

Exhibit 2 - U.S. Patent No. 10,584,890 (“’890 Patent”)

Accused Products: Resideo’s smart thermostats (e.g., Resideo T5 Pro Smart Thermostat, Resideo T6 Pro Smart Thermostat, Resideo T9 Smart Thermostat, Resideo T10 Pro Smart Thermostat), Resideo’s backend servers, and mobile application, and all versions and variations thereof since the issuance of the asserted patent.

Claim 1

Issued Claim(s)	Public Documentation
1[pre]. A thermostat system comprising:	To the extent the preamble is deemed limiting, the Accused Products include a thermostat system. For example, the Accused Products include one or more Resideo-branded thermostats supported by Resideo’s backend servers, related online interfaces, related accessories, and related mobile applications. The Accused Products represent a thermostat system and/or includes one or more thermostat systems. For example, as shown below, the Accused Products include Resideo-branded thermostat systems that allow for changes to the settings for an HVAC system among other features.

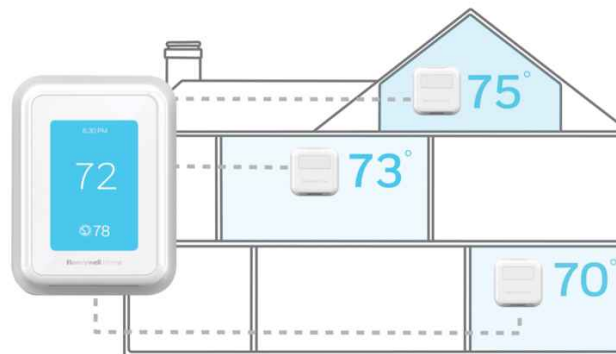


PRODUCT OVERVIEW

The T9 Smart Thermostat works with Smart Room Sensors to help you adjust the temperature from anywhere and stay cozy in the rooms that matter.

Place sensors where you want to see each room's temperature and humidity. Use the multi-room display on the thermostat's touchscreen — or in the Honeywell Home app — to focus on rooms based on occupancy or a specific schedule you choose. When focusing on multiple rooms, the T9 works toward creating an average temperature, balancing the needs across the whole home.

Whether it's a song belted in the shower or a whispered secret, your air goes beyond simply carrying oxygen to circulating memories. Heavy or light, hot or cold, always unique to your home, the air you feel is more than its temperature setting. Our Air products and services work with you and for you, supporting and creating more comfortable surroundings.



**“THE BEST RANGE I’VE
SEEN IN THIS CLASS OF
PRODUCT.”**

Focus on multiple rooms for comfort where it matters most. Don't guess at the temperature in the bedroom from the hallway. Get the comfort you want, where you want it – to sleep, work, focus or unwind.

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

	<i>See also</i> T10 Pro Smart Thermostat with RedLINK Room Sensor brochure: https://digitalassets.resideo.com/damroot/Original/10004/03-00458.pdf?_ga=2.56182061.768294451.1641940625-374792558.1641940625 <i>See also</i> T10 Pro Smart Thermostat with RedLINK Getting Started guide: https://digitalassets.resideo.com/damroot/Original/10014/33-00424EFS.pdf?_ga=2.123077901.768294451.1641940625-374792558.1641940625 <i>See also</i> T10 Pro Smart Thermostat with RedLINK User Guide: https://digitalassets.resideo.com/damroot/Original/10003/33-00428.pdf?_ga=2.52964526.768294451.1641940625-374792558.1641940625 <i>See also</i> Honeywell Home T9 Smart Thermostat with Smar Room Sensors video: https://www.youtube.com/watch?time_continue=6&v=LIdFkaxqSG0&feature=emb_title
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Selecting system mode

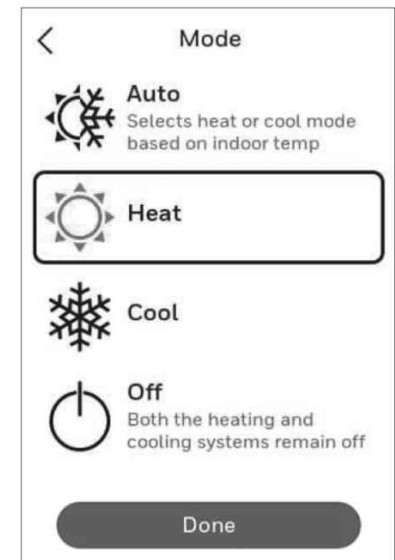
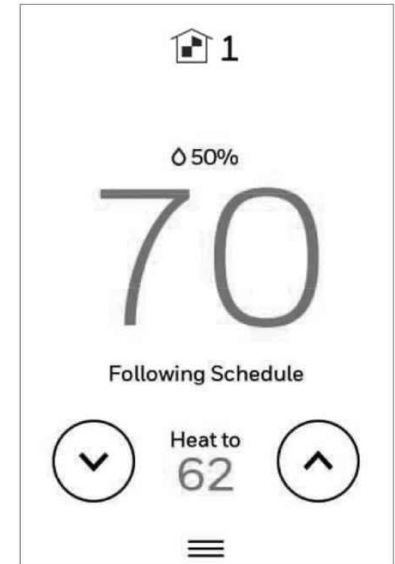
Touch homescreen to wake the thermostat.

Touch the menu icon and then touch "Select Mode."

- **Heat:** Controls the heating system.
- **Cool:** Controls the cooling system.
- **Off:** Turns the heating and cooling systems off.
- **Auto:** When enabled, the thermostat will automatically use heating or cooling to reach the desired temperature. Operation on page 9.
- **Em Heat:** Controls auxiliary or emergency heat; only available on systems with a heat pump. Operation on page 9.

Notes:

- All available modes may not be shown for some applications. Scroll down to see more mode options (if available).
- Auto mode may not appear on the thermostat screen or in the app depending on your equipment, and how your thermostat is configured.
- When Auto is selected, "Heat to" and "Cool to" will both be shown from the "active" home screen.
- Em Heat is only available for heat pump systems. The thermostat must also be configured to control a heat pump and an auxiliary/emergency heat stage.
- When Auto is selected, "Heat to" and "Cool to" will both be shown from the "active" home screen.



Main Menu on Thermostat

From Home Screen, press the menu icon at bottom of the display (3 horizontal lines). If this is not shown at home screen, touch screen to wake display first.

Main Menu options

System mode (Available modes vary depending on how the thermostat was configured)

- Heat
- Off
- Cool
- Auto – Operation on page 9.
- Em Heat – Operation on page 9.

Fan (Fan setting not available for all system types)

- Auto (Fan only runs with a call for heat or cool)
- On (fan runs continuous)
- Circulate (fan runs randomly approx. 33% of the time)

Priority

If wireless indoor temperature/humidity/motion sensors are used, select which sensors are used for temperature control. You can choose active sensor (ones detecting motion) or manually select which sensors to use.

Schedule

- Create new schedule (Set a time-based schedule)
- Disable schedule
- Reset to default schedule

NOTE: To enable geofencing, use the Honeywell Home app.

Management:

Devices & Sensors

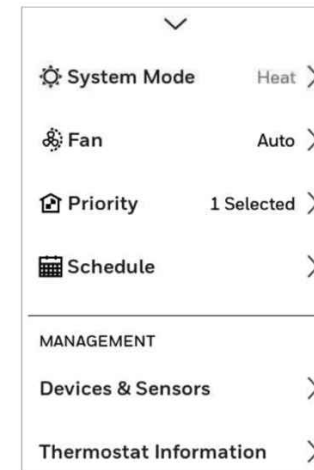
- View the temperature and humidity reading from Smart Room Sensors
- Identify a Smart Room Sensor
- Add a new Smart Room Sensor
- Remove a Smart Room Sensor

Thermostat information

- Mac Address
- IP Address
- Date Code
- Model Number
- Build Date
- Collection Version
- Wi-Fi Bootloader Version
- Wi-Fi Application Version

Equipment Status

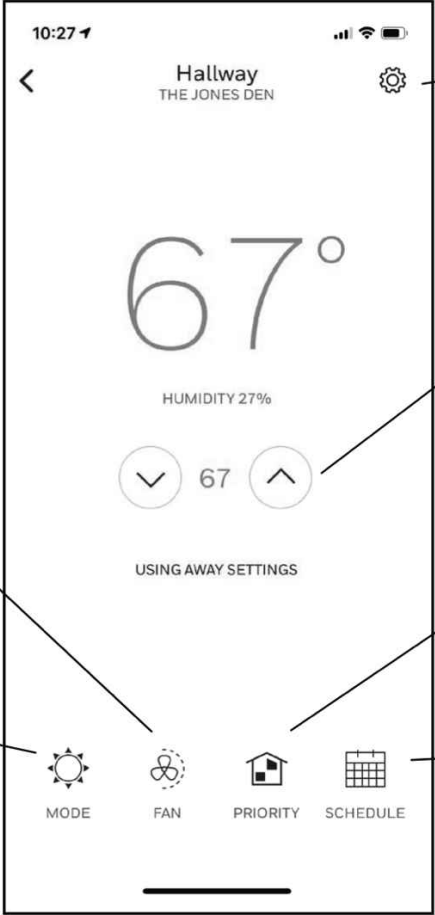
- System mode
- Heat stages (on or off)
- Cool stages (on or off)
- Fan on or off



Configuration:

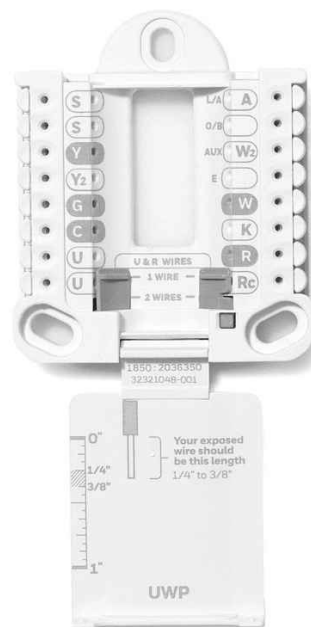
- Wi-Fi
- Connect App
- Security
- Preferences
- Advanced Setup

Scroll down to see more options

	Using the Honeywell Home App Home Screen  The screenshot shows the Honeywell Home App interface. At the top, it displays the time 10:27, signal strength, Wi-Fi, and battery icons. Below this is a back arrow, the location 'Hallway THE JONES DEN', and a gear icon for settings. The main display shows a large temperature of 67° and humidity of 27%. Below the temperature are two circular buttons with a downward arrow and the number 67, and an upward arrow. At the bottom, there are four icons labeled MODE, FAN, PRIORITY, and SCHEDULE. Annotations with lines pointing to these elements include: 'Access Menu Options Available options shown in screens below' pointing to the gear icon; 'Set Desired Temperature' pointing to the temperature display; 'Set Sensor Priority' pointing to the PRIORITY icon; 'Change Schedule Type' pointing to the SCHEDULE icon; 'Change System Mode' pointing to the MODE icon; and 'Change Fan Setting' pointing to the FAN icon. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
[1a] a housing;	The Accused Products includes a housing.

