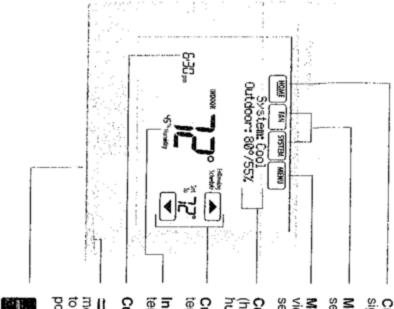
VisionPRO\* Series with RedLINK"

Honeywell



signifies the current display. Current display. Underlined label

Mode control buttons. Use to change settings for Fan or System Heat/Cool.

settings, access installer options\*, etc. view equipment status, change IAQ Menu. Select options to: set schedules.

Current status. Shows system mode humidity (with optional outdoor sensor). (heat/cool), outdoor temperature and

Current schedule. Shows desired temperature and schedule status.

Indoor conditions. Shows indoor temperature and humidity.

### Current Time.

message is active or system is set to Em Heat. Flashes for battery-only power; on continuous for 24 VAC.

to load settings and dealer

microSD Card Port. Use card

### าร.i

Thermostat (back view)

Follow these basic steps to install this thermostat,

Germa emise

Password is the date code.

link it with the wireless accessories, and set

installer options.

installing the thermostat

### 1.3 Connect power.

1.3a Insert supplied AA alkaline power. batteries for primary or backup

Q NOTE: When the thermostat is NOT used with the Equipment Interface RedLINK. Adapter, a C wire is required for Module or the TrueZONE Wireless

1.3b For 24VAC primary power transformer to C terminal connect common side of

(Date Code) Password 1.

Finding your password (Date Code)

To perform an Installer Test

To make changes to Installer Setup To add or remove RedLINK accessories (j.)

Performing initial setup

<u>d</u>

C/1

Powering optional RedLINK accessories



## Installing the thermostat

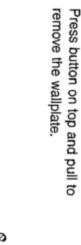
NOTE: For best RedLINK performance, mount thermostats at least 2 feet apart.

Button

Thermostat

Q

= Separate wallplate from thermostat.

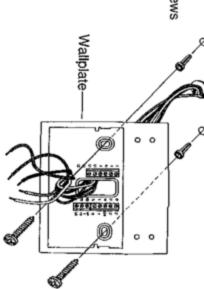


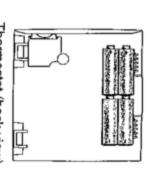
(back view) Wallplate



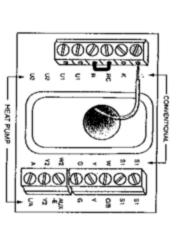
and anchors included with the Mount new wallplate using screws

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





Thermostat (back view)



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TH832181001 •

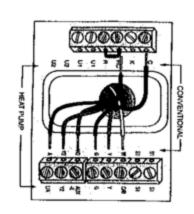
### 1.4 Wire the thermostat.

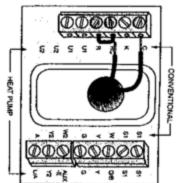
is the thermostat wired directly to the equipment?

- If the thermostat is wired directly to the equipment:
- a Refer to the table and wiring Turn on 24VAC NOW. 24VAC (C wire) is required to diagrams on the next page.

connect RedLINK accessories.

- If the thermostat is used with an C terminals or with batteries. power the thermostat using Rc and Equipment Interface Module or TrueZONE Wireless Adapter,
- ું on the thermostat do not function NOTE: The relay outputs and inputs Interface Module or TrueZONE when used with an Equipment Wireless Adapter.





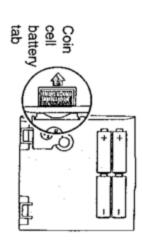
## 1.5 Remove coin cell battery tab

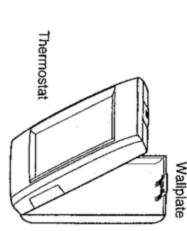
1.5a Remove tab to activate coin cell battery.

