- 4 Reheat (ISU 9080): This option allows heating to run during dehumidification to help maintain a comfortable temperature. If only cooling stage 1 is used, during the "off" cycle, both cooling and heating run at the same time as needed to dehumidify without overcooling. This option cannot be used in the Heat mode. This option is effective only if using a system with the A-Coil located before the plenum.
- 5 Reheat with Minimum On Time (ISU 9080 and 9090)

This method uses both *Reheat* and *Minimum On Time* options above to reach the desired humidity level.

The *Dehumidifier* option requires a dedicated unit for dehumidification. The thermostat can be set to control dehumidification in all modes (Heat, Off, Cool [ISU 9120]).



Hot Gas Bypass - During a call for dehumidification, the cooling capacity will be used to remove more latent heat than sensible heat. The operation of Hot Gas Bypass varies by equipment. For more details, contact the equipment manufacturer.



To see all dehumidification options, press *MENU > INSTALLER OPTIONS > VIEW/EDIT CURRENT SETUP > DEHUMIDIFICATION*.

# **Southern Dehumidification Away Mode**

This feature lowers the temperature up to 3° F below the setpoint as needed to prevent excessive humidity while the home is unoccupied.

Southern Dehumidification Away Mode options: (ISU 9180 to 9200)

- Fan Control: Auto, On or Circulate
- Low Limit Temperature Setting: Lowest temperature allowed to control humidity.
- Temperature Setting: Temperature is maintained when dehumidification is not needed.
- Dehumidification Setting: Humidity level desired while Dehumidification Away Mode is active.

You can control humidity with a dehumidifier or a cooling system. If a cooling system is used, humidity is controlled by cooling indoor air to the Low Limit Temperature Setting. When the desired humidity level is reached, the system will maintain the Southern Dehumidification Away Mode temperature setting.

# Ventilation

The thermostat can be set for the following ventilation types: (ISU 10000)

- ERV/HRV
- Passive (Fan Only)
- Fresh Air Damper

# **Ventilation Control Methods** (ISU 10060)

- ASHRAE: Operation of ventilation equipment meets the ASHRAE 62.2 Ventilation Standard based on CFM, number of bedrooms and square footage of home. ASHRAE 62.2 is not met if the user programs the thermostat to prevent ventilation in the Sleep program period.
- Percent on Time: The ventilator runs based on a percentage set in the Installer Setup. For example: if set to 50%, the ventilator runs at random times during a 1 hour period until it reaches a 50% run time (approximately 30 minutes).

**Ventilation — Outdoor Condition Lockouts** (ISU 10130). The ventilator will not operate when outdoor conditions exceed the lockout settings. Options are:

- Ventilator Low Temperature Lockout Setpoint (Off, -20° to 40° F)
- Ventilator High Temperature Lockout Setpoint (Off, 80° to 110° F)
- Ventilator High Dewpoint Lockout Setpoint (Off, 65° to 85° F)

If set to ventilate on high indoor humidity, the ventilator turns on if the indoor humidity is 10% above the Humidification setting. (ISU 10160).

# Indoor sensor operation





# 9010: Which Sensor Will be Used for Dehumidification Control? THERMOSTAT (Internal) MAIN LEVEL (Remote) CRAWL SPACE (Remote) Back Help Done Next

# **Temperature control**

The thermostat can be set to respond to its internal temperature sensor, or to an optional remote indoor sensor. If multiple sensors are used, the thermostat will respond to an average of temperatures detected at each sensor.

#### **Humidification control**

If optional remote indoor sensors are installed, you can choose which sensor you want to use for humidification control. You can use a different sensor for dehumidification.

#### **Dehumidification control**

If optional remote indoor sensors are installed, you can choose which sensor you want to use for dehumidification control. For example, you can use one sensor for humidification control, and another for dehumidification.

# Wireless indoor sensor

#### Battery level indicators (when batteries are inserted)

- Good: Status light flashes green for 5 seconds.
- · Low: Status light flashes red for 5 seconds. Use fresh batteries.

# Battery level indicators (during use)

- · Good: Status light remains off.
- Low: Battery power will be depleted in about 2 months. Thermostat displays Low Battery warning. Status light remains off
- Critical: Battery power will be depleted in about 3 weeks. Status light flashes red.



The thermostat can use up to 6 optional wireless sensors.