	For example, the Accused Products include Resideo-branded thermostats. Each Accused Product such as each Resideo-branded thermostat include a housing, <i>e.g.</i> , a casing, covering or container that protects the internal components.
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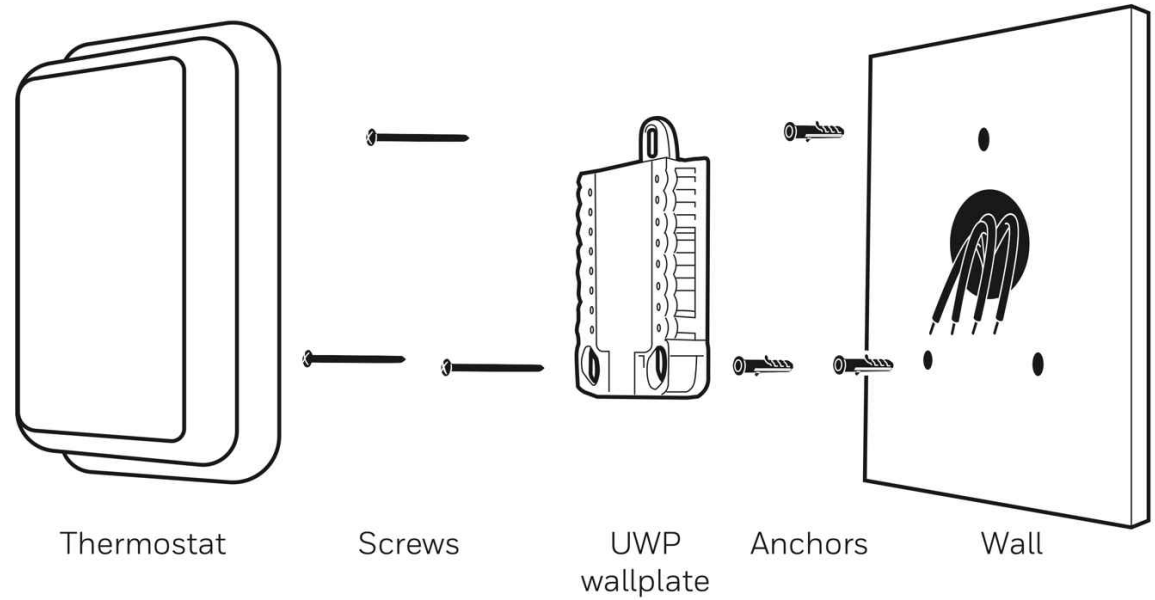




<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

Installing Your New Thermostat

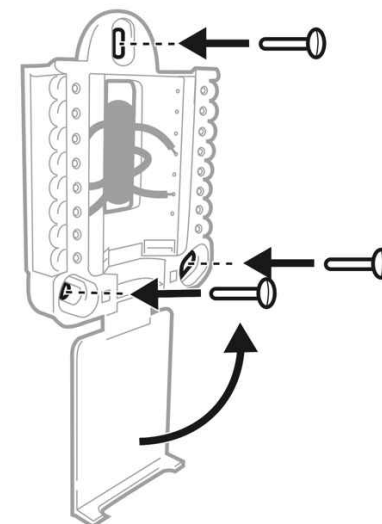
You will need: Level, pencil, drill and a drill bit



22 Close the door and mount the wall plate

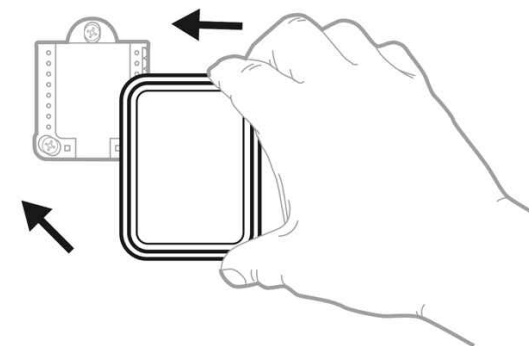
Mount the wall plate using the provided screws. Install all three screws for a secure fit on your wall.

Tip: Prior to tightening the screws, use a level to ensure the wall plate is level.



23 Attach your thermostat

Align the thermostat on the wall plate and firmly snap into place.



https://digitalassets.resideo.com/damroot/Original/10015/33-00421ES.pdf?_ga=2.51846575.768294451.1641940625-374792558.1641940625

[1b] electrical contacts configured to connect the thermostat with wires that allow for at least two electrical

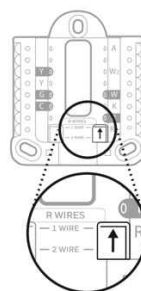
The Accused Products includes electrical contacts configured to connect the thermostat with wires that allow for at least two electrical connections from a building's HVAC system to the contacts.

connections from a building's HVAC system to the contacts;	For example, each of the Accused Products includes electrical contacts configured to connect the thermostat with wires that allow for at least two electrical connections from a building's HVAC system to the contacts. Resideo's installation manual, web pages, and videos instruct users how to install the Resideo-branded thermostats by connecting the electrical contacts that connect the thermostat with wires that allow for at least two electrical connections from the building's HVAC system to the contacts. For example, the thermostat installation instructions explain that while each system's wiring is different, there are electrical contacts in the wall plate to connect the thermostat with wires (<i>e.g.</i> , Y, C, R, RC, RH, G) that allow for at least two electrical connections from the building's HVAC system to the contacts so that the HVAC system or its components can be signaled to turn on or off.
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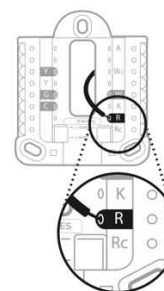
20 Determine Correct R-Switch Position and Insert R-wire or wires

Set the R-switch up or down based on your wiring notes in **Step 8**. Insert wires into the inner holes of the terminals on the wall plate. The tabs will stay down once the wire is inserted.

If you have **1 R-Wire** (R, RC, RH):



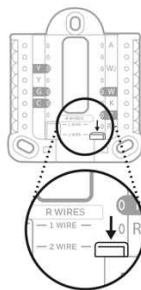
1. Ensure the right R-switch is in the **up position**.



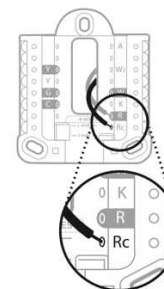
2. Insert your **R-wire (R, Rf or Rc)** into **R-terminal**.

OR

If you have **2 R-Wires** (R, RC, RH):



1. Set right R-switch to the **down position**.



2. Insert your **Rc wire into Rc-terminal**.
3. Insert your **R or Rh wire into R-terminal**.

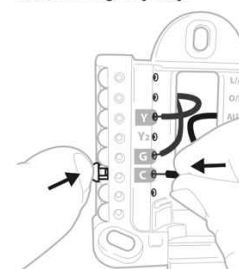
21 Connect remaining wires from Step 8

Push down on the tabs to put the wires into the inner holes of their corresponding terminals on the wall plate (one wire per terminal) until it is firmly in place.

Gently tug on the wires to verify they are secure.

Tip: If you need to release the wires again, push down the terminal tabs on the sides of the wall plate.

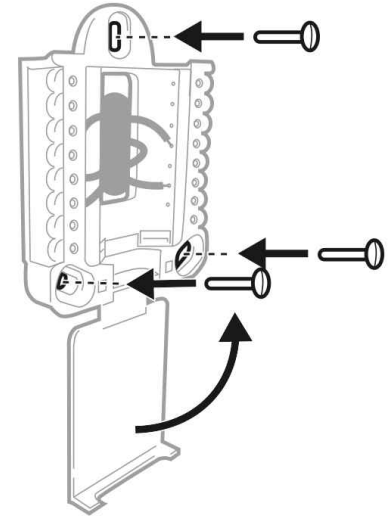
This wiring is just an example, actual wiring may vary.



22 Close the door and mount the wall plate

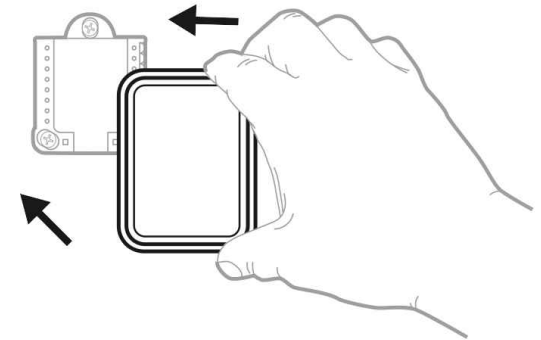
Mount the wall plate using the provided screws. Install all three screws for a secure fit on your wall.

Tip: Prior to tightening the screws, use a level to ensure the wall plate is level.

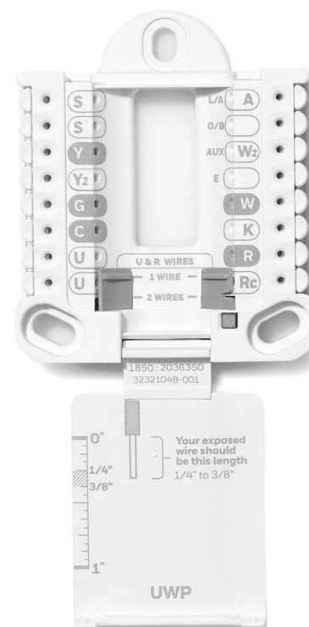


23 Attach your thermostat

Align the thermostat on the wall plate and firmly snap into place.



https://digitalassets.resideo.com/damroot/Original/10015/33-00421ES.pdf?_ga=2.51846575.768294451.1641940625-374792558.1641940625



	SPECIFICATIONS T9 SMART THERMOSTAT WITH SENSOR <table> <tr> <td>Thermostat Type</td><td>Programmable, WiFi</td></tr> <tr> <td>Color</td><td>White</td></tr> <tr> <td>Includes</td><td>Thermostat, Installation guide, UWP Wall Plate, Wireless Sensor, Screws, Anchors, Wire Labels, C-Wire Adapter</td></tr> <tr> <td>Utility Rewards</td><td>Yes</td></tr> <tr> <td>Stages</td><td>Up to 3 Heat/2 Cool</td></tr> <tr> <td>Program Modes</td><td>7-Day Programmable</td></tr> <tr> <td>Display Type</td><td>Touch Screen</td></tr> <tr> <td>Product Height</td><td>4.92 in</td></tr> <tr> <td>Product Width</td><td>3.7 in</td></tr> <tr> <td>Warranty</td><td>2 Years</td></tr> </table> https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u	Thermostat Type	Programmable, WiFi	Color	White	Includes	Thermostat, Installation guide, UWP Wall Plate, Wireless Sensor, Screws, Anchors, Wire Labels, C-Wire Adapter	Utility Rewards	Yes	Stages	Up to 3 Heat/2 Cool	Program Modes	7-Day Programmable	Display Type	Touch Screen	Product Height	4.92 in	Product Width	3.7 in	Warranty	2 Years
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SPECIFICATIONS

T9 SMART THERMOSTAT WITH SENSOR

Thermostat Type	Programmable, WiFi
Color	White
Includes	Thermostat, Installation guide, UWP Wall Plate, Wireless Sensor, Screws, Anchors, Wire Labels, C-Wire Adapter
Utility Rewards	Yes
Stages	Up to 3 Heat/2 Cool
Program Modes	7-Day Programmable
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Product Height	4.92 in
Product Width	3.7 in
Warranty	2 Years

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u#compatibility>

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 any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select "Preferences".
4. Select "Display".
5. Select "Clean Screen"

A prompt asks if you want to clean the screen for 30 seconds.

6. 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.

Would you like to deactivate the touch screen for 30 seconds for cleaning?

No

Yes

Setting Preferences

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

To access the Preferences menu:

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “preferences”.

Select an option and follow prompts:

Display

- Temperature units (Fahrenheit or Celsius)
- Language (English French or Spanish)
- Inactive backlight setting (0% to 100%)
- Inactive Sleep backlight setting (0% to 100% and inactive sleep time settings. Note: these can be set different than the schedule sleep times)
- Indoor display offsets (temperature and humidity)
- Clean screen (allows you 30 seconds to clean display without accidentally adjusting a setting)

Date and Time

- Set date
- Set time
- Set to 12 or 24 hour clock
- Set for daylight savings time

Reminders (these vary based on ISU settings)

- Air Filter
- Humidifier Pad
- Dehumidifier
- Filter
- Ventilator Filter

Adaptive recovery

- On or Off

Touch Done to save your settings.

Using Your Thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

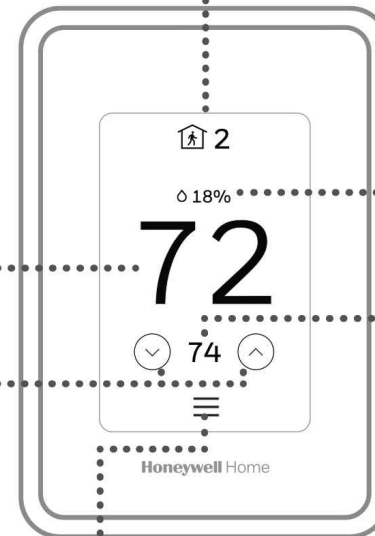
Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized.

Indoor Humidity

Displays the current indoor humidity.



Adjust Temperature

Touch the up and down arrows to set your desired temperature.

Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.

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Using your thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized. Extend your thermostat's reach with additional Wireless Room Sensors.

Indoor Humidity

Displays the current indoor humidity.