Ų. and date during a power loss. NOTE: Coin cell battery saves time

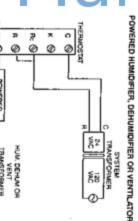
1.6 Mount thermostat on wallplate.

snap into place as shown. Align thermostat at bottom and





### × Ø

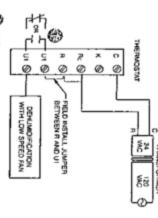


### DEHUMIDIFICATION WITH LOW SPEED FAN

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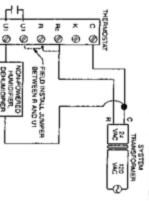
Wire the thermostat universal relay to the low speed fan for dehumidification control at the equipment. The thermostat relay can be set to normally open or normally closed in the thermostat installier setup. Normally closed, dry contacts Normally open, dry contacts

### Terminal Designations

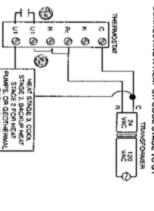
	)			The state of the s
	COO	Common wire from secondary side of cooling transformer (if 2 transformers).	C	Common wire from secondary side of cooling transformer.
Rc*		Cooling power.	A <sub>C</sub>	Cooling power.
	Hear	Healing power.	ъ	Heating power.
· ×	Heat	Heat Stage 1	80	Changeover valve for heat pumps.
W2		Heat Stage 2	AUX-E	Backup Heat/Emergency Heat
. ~	Com	Compressor Stage 1	۲	Compressor Stage 1
:	Com	Compressor Stage 2	స	Compressor Stage 2
	Fan	Fan Relay	စ	Fan Relay
. >	Conr	Connect to Economizer Module or Lighting Panel (TOD):	۲ <sub>4</sub>	Connect to Compressor Monitor, Zone Panet, Economizer Module or Lighting Panet (TOD).
U1/U1		Universal relay for humidification, dehumidification, ventilation, or a stage of teating/cooling.	U1 / U1	Universal relay for humidification, dehumidification, ventilation, or a stage of heating/cooling.
S1/S1		Universal input for a wired indoor, outdoor or discharge sensor.	S1/S1	Universal input for a wired indoor, outdoor or discharge sensor.
~		Connect to K on Wire Saver module.	?	Connect to K on Wire Saver module.
* Remov	e factory insta	Remove factory installed jumper for two transformer systems.		

\*\* The THP9045A1023 Wire Saver module is used on heat/cool systems when you only have four wires at the thermostat and you would like the thermostat to be powered with 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 your common wire. See THP9045 instructions for more information.

## NON-POWERED HUMIDIFIER, DEHUMIDIFIER OR VENTILATOR



CONNECTING A HEAT OR COOL STAGE TO UT



- ٨ Ut terminals are normally open dry contacts when set up for a stage of heating or cooling.
- 0 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.

(J)



# / Powering optional RedLINK accessories

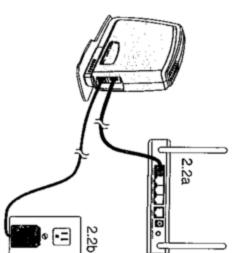
## 2.1 Install batteries in RedLINK

- Portable Comfort Control
- Wireless Outdoor Sensor
- Wireless Indoor Sensor\*
- Wireless Entry/Exit Remote\*
- Wireless Vent and Filter Boost Remote\*
- Setup options in Step 3.4. Requires setup. See Installer

### Connect gateway to internet and connect to power.

- 2.2a Connect RedLINK Internet with Ethernet cable (RJ45). Gateway to router or modem
- 2.2b Connect gateway's power cord to an electrical outlet that is not controlled by a wall switch.

directly to the equipment, 24VAC (C NCTE: If the thermostat is wired performing initial setup in Step 3. accessories. Turn on 24VAC before wire) is required to connect RedLINK

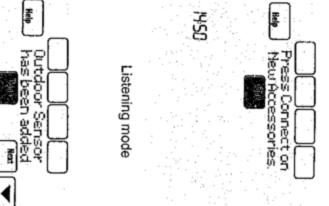




## 3.3 Connect each RedLINK accessory.

NOTE: Accessories must be at least 2 feet away from the thermostat during the linking process

- 3.3a While the Press Connect message is displayed (listening mode), press button on each new RedLINK and quickly release the CONNECT
- 3.3b After a short delay (up to 15 confirm the connection of each seconds), check thermostat to RedLINK accessory. Touch ▲ or ▼ to review the list.
- 3.3c Touch Done at the thermostat after all new RedLINK accessories are connected.
- NOTE: Thermostat displays a countdown timer while in the listening mode. If it detects no activity for 15



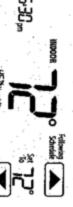
## minutes, it exits listening mode

## 3.4 Finish the initial setup.

options. Touch Done after you select the Finish the setup by selecting the desired last option you want to change.

and the thermostat setup is complete.

The thermostat now displays its Home screen









System:Cool Outdoor:887/557

HAN SYSTEM MENU

Next

Þ

### 3.2 When you see the prompt Connect RedLINK Accessories? Touch ॐ or

3.1 Follow prompts on the screen to

MOTE: If you are connecting the select the appropriate options.

thermostat to the TrueZONE Wireless

Adapter (THM4000), refer to the

TrueZONE instructions to link the

thermostat and RedLINK accessories

Then go to Step 3.4.