# Alerts and diagnostics

Maintain close contact with your customers by providing more comfort and efficiency with alerts and diagnostics. Alerts and reminders can notify customers when maintenance or service is needed, and display your contact information to make it easy for them to reach you. The following are only a few of many options. Check the thermostat's on-screen menus for more.

# **Alerts and Faults Log**

# MENU > INSTALLER OPTIONS > DATA LOGS > ALERTS AND FAULTS LOG

The thermostat saves the most recent 25 alerts or faults. It records the date, time, alert status (snoozed, dismissed, recovered), and diagnostic information to help you identify and correct problems.

# **User Interaction Log**

#### MENU > INSTALLER OPTIONS > DATA LOGS > USER INTERACTION LOG

Check this log to find out if a problem was caused by an accidental user error. The log shows most changes made to thermostat settings, by time and date, and describes what change was made.

The thermostat records the most recent 250 changes. You can quickly search them by date and time, or by function. This feature can be turned off if necessary, so that no user interactions are recorded.

# Examples:

- \* [date, time] Heat temperature set to 80° F
- \* [date, time] System mode set to Off
- \* [date, time] Installer setup changed heating equipment type

# **Delta T Diagnostics**

#### MENU > INSTALLER OPTIONS > SET UP DIAGNOSTICS

If a discharge and return air sensor is installed, the thermostat can track system performance over time. It measures this as "Delta T."

This can tell you if the system is performing above or below expected standards which would normally go unnoticed, and may cause unnecessary energy use. It can also detect and warn about problems early, before heating or cooling equipment fails.

The thermostat will measure and record Delta T of the system for each stage you test. This information can be used to set the proper Delta T fault limits of the system. When the system operates outside those limits multiple times, a fault is recorded in the log. If configured to do so, the system will then display an alert to the homeowner.



Delta T Fault Sensitivity is adjustable in the Installer Setup (ISU 13180)

Delta T diagnostics is only for non-zoned forced air systems.

# Replacing system components

# To replace an Equipment Interface Module (EIM) or thermostat

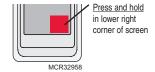
Follow steps below to <u>disconnect</u> the thermostat and RedLINK accessories. See pages 5-6 to <u>re-link</u> devices.

At the thermostat (skip this step if no EIM is used)

- 1 Press MENU > INSTALLER OPTIONS, then enter date code when prompted (printed on back of thermostat). Or press MENU > EQUIPMENT STATUS to find the date code.
- 2 Scroll down to select WIRELESS DEVICE MANAGER.
- 3 Press REMOVE DEVICE, then click THIS THERMOSTAT to remove.

#### At the Portable Comfort Control

- 1 Press and hold the blank space (or arrow if present) in the lower right-hand corner of the screen until the display changes.
- 2 Press REMOVE, then YES to disconnect from the old EIM or thermostat.



# At the Indoor Sensor, Wireless Remote, RedLINK Internet Gateway, or TrueSTEAM Wireless Adapter

<u>Press and hold</u> the *CONNECT* button on the RedLINK accessory until the status light glows amber (hold for about 10 seconds). This will disconnect the device from the old EIM or thermostat.

# To remove accessories from an EIM or thermostat

#### At the thermostat

- 1 Press MENU > INSTALLER OPTIONS, then enter date code when prompted (printed on back of thermostat). Or press MENU > EQUIPMENT STATUS to find the date code.
- 2 Scroll down to select WIRELESS DEVICE MANAGER.
- 3 Press *REMOVE DEVICE*, then select the device you want to remove.

# At the Equipment Interface Module

<u>Press and hold</u> the *CONNECT* button on the EIM until the status light glows amber (hold for about 10 seconds). This will disconnect ALL devices from the Equipment Interface Module.



If the THX9321 thermostat is setup without an EIM, all thermostat settings must be reset before it can be used with an EIM. Press MENU > INSTALLER OPTIONS, scroll down to select ADVANCED OPTIONS, then press RESTORE FACTORY DEFAULTS.