Adjust Temperature

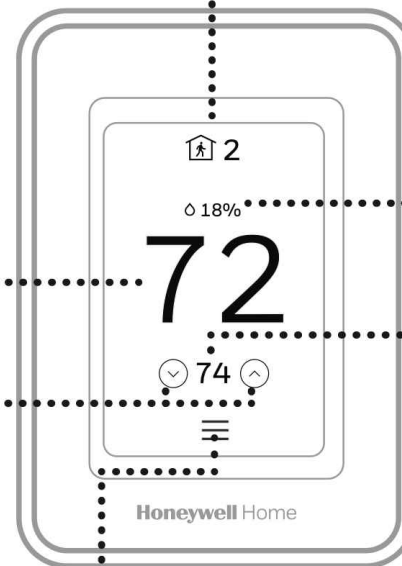
Touch the up and down arrows to set your desired temperature.

Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.



	https://digitalassets.resideo.com/damroot/Original/10015/33-00421ES.pdf?_ga=2.51846575.768294451.1641940625-374792558.1641940625
[1d] a wireless radio compatible with a wireless radio frequency protocol and configured to communicate bi-directionally with a location-aware mobile device;	The Accused Products include a wireless radio compatible with a wireless radio frequency protocol and configured to communicate bi-directionally with a location-aware mobile device. For example, the Accused Products connect to the internet via Wi-Fi and allows a location-aware mobile device to view data and adjust settings:



★★★★★ (3465)

T9 SMART THERMOSTAT WITH SENSOR

Smart Home
Integration



Auto Home/Away
Scheduling
(Geofencing)



Wi-Fi Type

2.4 and 5.0 GHz

Supports Additional
Sensors

Up to 20

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

HOMEOWNERS

PROFESSIONALS

Honeywell Home

About Us

United States | English

resideo

PRODUCTS

HOW IT WORKS

SUPPORT

OFFERS

FOR PROS

FIND A PRO

Home

Security

HOME SINCE 9:43 AM

Nursery

LAST ACTIVITY 8:38 AM

Living Room

HEATING TO 72°

72°

Kitchen Sink

72° 28%

LAST CHECKED 6:17 AM

THE HONEYWELL HOME APP FOR A SMARTER HOME

Easily control, monitor, and support your connected home comfort, security, and awareness products all with a single app.

GET THE APP

DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

DOWNLOAD THE APP

Easily install and connect all of your connected devices using the Honeywell Home app.

MANAGE USAGE

Set up your dashboard to control and monitor your devices from anywhere.



DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

TAKE CONTROL

From all-in-one security to thermostat control, you can have full access to any of your connected home devices.



<https://www.resideo.com/us/en/honeywell-home-app/>

Thermostat Features

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

- **Location-based temperature control:** Using geofence technology, the T9 Smart thermostat will automatically use your smartphone's location, which can save you 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.
- You can also choose not to set a schedule and adjust the thermostat manually
- **Schedule Using Sensors**
- Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
- Sensor Priority for each program period or when used manually.

Tip: The Honeywell Home app can be used to manage multiple thermostat and multiple users in a household.

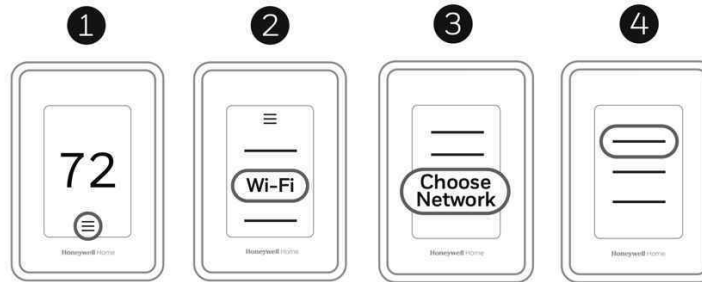
 **Smart Alerts:** The T9 Smart thermostat will send alerts for things like extreme indoor temperatures and reminders for things like filter changes.

 **Auto change from heat to cool:** When Auto mode is selected, the T9 Smart thermostat can automatically determine whether your home needs heating or cooling to reach the desired temperature.

	Getting the most from the T9 Smart Thermostat Prioritize Rooms 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 smartphone. Save Energy With geofencing, you can save money on the most expensive part of your energy bill while you're away. Simple Installation The thermostat automatically programs itself. Just answer a few simple questions and you'll be up and running in no time. Whole-Home Range With a 200-foot range, 20 sensors with temperature, humidity, and occupancy detection can connect to your thermostat from throughout your home. Keep an eye on your home 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 warm.
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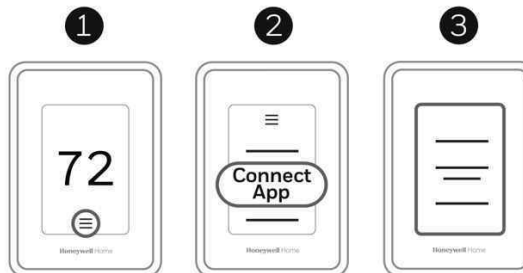
Connect to Wi-Fi

1. Open the Menu
2. Scroll to and select "Wi-Fi"
3. Tap "Choose Network"
4. Select a network

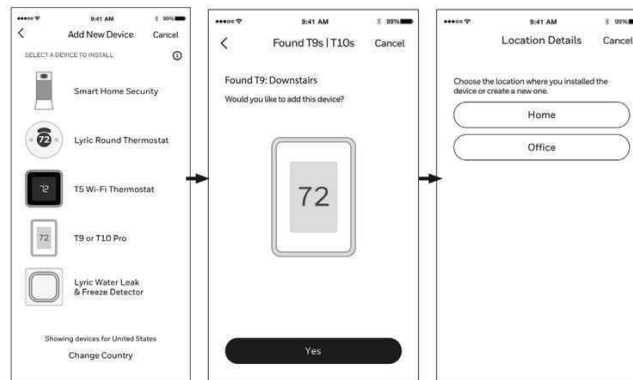


Connect to the Honeywell Home App

1. Open the Menu
2. Tap "Connect App"
3. Follow the on-screen instructions



1. Select thermostat model
2. Select location where the thermostat is installed or create a new location.



Enabling or disabling Wi-Fi and disconnecting and reconnecting to a Wi-Fi network

On thermostat

Enable Wi-Fi

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”
4. Verify “Enable” is selected.

Connecting to a Wi-Fi network

1. Verify Wi-Fi is enabled using steps above.
2. Touch “Choose network”
3. Select the network you wish to connect to from the list and enter the password.

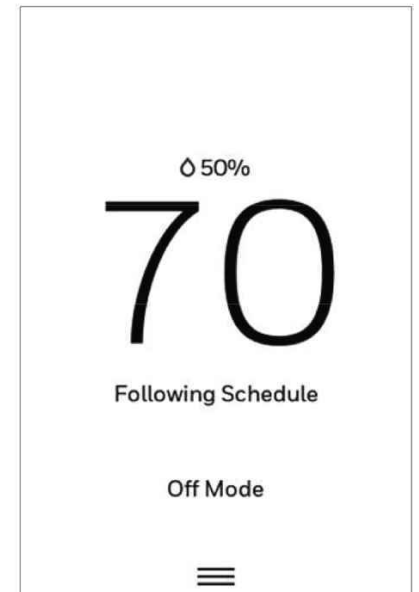
Disable Wi-Fi

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”
4. Verify “Enable” is de-selected.

Disconnecting from a Wi-Fi network

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”.
4. Touch “Choose network”
5. Select the network you wish to connect to from the list and enter the password.

NOTE: For Wi-Fi troubleshooting, get help at <https://www.honeywellhome.com/questions/why-is-my-thermostat-wifi-not-working>



When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using **Away** Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen.

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.

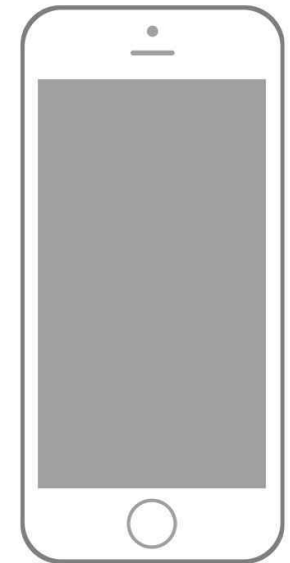
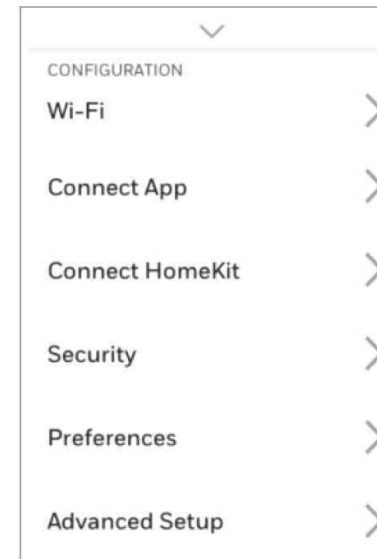
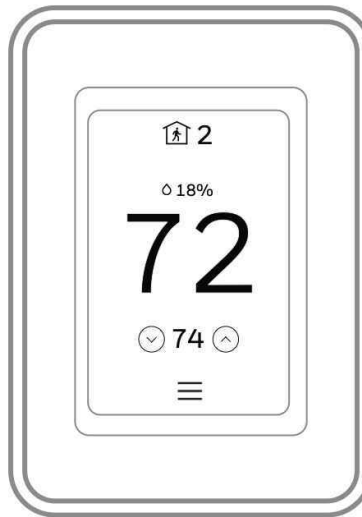
To adjust the geofence boundary, follow the steps below.

1. Open the Honeywell Home app, tap the menu icon ≡ in the upper left corner and then tap **Geofence**.
2. Tap **Geofence Radius**, and when the map and current geofence appear, touch, hold and drag the black dot to adjust the geofence boundary.
3. Tap **SAVE** to finish.



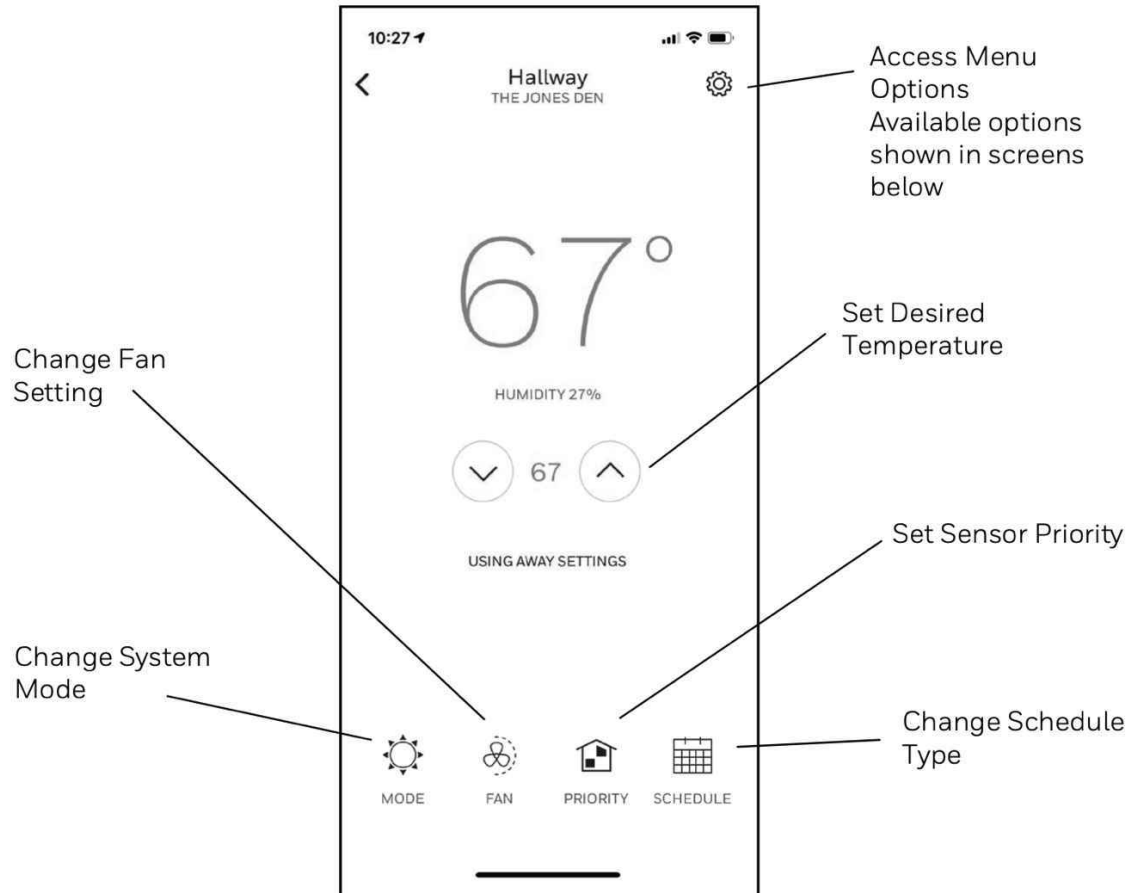
Apple® HomeKit® Setup

1. Touch Menu icon at the bottom of the T9 home screen.
2. Scroll down and select “Connect HomeKit”.
3. Use the Apple Home App and select “Add Accessory”. Scan the code shown on your thermostat with your phone.
4. Follow the instructions on your phone.