Initial setup options define the type of system you are installing:

Performing initial setup

Residential or commercial

Non-zoned or zoned

Used with or without an Equipment Interface Module (THM5421)

Used with or without the TrueZONE Wireless Adapter (THM4000)

- If you select %, continue to Step 3.4.
- If you select is, you will be prempted to Press Connect on New Accessories. Continue to Step 3.3.

(C)





To add or remove RedLINK accessories

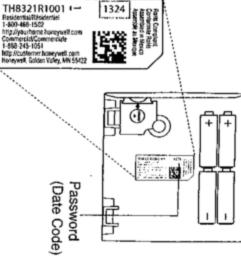
Thermostat (back view)

- To make changes to Installer Setup
- To perform an Installer Test

### Finding your password

on the back of the thermostat, You can find the date code

1 Touch Menu.



N Select Dealer Information.

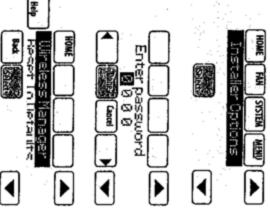


ω Scroll down to see the Date Code.



## Linking RedLINK accessories to the

- Touch Menu.
- 2 Select Installer Options.
- ω Enter password (date code) and touch Done.
- 4 Select Wireless Manager.



- Select Add Devise. The screen displays "Press is now in listening mode. Connect on New Accessories." The thermostat
- NOTE: Accessories must be at least 2 feet away from the thermostat during the
- 5a Press and quickly release the CONNECT linking process. button on each new RedLINK accessory.
- 5b After a short delay (up to 15 accessory. Touch △ or ♥ confirm the connection of each RedLINK to review the list. seconds), check thermostat to

255

- 5c Touch Jone at the thermostat after all new RedLINK accessories are connected
- it exits listening mode. timer while in the listening mode. If it NOTE: Thermostat displays a count-down detects no activity for 15 minutes,







Listening mode

# Making changes to Installer Setup and performing an Installer Test

 $\zeta_{\ell}$ NOTE: Use a microSD card to save set up time. See next page.

1 Touch Menu.

- Select Installer Options.
- 3 Enter password (date code) and touch Deag.
- Select Installer Setup or Installer Test
- S Follow prompts on the screen to select equipment test. the desired setup options or to perform an







# Using a microSD card for setup, data logs and software upgrades

microSD card to upgrade the thermostat software. For troubleshooting help, you can save the thermostat Data Logs (Alerts Log and Dealer Information, Holiday Schedules, and Custom Reminders to multiple thermostats. Use a microSD (secure digital) card to save setup time by loading Installer Setup settings, Interaction Log) to a microSD card - then view them on your computer. Also use the

# Loading Dealer Information and New Thermostat Software:

1 Visit http://thermostatsetup.honeywell.com to enter your dealer information or load new thermostat software.

Compute

Connect a microSD USB Adapter to your computer to download the file(s).

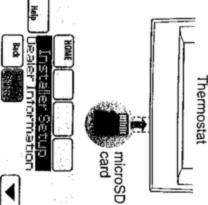
USB adapter

3 After the file(s) are downloaded, remove the microSD card from the adapter and insert into

## To use the microSD card in the thermostat:

- Slide card into the bottom of thermostat.
- Select the item to load or save.
- ω Follow the prompts on the screen.
- To put thermostat information on the To add information from the card to the thermostat, select Load from SD Card
- 4 When you are finished, touch Done, then ਜ਼ਿਹਜ਼ਾe, and remove the microSD card.

card, select Save to SD Card.





### To replace a thermostat

When you replace a thermostat, you must reset the RedLINK the instructions below: accessories before connecting them to the new thermostat. Follow

## At the Portable Comfort Control:

thermostat, go to Step 3.2. right hand comer of the screen until the display changes to disconnect from the old thermostats. To reconnect the (hold for about 4 seconds). Press REMOVE, then YES Press and hold the blank space (or arrow) in the lower

### Entry/Exit Remote, Vent-Filter Boost Remote or At the Indoor Sensor, RedLINK Internet Gateway, TrueSTEAM Wireless Adapter:

seconds). To reconnect the thermostat, go to Step 3.2 until the status light glows amber (hold for about 10 Press and hold the CONNECT button on the accessory

Press and hold

## At the Equipment Interface Module (EIM):

seconds). Follow the prompts on the screen to connect the the CONNECTED LED glows amber (hold for about 10 Press and hold the CONNECT button on the EIM until new thermostat to the EIM