# Specifications & replacement parts

#### **Operating Ambient Temperature**

Thermostat: 32 to 120° F (0 to 48.9° C)

Portable Comfort Control: 32 to 120° F (0 to 48.9° C)
Wireless Outdoor Sensor: -40 to 140° F (-40 to 60° C)
Wireless Indoor Sensor: 0 to 120° F (-17.8 to 48.9° C)

- For Optimal Battery Life: 35 to 114° F (1.7 to 45.6° C)

Equipment Interface Module: -40 to 165° F (-40 to 73.9° C)

Return Air Sensor: 0 to 200° F (-17.8 to 93.3° C)

Discharge Air Sensor: 0 to 200° F (-17.8 to 93.3° C)

RedLINK Internet Gateway: -40 to 165° F (-40 to 73.9° C)

#### **Operating Relative Humidity**

Thermostat: 5% to 90% (non-condensing)

Portable Comfort Control: 5% to 90% (non-condensing) Wireless Outdoor Sensor: 0% to 100% (non-condensing) Wireless Indoor Sensor: 5% to 90% (non-condensing) Equipment Interface Module: 5% to 95% (non-condensing) RedLINK Internet Gateway: 5% to 95% (non-condensing)

#### Physical Dimensions (height, width, depth)

Thermostat: 3-7/8 x 6-13/16 x 1-7/16 inches (99 x 173 mm x 36 mm)

Equipment Interface Module: 9-5/16 x 4-13/16 x 1-19/32 inches (91 x 147 x 42 mm)

Wireless Outdoor Sensor: 5 x 3-1/2 x 1-11/16 inches (127 x 89 x 43 mm)
Wireless Indoor Sensor: 2-7/8 x 1-7/8 x 15/16 inches (74 x 48 x 24 mm)
Portable Comfort Control: 6-1/4 x 3-1/8 x 1-5/8 inches (158 x 80 x 38 mm)
RedLINK Internet Gateway: 6 x 4-7/8 x 2-1/2 inches (152 x 124 x 64 mm)

#### **Electrical Ratings**

Terminal	Voltage (50/60 Hz)	Max. Current Rating
W - O/B	18 to 30 VAC and 750 mVDC	1.00A
Y (cooling)	18 to 30 VAC	1.00A
G (fan)	18 to 30 VAC	0.50A
W2 - Aux 1 (heating)	18 to 30 VAC	0.60A
Y2 (cooling)	18 to 30 VAC	0.60A
W3 - Aux 2	18 to 30 VAC	1.00A
A-L/A (Output)	18 to 30 VAC	1.00A
U1, U1	30 VAC max.	0.50A
U2, U2	30 VAC max.	0.50A
U3, U3	30 VAC max.	0.50A
S1, S1	30 VAC max.	0.50A
S2, S2	30 VAC max.	0.50A

#### **Accessories & Replacement Parts**

Accessories a replacement rarts	
Item	Part Number
RedLINK Internet Gateway	THM6000R1002
Wireless Remote (coming soon)	REM1000R1003
Vent Boost Remote (coming soon)	HVC20A1000
Portable Comfort Control	REM5000R1001
Wireless Outdoor Sensor	C7089R1013
Wireless Indoor Sensor	C7189R1004
Wired Outdoor Sensor	C7089U1006
Wired Indoor Sensor	C7189U1005
Wired Flush-mount Indoor Sensor 20k ohm NTC	C7772
Wired Wall-mount Indoor Sensor 20k ohm NTC	TR21
Wired Wall-mount Indoor Sensor 10k ohm NTC	TR21-A
Discharge or Return Air Sensor 10k ohm NTC	C7735A1000
Discharge or Return Air Sensor 20k ohm NTC	C7041
Discharge or Return Air Sensor 20k ohm NTC	C7770A1006
Cover Plate (covers marks left by old thermostats)	50028399-001
Battery Pack (For demo use only)	THP1000A1007
Wire Saver Module	THP9045A1023

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# **Regulatory information**

#### FCC Compliance Statement (Part 15.19) (USA only)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.

#### FCC Warning (Part 15.21) (USA only)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

#### Equipment interface module, thermostats and outdoor sensor

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

#### **Portable Comfort Control**

This portable transmitter with its antenna complies with FCC and Industry Canada RF exposure limits for general population/ uncontrolled exposure. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Section 7.1.2 of RSS-GEN

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

#### Section 7.1.3 of RSS-GEN

Operation is subject to the following two conditions:

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

# **Need Help?**

For assistance please visit <a href="http://customer.honeywell.com">http://customer.honeywell.com</a>, or call toll-free: 1-800-468-1502 (residential installation) • 1-888-245-1051 (commercial installation)

#### **Automation and Control Solutions**

Honeywell International Inc. 1985 Douglas Drive North Golden Valley, MN 55422 http://customer.honeywell.com