Using the Honeywell Home App

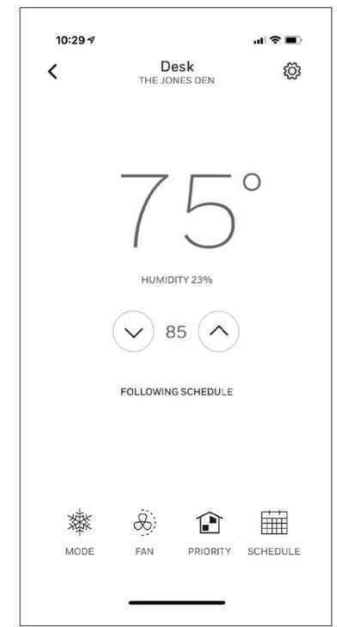
Home Screen



Scheduling through the app

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

- **Location-based temperature control:** Using geofencing technology, the T9 Smart 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.
1. In the Honeywell Home 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.



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

A: Yes. Location-based temperature control (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 Honeywell Home 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.

<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

GEOFENCING

Location awareness provides precise performance from your smart home devices to respond to your needs throughout the day.



<https://www.resideo.com/us/en/honeywell-home-app/>

[1e] a temperature sensor;	The Accused Products include a temperature sensor. For example, the Accused Products include at least one temperature sensor that determines inside temperature measurement and humidity of the user's building. The Resideo T9 Thermostat webpage states, "Sense the temperatures in the places that matter most with the T9 Smart Thermostat. Focus on the rooms you choose by adding Smart Room Sensors and setting a schedule or let the sensors respond to your lifestyle."
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	https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u As another example, the T9 Smart thermostat with Smart Room sensor User Guide indicates: • Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
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Using Your Thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

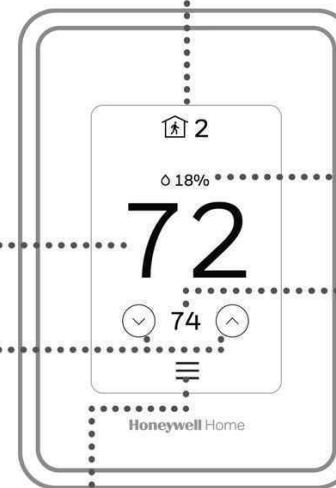
Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized.

Indoor Humidity

Displays the current indoor humidity.



Adjust Temperature

Touch the up and down arrows to set your desired temperature.

Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.

Smart Room Sensor information

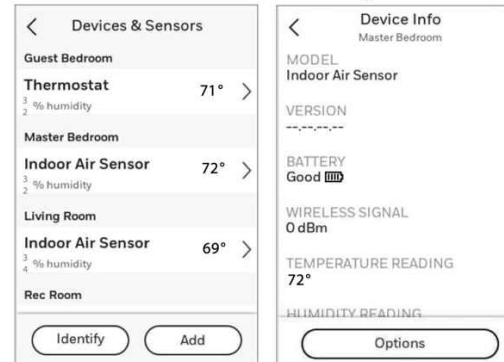
When one or more wireless temperature/humidity/motion sensors have been linked to the thermostat by the installer, you can check the status of the sensor using the following steps.

Checking the status of a sensor

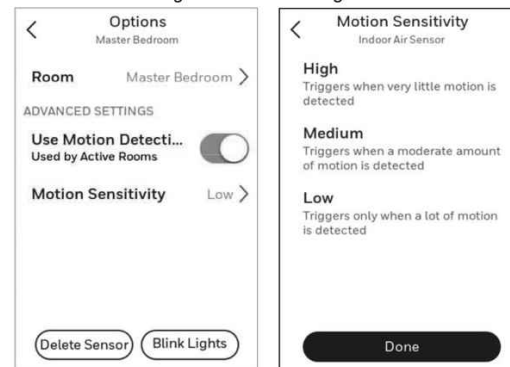
1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and touch "Devices and Sensors".



- View the sensors, add a sensor or identify a sensor
- To identify a sensor, touch "Identify" and then remove the cover from a sensor and press the button on that sensor. The thermostat will indicate the room name of that sensor.
- Touch a sensor name from the list to get information on that sensor



- Touch Motion Sensitivity to adjust setting
- Touch "Blink lights" to make the light on the selected sensor flash for 5 seconds.



	Adding a wireless sensor 1. Touch any part of the display to wake the thermostat. 2. Touch the MENU icon at the bottom of the screen. 3. Scroll down and touch "Devices and Sensors".  4. Touch "Add" 5. Follow the on-screen directions to pair and name your new sensor To Remove a Sensor from the T9 (from thermostat) 1. Touch any part of the display to wake the thermostat. 2. Touch the MENU icon at the bottom of the screen. 3. Scroll down and select "Devices and Sensors" 4. Select the sensor you wish to remove. Select the "Options" button at the bottom of the display. 5. Touch "Delete". To Remove a Sensor from the T9 (From the sensor) 1. Locate the sensor you wish to remove from your thermostat 2. Remove Sensor Cover and verify the batteries are inserted 3. With the cover off, Press and Hold the Connect button for 30 seconds. (The Sensor LED will switch from steady green to red.) 4. Release the Connect button. Your sensor will now be removed from the "Devices and Sensors" list. If a sensor was previously paired with another T9 Smart thermostat, you will need to remove it from the previous thermostat prior to pairing it with your new T9 Smart thermostat. Sensors are only compatible with one thermostat at a time. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
[1f] one or more processors configured with electronic circuitry to:	Accused Products include one or more processors configured with electronic circuitry. For example, the Accused Products includes memory, processors and circuitry and code, to schedule heating and cooling, to set the device into Cool, Heat, or Auto modes and to enable a variety of features. For example, one or processors are on the Resideo-branded thermostat device and/or one or more Resideo backend or cloud servers. These one or more processors are used to enable features such as automatically changing temperature settings when the user leaves home or comes back home, such as with geofencing features in the mobile application, or other features.
[1g] receive HVAC data parameters, including a first data parameter from the temperature sensor comprising an interior temperature inside the building; and	The Accused Products receive HVAC data parameters, including a first data parameter from the temperature sensor comprising an interior temperature inside the building.

	For example, Accused Products include at least one temperature sensor that determines inside temperature and humidity measurements of the user's building. The Resideo T9 Thermostat webpage states, "Sense the temperatures in the places that matter most with the T9 Smart Thermostat. Focus on the rooms you choose by adding Smart Room Sensors and setting a schedule or let the sensors respond to your lifestyle." https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u As another example, the T9 Smart thermostat with Smart Room sensor User Guide indicates: • Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
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Using Your Thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

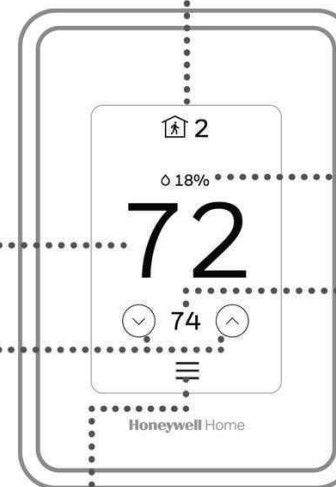
Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized.

Indoor Humidity

Displays the current indoor humidity.



Adjust Temperature

Touch the up and down arrows to set your desired temperature.

Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.

<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

[1h] a second data parameter from a network connected to the thermostat, wherein the second data parameter comprises an outside weather condition collected from a source external to the building;

The Accused Products receive a second data parameter from a network connected to the thermostat, wherein the second data parameter comprises an outside weather condition collected from a source external to the building.

For example, Accused Products receive weather data from a network connection from a source external to the building, e.g., the internet.

1060	Outdoor temperature	• None • Internet	None	Outdoor temperature can be displayed on the thermostat when connected to the Wi-Fi and registered to an account.
INTERNET REQUIRED FOR OUTDOOR TEMPERATURE		To receive outdoor temperature, the thermostat needs to be connected to the Internet. The installer may have configured the thermostat to use outdoor temperature for equipment lockouts.		Touch "View Wi-Fi settings"below alert message to link thermostat to network.

<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

	The thermostat can be controlled and programmed using its touch display or the Honeywell Home mobile app for Android and iOS (the same app that controls Lyric smart devices). The app opens to a screen that displays the local weather conditions and has tabs for all of your Honeywell Home devices including thermostats, cameras, and water sensors. Tap the T9 thermostat tab to open a screen that shows the same information as the thermostat's display. At the top of the screen are the current room temperature and humidity readings, and right below that you'll find the current target temperature and up/down arrows for adjusting the target temperature. At the bottom of the screen are Mode, Fans, Priority, and Schedule buttons. Use the Mode button to turn heating and cooling on and off, and use the Fans button to change fan settings (if fans are connected). https://www.pcmag.com/reviews/honeywell-home-t9-smart-thermostat-with-sensor
[1i] determine a first temperature setpoint data parameter for the building, wherein the first setpoint data parameter includes a first temperature value and a first time value;	The Accused Products determine a first temperature setpoint data parameter for the building, wherein the first setpoint data parameter includes a first temperature value and a first time value. For example, the Accused Products allow for programming a wake, away, home, and/or sleep setpoint that includes both a first temperature and a first time value:



	Thermostat Features Flexible scheduling: You can choose to use location-based temperature control (geofence technology), program a set schedule or use a combination of both to make sure your home is always comfortable. • Location-based temperature control: Using geofence technology, the T9 Smart thermostat will automatically use your smartphone's location, which can save you 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.
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Setting a schedule on thermostat

Select the menu icon at the bottom of the homescreen display. Then select Schedule.

- If you want all days the same, select “grouped days.”
- Touch the period you wish to edit (Wake, Away, Home, or sleep).

< Schedule

Grouped Days Single Days

EVERY DAY

Wake
6:00 AM 70° 78° >

Away
8:00 AM 62° 85° >

Home
6:00 PM 70° 78° >

Sleep
10:00 PM 62° 82° >

ADD Period

Schedule Options



< Wake
EVERY DAY

Time 6:00 AM >

Priority Selected Rooms >

Temperature 70° 78° >

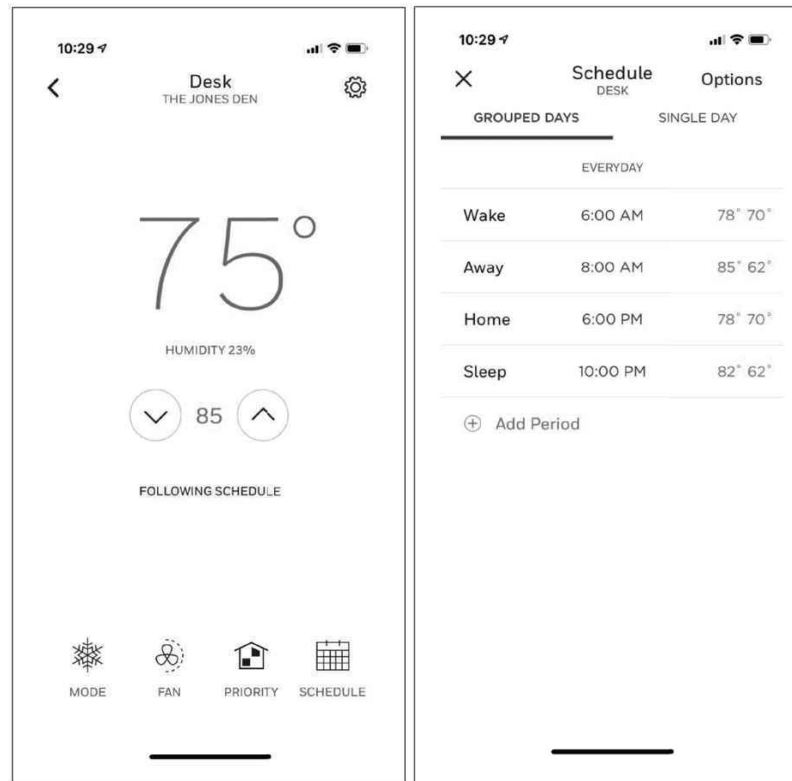
Fan Auto >

Disable Period

Scheduling through the app

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

- **Location-based temperature control:** Using geofencing technology, the T9 Smart 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.