# Specifications and replacement parts

## Operating Ambient Temperature

Equipment Interface Module: -40 to 165° F (-40 to 73.9° 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) Discharge Air Sensor: 0 to 200° F (-17.8 to 93.3° C)
RedLINK Internet Gateway: 32 to 120° F (0 to 46.9° C) Return Air Sensor: 0 to 200° F (-17.8 to 93.3° C) Thermostat: 32 to 120° F (0 to 48.9° C) -For Optimal Battery Life: 35 to 114° F (1.7 to 45.6° C)

## Operating Relative Humidity

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

## Physical Dimensions (height, width, depth)

Portable Comfort Control: 6-1/4 x 3-1/8 x 1-5/8 inches (158 x 80 x 38 mm) Equipment Interface Module: 9-5/16 x 4-13/16 x 1-19/32 inches (91 x 147 x 42 mm) RedLINK Internet Gateway: 6 x 4-7/8 x 2-1/2 inches (152 x 124 x 64 mm) Wireless Indoor Sensor: 2-7/8 x 1-7/8 x 15/16 inches (74 x 48 x 24 mm) Wireless Outdoor Sensor: 5 x 3-1/2 x 1-11/16 inches (127 x 89 x 43 mm) Thermostat: 4-15/16 x 4-5/8 x 1-1/8 inches (126 mm x 118 mm x 29 mm)

### RedLINK Communication

Frequency: 900 Mhz frequency range

Re-Sync Time: RedLINK devices re-establish communication within 6 minutes after AC power resumes.

### Electrical ratings

101/01	A-L/A (output)	Y2 (cooling)	W2 - Aux (heating)	G (lan)	Y (cooling)	W-OB	
9	160	150	<u>~</u>		± .	18	・ サード・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
30 VAC max.		18 to 30 VAC	18 to 30 VAC	18 to 30 VAC	18 to 30 VAC	18 to 30 VAC and 750 mVDC	
0	1.00A	0				NO.	
.50A	.00A	.50A	.60A	0.50A	.00A	.00A	

## Accessories and replacement parts

Portable Comfort

Control

Wire Saver Module THP9045A1022	Cover Plate (covers marks left by old thermostats)	Supply or Return Air Sensor 20k ohm NTC	Supply or Return Air Sensor 20k ohm NTC	Supply or Return Air Sensor 10k ohm NTC	Wired Walt-mount Indoor Sensor 10k ohm NTC	Wired Wall-mount Indoor Sensor 20k ohm NTC	Wired Flush-mount Indoor Sensor 20k ohm NTC	Wired Walt-mount Indoor Sensor 10k ohm NTC	Wireless Ouldoor Sensor 10k ohm NTC	Wireless Indoor Sensor	Wireless Ourdoor Sensor	Portable Comfort Control	Wireless Vent and Filter Boost Remote HVC20A1000	Wireless Entry/Exit Remote		Wireless Adapter for TrueZone, TrueSteam, or extend wireless range of EIM THM4000R1000	
A1023	A1019	006		000			004, C7772A1012	005	006	004	013	0R1001	1000	0F1003	0H1002	0R1000	YTHM5421R1010, THM5421R1021

Stages Residential or Commercial	3H/2C HP 2H/2C CONV	3H/2C HP 2H/2C CONV	1H/1C HP 1H/1C CONV
Residential or Commercial	<	<	
Dual Powered - C Wire or Battery	<	<	
Onboard Humidity Sensor	~		
Number of Universal Relays	_	0	
Number of Universal Sensor Inputs	_	_	
Economizer / TOD Output	1		
Works with Optional Equipment Interface Module*	~	<	
Works with Optional TrueZONE Wireless Adapter*	<	<	

<sup>\*</sup>The relay outputs and inputs on the thermostat do not function when used with an Equipment Interface Module or the TrueZONE Wireless Adapter.

<sup>\*</sup> If the thermostat has been setup WITHOUT an Equipment Interface Module or the TrueZONE Wireless Adapter and you would like to add one, you must reset the thermostat back to factory defaults. Press MENU > Installer Options > scroll down to select Reset to Defaults.



DISCONNECT POWER BEFORE INSTALLATION. Can cause electrical shock or equipment



This thermostat contains a Lithium battery which may contain Perchlorate material. Perchlorate Material—special handling may apply. See www.dtsc.ca.gov/hazardouswaste/ perchlorate



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.



Mans.io



Scan for more information

Need Help?

or call toll-free: 1-800-468-1502 (residential installation) http://customer.honeywell.com, For assistance please visit 1-888-245-1051 (commecial installation)

## Automation and Control Systems

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