	When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using Away Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen. 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. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
[1j] determine a second temperature setpoint data parameter for the building, wherein the second setpoint data parameter includes a second temperature value and a second time value;	The Accused Products determine a second temperature setpoint data parameter for the building, wherein the second setpoint data parameter includes a second temperature value and a second time value. For example, the Accused Products allow for programming a wake, away, home, and/or sleep setpoint that includes both a second temperature and a second time value: Thermostat Features Flexible scheduling: You can choose to use location-based temperature control (geofence technology), program a set schedule or use a combination of both to make sure your home is always comfortable. • Location-based temperature control: Using geofence technology, the T9 Smart thermostat will automatically use your smartphone's location, which can save you 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.

Setting a schedule on thermostat

Select the menu icon at the bottom of the homescreen display. Then select Schedule.

- If you want all days the same, select “grouped days.”
- Touch the period you wish to edit (Wake, Away, Home, or sleep).

The 'Schedule' screen features a back arrow on the top left and two toggle buttons: 'Grouped Days' (which is selected and highlighted with a black border) and 'Single Days'. Below these, the text 'EVERY DAY' is displayed. The main content area lists four periods: 'Wake' at 6:00 AM with temperatures 70° and 78°, 'Away' at 8:00 AM with temperatures 62° and 85°, 'Home' at 6:00 PM with temperatures 70° and 78°, and 'Sleep' at 10:00 PM with temperatures 62° and 82°. Each period has a right-pointing chevron icon. At the bottom, there is a 'Schedule Options' button.

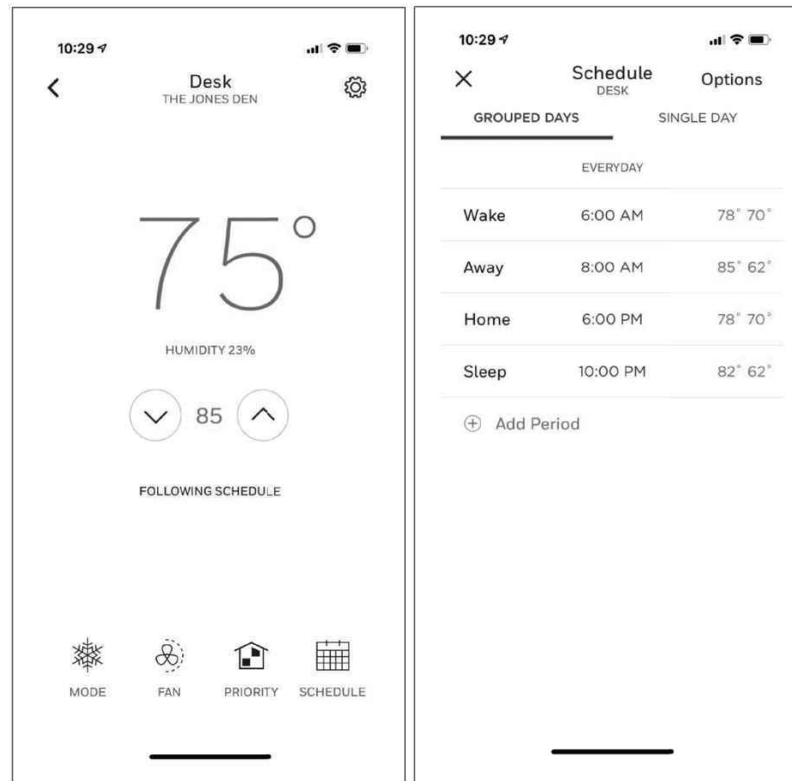


The 'Wake' settings screen has a back arrow on the top left and the title 'Wake' with 'EVERY DAY' underneath. It contains four settings, each with a right-pointing chevron icon: 'Time' set to 6:00 AM, 'Priority' set to 'Selected Rooms', 'Temperature' set to 70° and 78°, and 'Fan' set to 'Auto'. At the bottom, there is a 'Disable Period' button.

Scheduling through the app

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

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	When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using Away Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen. 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. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
[1k] receive radio frequency signals from the location-aware mobile device;	For example, each of the Accused Products includes one or more wireless radios compatible with a wireless radio frequency protocol (<i>e.g.</i>, Wi-Fi, 802.11, Bluetooth, etc.) and configured to communicate bi-directionally with a location-aware mobile device, such as the user's mobile phone, tablet, smartphone, <i>e.g.</i>, using Resideo's mobile application. For example, the below excerpts show that the Resideo-branded thermostats can connect to Wi-Fi networks, which use wireless radio frequency protocols, using internal Wi-Fi compatible radios. Further, as another example, the geofencing feature and "location awareness provides precise performance from your smart home devices to respond to your needs throughout the day," which shows that the Accused Products are configured to communicate bi-directionally with a location-aware mobile device. For example, using a mobile device with the Resideo mobile application, which is to Resideo's servers and/or thermostats via Wi-Fi or some other , a user can change the setpoints of the thermostat and enable or disable features capable of doing same. On information and belief, Resideo's cloud-based program may also communicate with the memory. In addition, the Accused Products can communicate with remote sensors, which are configured to communicate with the memory of the Accused Products.

HOMEOWNERS

PROFESSIONALS

Honeywell Home

About Us

United States | English

resideo

PRODUCTS

HOW IT WORKS

SUPPORT

OFFERS

FOR PROS

FIND A PRO

Home

Security

HOME SINCE 9:43 AM

Nursery

LAST ACTIVITY 8:38 AM

Living Room

HEATING TO 72°

72°

Kitchen Sink

72° 28%

LAST CHECKED 6:17 AM

THE HONEYWELL HOME APP FOR A SMARTER HOME

Easily control, monitor, and support your connected home comfort, security, and awareness products all with a single app.

GET THE APP

DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

DOWNLOAD THE APP

Easily install and connect all of your connected devices using the Honeywell Home app.

MANAGE USAGE

Set up your dashboard to control and monitor your devices from anywhere.



	DOWNLOAD THE APP MANAGE USAGE TAKE CONTROL TAKE CONTROL From all-in-one security to thermostat control, you can have full access to any of your connected home devices. 
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<https://www.resideo.com/us/en/honeywell-home-app/>



★★★★★ (3465)

T9 SMART THERMOSTAT WITH SENSOR

Smart Home
Integration



Auto Home/Away
Scheduling
(Geofencing)



Wi-Fi Type

2.4 and 5.0 GHz

Supports Additional
Sensors

Up to 20

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

GEOFENCING

Location awareness provides precise performance from your smart home devices to respond to your needs throughout the day.



<https://www.resideo.com/us/en/honeywell-home-app/>

Thermostat Features

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

- **Location-based temperature control:** Using geofence technology, the T9 Smart thermostat will automatically use your smartphone's location, which can save you 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.
- You can also choose not to set a schedule and adjust the thermostat manually
- **Schedule Using Sensors**
- Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
- Sensor Priority for each program period or when used manually.

Tip: The Honeywell Home app can be used to manage multiple thermostat and multiple users in a household.



Smart Alerts: The T9 Smart thermostat will send alerts for things like extreme indoor temperatures and reminders for things like filter changes.

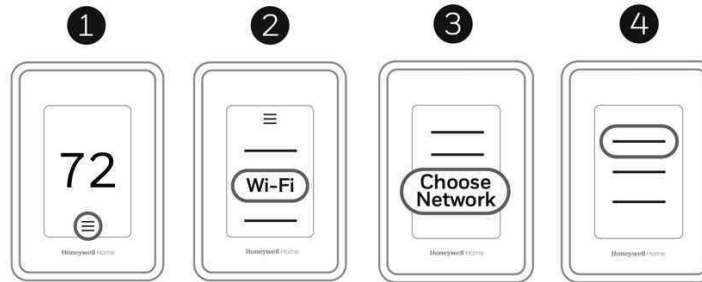


Auto change from heat to cool: When Auto mode is selected, the T9 Smart thermostat can automatically determine whether your home needs heating or cooling to reach the desired temperature.

	Getting the most from the T9 Smart Thermostat Prioritize Rooms 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 smartphone. Save Energy With geofencing, you can save money on the most expensive part of your energy bill while you're away. Simple Installation The thermostat automatically programs itself. Just answer a few simple questions and you'll be up and running in no time. Whole-Home Range With a 200-foot range, 20 sensors with temperature, humidity, and occupancy detection can connect to your thermostat from throughout your home. Keep an eye on your home 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 warm.
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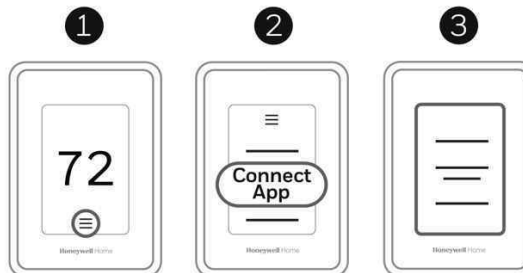
Connect to Wi-Fi

1. Open the Menu
2. Scroll to and select "Wi-Fi"
3. Tap "Choose Network"
4. Select a network

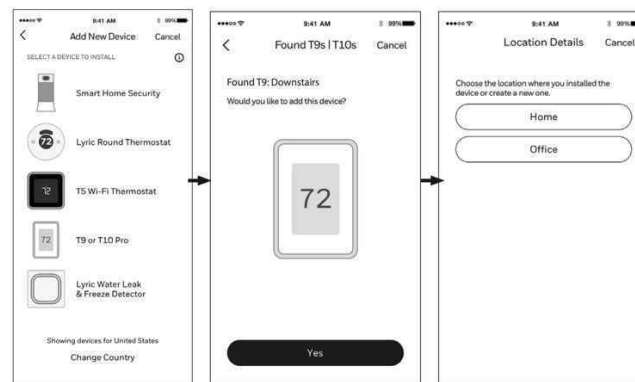


Connect to the Honeywell Home App

1. Open the Menu
2. Tap "Connect App"
3. Follow the on-screen instructions



1. Select thermostat model
2. Select location where the thermostat is installed or create a new location.



Enabling or disabling Wi-Fi and disconnecting and reconnecting to a Wi-Fi network

On thermostat

Enable Wi-Fi

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”
4. Verify “Enable” is selected.

Connecting to a Wi-Fi network

1. Verify Wi-Fi is enabled using steps above.
2. Touch “Choose network”
3. Select the network you wish to connect to from the list and enter the password.

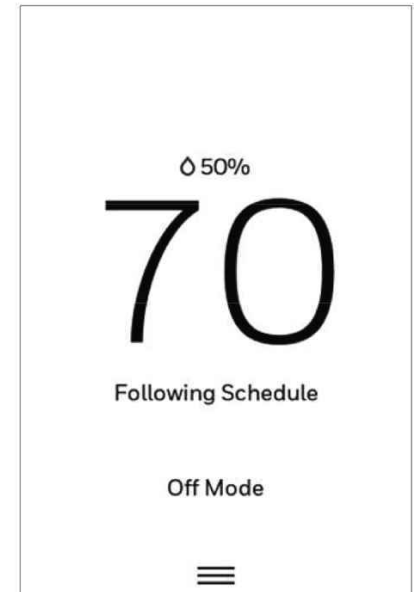
Disable Wi-Fi

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”
4. Verify “Enable” is de-selected.

Disconnecting from a Wi-Fi network

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”.
4. Touch “Choose network”
5. Select the network you wish to connect to from the list and enter the password.

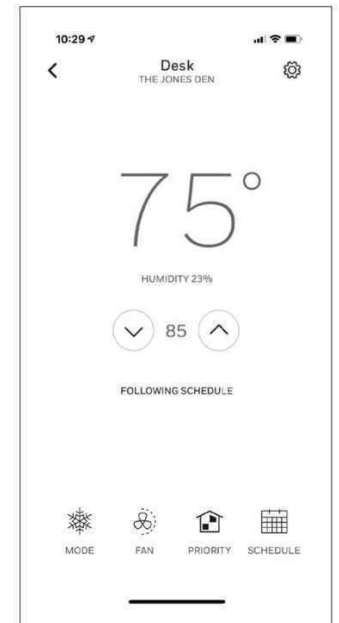
NOTE: For Wi-Fi troubleshooting, get help at <https://www.honeywellhome.com/questions/why-is-my-thermostat-wifi-not-working>



Scheduling through the app

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

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 - **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.
1. In the Honeywell Home 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.

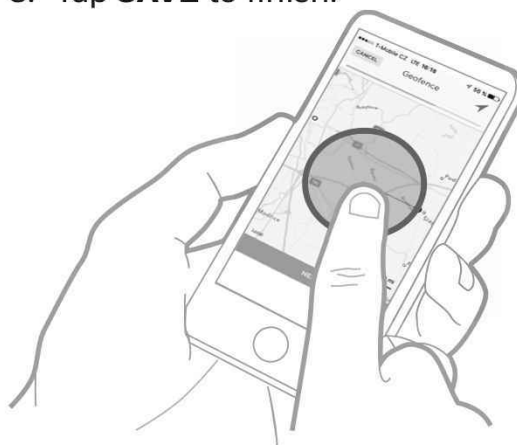


When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using **Away** Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen.

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.

To adjust the geofence boundary, follow the steps below.

1. Open the Honeywell Home app, tap the menu icon ≡ in the upper left corner and then tap **Geofence**.
2. Tap **Geofence Radius**, and when the map and current geofence appear, touch, hold and drag the black dot to adjust the geofence boundary.
3. Tap **SAVE** to finish.



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

A: Yes. Location-based temperature control (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 Honeywell Home 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.

<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

[11] receive geo-positioning data from the location-aware mobile device and automatically adjust a temperature value based on the geo-positioning data, including initiating at least one cooling or heating cycle for the HVAC system when the geo-positioning data is determined to indicate that the building is unoccupied by the user;	The Accused Products include one or more processors configured with electronic circuitry to receive geo-positioning data from the location-aware mobile device and automatically adjust a temperature value based on the geo-positioning data, including initiating at least one cooling or heating cycle for the HVAC system when the geo-positioning data is determined to indicate that the building is unoccupied by the user. For example, “Using geofence technology, the T9 Smart thermostat will automatically use your smartphone’s location, which can save you energy when you leave and make your home comfortable by the time you return.” Using Location-based temperature control, the Accused Products receive geo-positioning data from the location-aware mobile device (“location awareness provides precise performance from your smart home devices to respond to your needs throughout the day”) and automatically adjust a temperature value based on the geo-positioning data, including initiating at least one cooling or heating cycle for the HVAC system when the geo-positioning data is determined to indicate that the building is unoccupied by the user (<i>e.g.</i>, switching to Away temperatures when the geo-positioning data indicates the building is unoccupied because the user has left home).
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★★★★★ (3465)

T9 SMART THERMOSTAT WITH SENSOR

Smart Home
Integration



Auto Home/Away
Scheduling
(Geofencing)



Wi-Fi Type

2.4 and 5.0 GHz

Supports Additional
Sensors

Up to 20

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

GEOFENCING

Location awareness provides precise performance from your smart home devices to respond to your needs throughout the day.



<https://www.resideo.com/us/en/honeywell-home-app/>

Thermostat Features

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

- **Location-based temperature control:** Using geofence technology, the T9 Smart thermostat will automatically use your smartphone's location, which can save you 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.
- You can also choose not to set a schedule and adjust the thermostat manually
- **Schedule Using Sensors**
- Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
- Sensor Priority for each program period or when used manually.

Tip: The Honeywell Home app can be used to manage multiple thermostat and multiple users in a household.



Smart Alerts: The T9 Smart thermostat will send alerts for things like extreme indoor temperatures and reminders for things like filter changes.



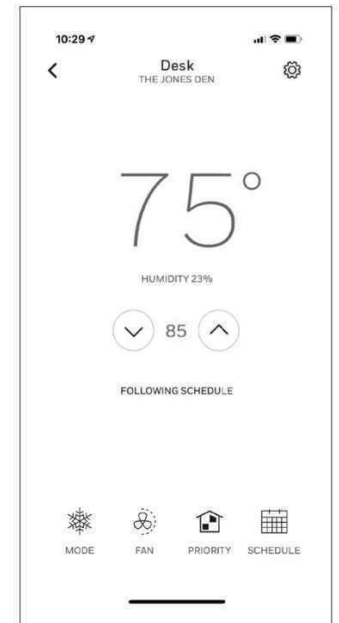
Auto change from heat to cool: When Auto mode is selected, the T9 Smart thermostat can automatically determine whether your home needs heating or cooling to reach the desired temperature.

	Getting the most from the T9 Smart Thermostat Prioritize Rooms 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 smartphone. Save Energy With geofencing, you can save money on the most expensive part of your energy bill while you're away. Simple Installation The thermostat automatically programs itself. Just answer a few simple questions and you'll be up and running in no time. Whole-Home Range With a 200-foot range, 20 sensors with temperature, humidity, and occupancy detection can connect to your thermostat from throughout your home. Keep an eye on your home 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 warm.
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Scheduling through the app

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

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 - **Sensor Priority:** Select which sensors are used for each program period or when used manually.
1. In the Honeywell Home 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.

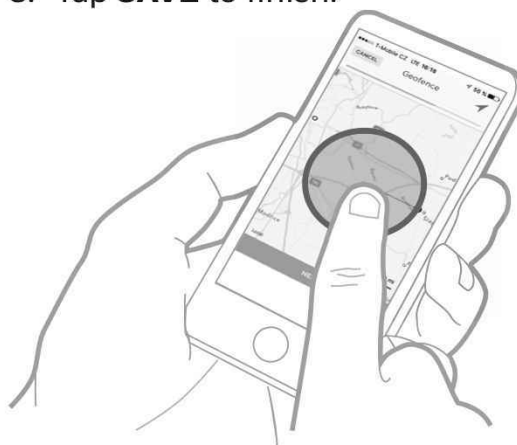


When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using **Away** Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen.

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.

To adjust the geofence boundary, follow the steps below.

1. Open the Honeywell Home app, tap the menu icon ≡ in the upper left corner and then tap **Geofence**.
2. Tap **Geofence Radius**, and when the map and current geofence appear, touch, hold and drag the black dot to adjust the geofence boundary.
3. Tap **SAVE** to finish.



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

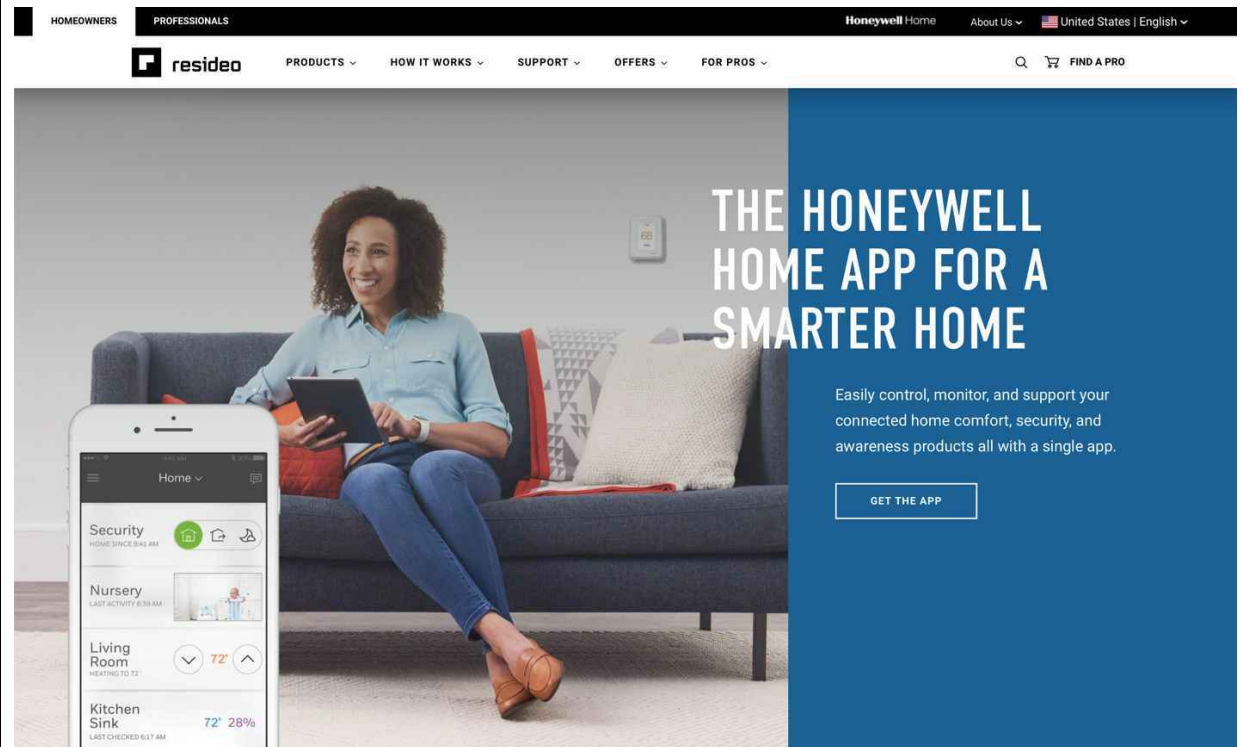
A: Yes. Location-based temperature control (geofence technology) will activate based on the last person who leaves and the first person to return. Each user will need to create their own Honeywell Home account with a login ID and password. Two users should not share the same account. Each user will then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

<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

[1m] electronic circuitry configured to allow the user to adjust a desired temperature for the HVAC system;

The Accused Products include electronic circuitry configured to allow the user to adjust a desired temperature for the HVAC system.

For example, the Accused Products allows for adjusting the desired temperature for the HVAC system from a mobile application:



DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

DOWNLOAD THE APP

Easily install and connect all of your connected devices using the Honeywell Home app.

MANAGE USAGE

Set up your dashboard to control and monitor your devices from anywhere.



DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

TAKE CONTROL

From all-in-one security to thermostat control, you can have full access to any of your connected home devices.



<https://www.resideo.com/us/en/honeywell-home-app/>

Getting the most from the T9 Smart Thermostat

Prioritize Rooms
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 smartphone.

Save Energy
With geofencing, you can save money on the most expensive part of your energy bill while you're away.

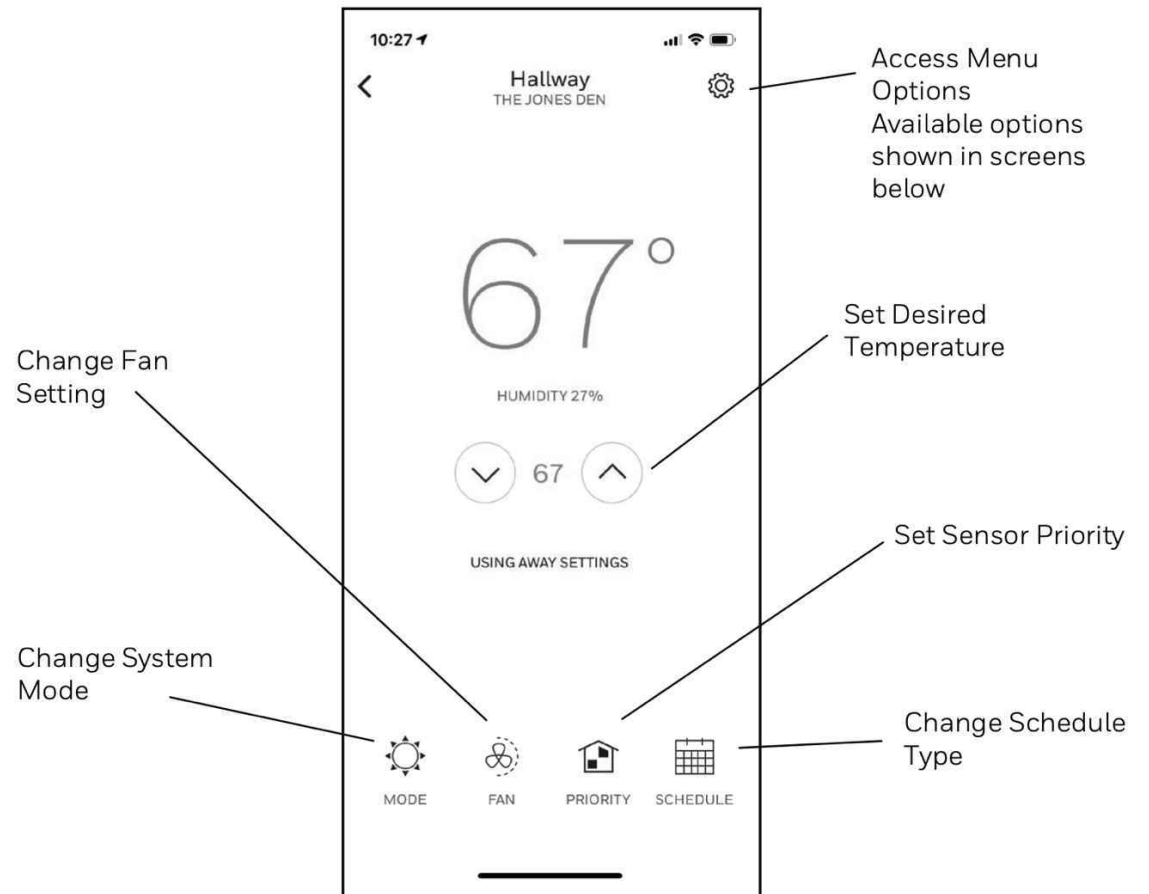
Simple Installation
The thermostat automatically programs itself. Just answer a few simple questions and you'll be up and running in no time.

Whole-Home Range
With a 200-foot range, 20 sensors with temperature, humidity, and occupancy detection can connect to your thermostat from throughout your home.

Keep an eye on your home
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 warm.

Using the Honeywell Home App

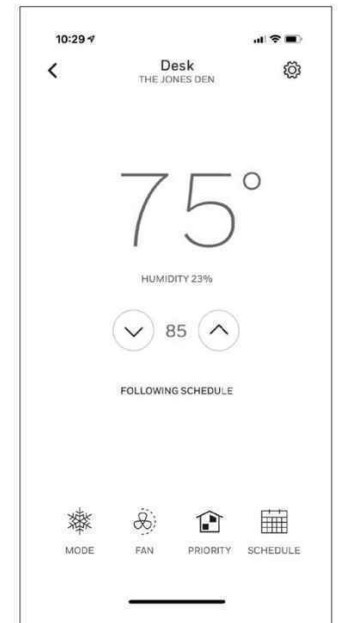
Home Screen



Scheduling through the app

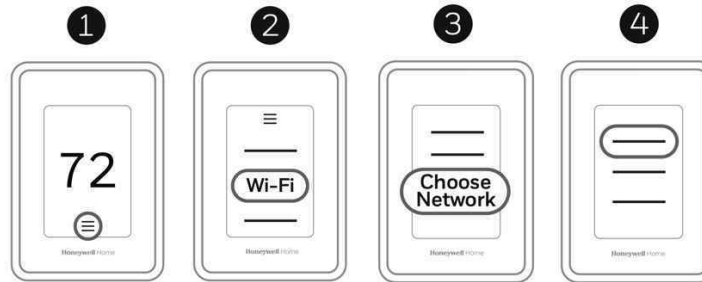
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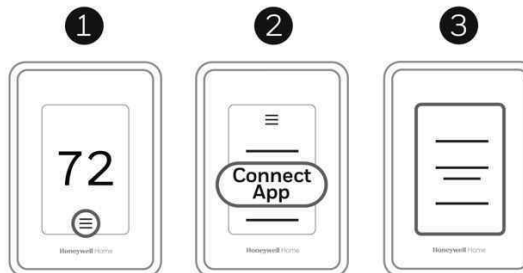
Connect to Wi-Fi

1. Open the Menu
2. Scroll to and select "Wi-Fi"
3. Tap "Choose Network"
4. Select a network

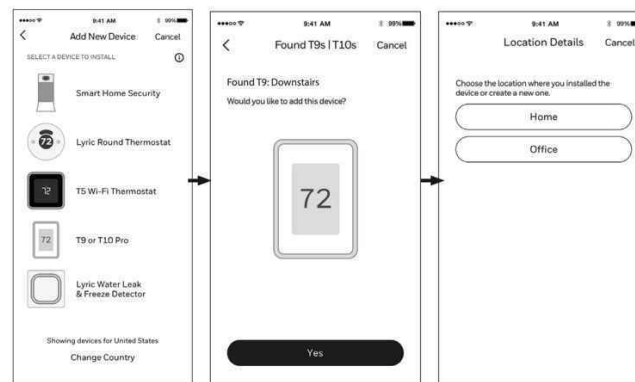


Connect to the Honeywell Home App

1. Open the Menu
2. Tap "Connect App"
3. Follow the on-screen instructions



1. Select thermostat model
2. Select location where the thermostat is installed or create a new location.



Enabling or disabling Wi-Fi and disconnecting and reconnecting to a Wi-Fi network

On thermostat

Enable Wi-Fi

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”
4. Verify “Enable” is selected.

Connecting to a Wi-Fi network

1. Verify Wi-Fi is enabled using steps above.
2. Touch “Choose network”
3. Select the network you wish to connect to from the list and enter the password.

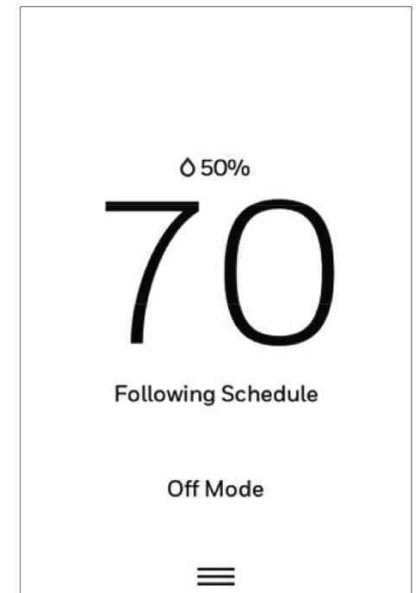
Disable Wi-Fi

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”
4. Verify “Enable” is de-selected.

Disconnecting from a Wi-Fi network

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select “Wi-Fi”.
4. Touch “Choose network”
5. Select the network you wish to connect to from the list and enter the password.

NOTE: For Wi-Fi troubleshooting, get help at <https://www.honeywellhome.com/questions/why-is-my-thermostat-wifi-not-working>



When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using **Away** Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen.

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.

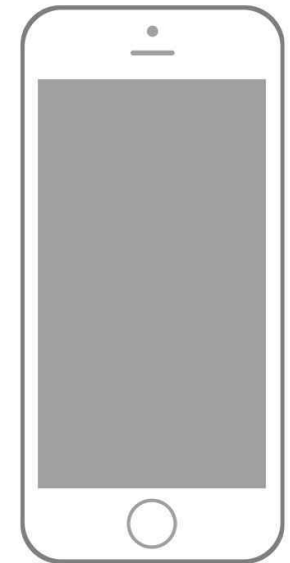
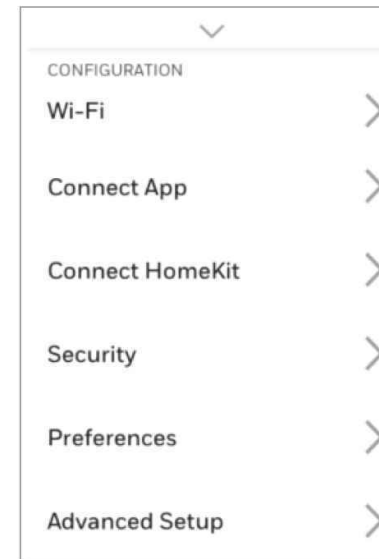
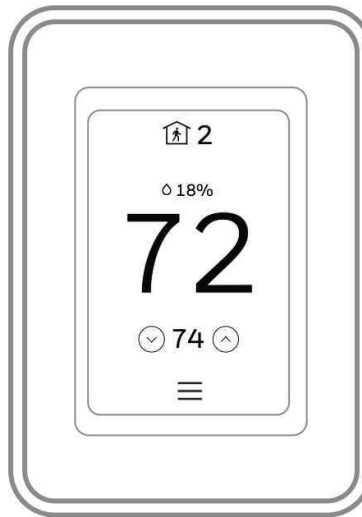
To adjust the geofence boundary, follow the steps below.

1. Open the Honeywell Home app, tap the menu icon ≡ in the upper left corner and then tap **Geofence**.
2. Tap **Geofence Radius**, and when the map and current geofence appear, touch, hold and drag the black dot to adjust the geofence boundary.
3. Tap **SAVE** to finish.



Apple® HomeKit® Setup

1. Touch Menu icon at the bottom of the T9 home screen.
2. Scroll down and select “Connect HomeKit”.
3. Use the Apple Home App and select “Add Accessory”. Scan the code shown on your thermostat with your phone.
4. Follow the instructions on your phone.



<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

As another example, the Accused Products allows for adjusting the desired temperature for the HVAC system from the thermostat:

Main Menu on Thermostat

From Home Screen, press the menu icon at bottom of the display (3 horizontal lines). If this is not shown at home screen, touch screen to wake display first.

Main Menu options

System mode (Available modes vary depending on how the thermostat was configured)

- Heat
- Off
- Cool
- Auto – Operation on page 9.
- Em Heat – Operation on page 9.

Fan (Fan setting not available for all system types)

- Auto (Fan only runs with a call for heat or cool)
- On (fan runs continuous)
- Circulate (fan runs randomly approx. 33% of the time)

Priority

If wireless indoor temperature/humidity/motion sensors are used, select which sensors are used for temperature control. You can choose active sensor (ones detecting motion) or manually select which sensors to use.

Schedule

- Create new schedule (Set a time-based schedule)
- Disable schedule
- Reset to default schedule

NOTE: To enable geofencing, use the Honeywell Home app.

Management:

Devices & Sensors

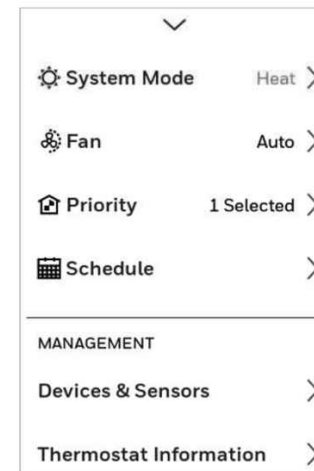
- View the temperature and humidity reading from Smart Room Sensors
- Identify a Smart Room Sensor
- Add a new Smart Room Sensor
- Remove a Smart Room Sensor

Thermostat information

- Mac Address
- IP Address
- Date Code
- Model Number
- Build Date
- Collection Version
- Wi-Fi Bootloader Version
- Wi-Fi Application Version

Equipment Status

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



Configuration:

- Wi-Fi
- Connect App
- Security
- Preferences
- Advanced Setup

Scroll down to see more options

Using Your Thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

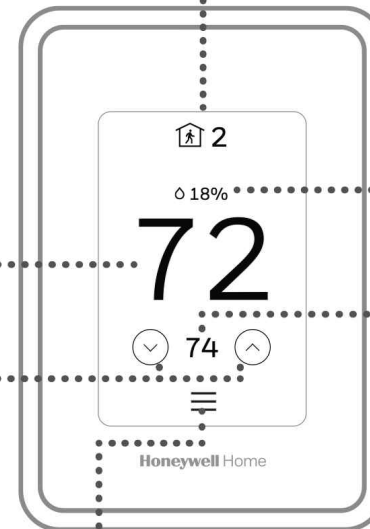
Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized.

Indoor Humidity

Displays the current indoor humidity.



Adjust Temperature

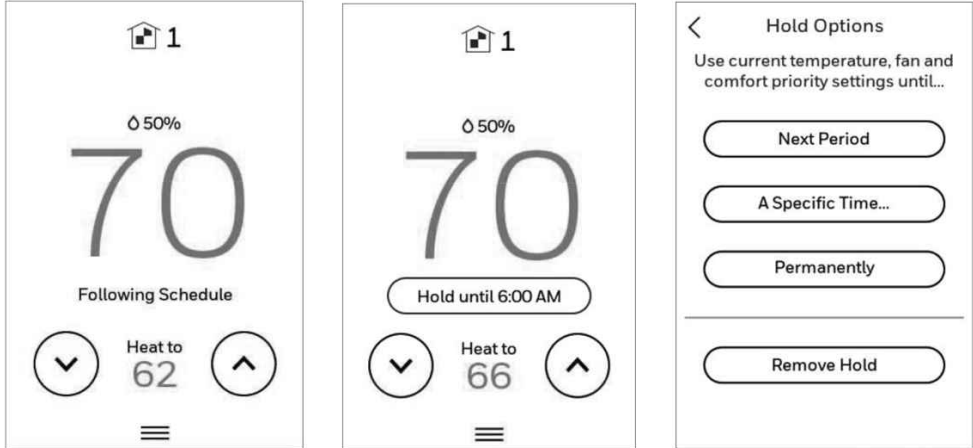
Touch the up and down arrows to set your desired temperature.

Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.

	Schedule override on Device With thermostat in heat, cool, auto, or em heat mode, press the up or down arrow to change the setpoint. (if thermostat is in auto mode, you need to press "heat to" or "cool to" first). If scheduling is enabled it will say "Hold until" and show a time at the bottom of the screen. Touch this. Display says "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. Press "Done" to return to Home screen.  The first screenshot shows a thermostat screen with a house icon and the number '1' at the top. The temperature is 70°F with a 50% humidity indicator. Below the temperature, it says 'Following Schedule'. At the bottom, there are up and down arrows, a 'Heat to 62' button, and a menu icon. The second screenshot is identical but shows a 'Hold until 6:00 AM' button instead of the 'Following Schedule' text. The third screenshot shows the 'Hold Options' menu with the text 'Use current temperature, fan and comfort priority settings until...' and four buttons: 'Next Period', 'A Specific Time...', 'Permanently', and 'Remove Hold'. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
[1n] electronic circuitry configured to analyze a plurality of data parameters specific to the user, including at least one data parameter relating to usage of the HVAC system at various times; and	The Accused Products include electronic circuitry configured to analyze a plurality of data parameters specific to the user, including at least one data parameter relating to usage of the HVAC system at various times. For example, on information and belief, the Accused Products analyze a plurality of data parameters specific to the user, including, but not limited to internal temperature, temperature set points, occupation and activity, external temperature, external weather, mobile device location, system usage, runtime, etc. as part of the learning features of the device including learning for automatic scheduling, and in order to provide Energy Reports.

MONTHLY HOME ENERGY REPORTS

Track your heating and cooling trends and compare your energy usage to similar homes in your area. Get tips to help you reduce your energy use and make your home more efficient and help save on your bills. [See Monthly Report](#)

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

	HOME ENERGY REPORT: YOUR MONTHLY TRENDS Last updated 9/30/20 Share:      The monthly energy report will compare how your heating and cooling systems ran over the the past two months. The Energy Report will also compare how the average temperatures changed in your area between months to help you understand how weather can affect your system usage. Weather data is based on the location provided during your initial setup of your thermostat. If your location is incorrect or you have recently moved, update your location settings. Example of the monthly trends section in the Honeywell Home Energy Report:  https://www.honeywellhome.com/us/en/support/home-energy-report-your-monthly-trends
[1o] electronic circuitry configured to generate and communicate usage metrics pertaining to the HVAC system over time; and	The Accused Products include electronic circuitry configured to generate and communicate usage metrics pertaining to the HVAC system over time. For example, the Accused Products generate and communicate usage metrics pertaining to the HVAC system over time, including, but not limited to internal temperature, temperature set points, occupation and activity, external temperature, external weather, mobile device location, system usage, runtime, etc. as part of the learning features of the device including learning for automatic scheduling, and in order to provide Energy Reports.

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Last updated 9/30/20

Share:     

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The Energy Report will also compare how the average temperatures changed in your area between months to help you understand how weather can affect your system usage.

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Example of the monthly trends section in the Honeywell Home Energy Report:



	https://www.honeywellhome.com/us/en/support/home-energy-report-your-monthly-trends
[1p] a compressor delay circuit configured to delay the start or stop of a compressor for the HVAC system and protect the compressor from rapid cycling.	Each of the Accused Products comprises and/or includes a compressor delay circuit configured to delay the start or stop of a compressor for the HVAC system and protect the compressor from rapid cycling. For example, the Accused Products include Compressor Protection to prevent equipment damage. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf

Claim 2

Issued Claim(s)	Public Documentation
2. The thermostat system of claim 1, wherein the one or more processors is further configured to determine whether the building is occupied or unoccupied.	The Accused Products include the thermostat system of claim 1, wherein the one or more processors is further configured to determine whether the building is occupied or unoccupied. For example, the Accused Products determine whether a building is occupied or unoccupied through the use of sensors:



★★★★★ (3465)

T9 SMART THERMOSTAT WITH SENSOR

Smart Home
Integration



Auto Home/Away
Scheduling
(Geofencing)



Wi-Fi Type

2.4 and 5.0 GHz

Supports Additional
Sensors

Up to 20

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

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

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Save Energy

With geofencing, you can save money on the most expensive part of your energy bill while you're away.

Simple Installation

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Whole-Home Range

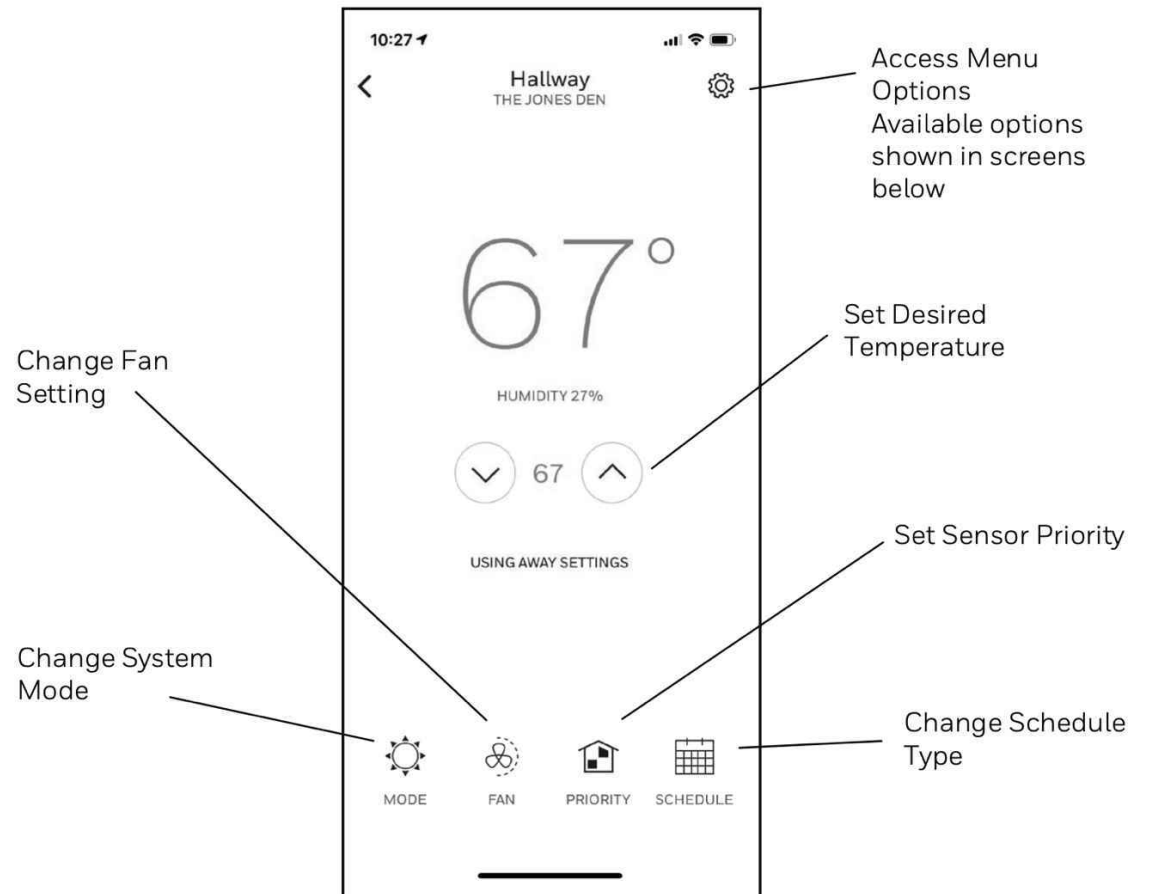
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Get customizable alerts on your mobile device when the basement is so cold a pipe could burst, or if the baby's room is getting warm.

Using the Honeywell Home App

Home Screen



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- Disable schedule
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NOTE: To enable geofencing, use the Honeywell Home app.

Management:

Devices & Sensors

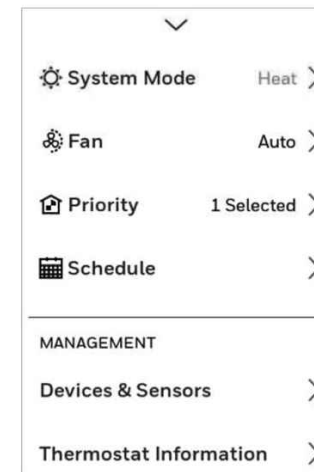
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- Build Date
- Collection Version
- Wi-Fi Bootloader Version
- Wi-Fi Application Version

Equipment Status

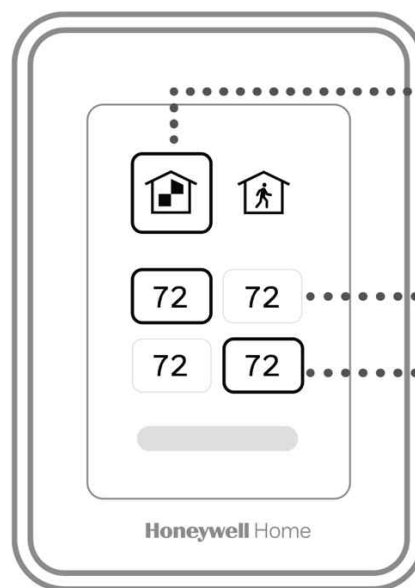
- System mode
- Heat stages (on or off)
- Cool stages (on or off)
- Fan on or off



Configuration:

- Wi-Fi
- Connect App
- Security
- Preferences
- Advanced Setup

Scroll down to see more options



Selected Rooms

Rooms you manually select create an average temperature in your home.

Unselected Room

Will not contribute to the average temperature.

Selected Room

Will contribute to the average temperature.

Active Rooms

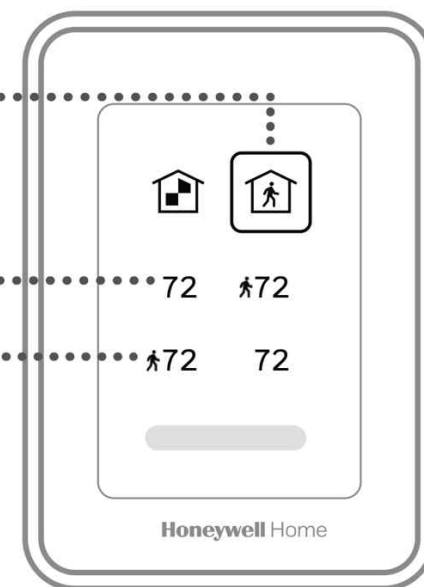
Rooms with detected motion are automatically selected to create an average temperature in your home.

Room without Activity

No motion is detected. Will not contribute to the average temperature.

Room with Activity

Motion is detected. Will contribute to the average temperature.



	Q: When using active rooms, how long are those rooms considered after motion has last been detected? A: The sensor has a dynamic occupancy algorithm based on how many motion events it sees within a certain timeframe. If someone walks through a room, then the room will be occupied for 10 minutes. If someone is in a room longer, then the timeout will be increased automatically. Q: How do the wireless indoor sensors detects 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 priority setting is set to 'Active Rooms', then any room that detects motion will become prioritized, and those Rooms' temperatures will be averaged together to be used as the effective indoor temperature. If people leave the room, then the sensor will need to wait for the timeout. 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: 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 timeframe. 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 technology. After sensing motion, the communication should take less than 3 seconds to assign the room priority, depending on battery and signal strength. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf As another example, the Accused Products can determine occupancy via geofencing or location awareness:
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★★★★★ (3465)

T9 SMART THERMOSTAT WITH SENSOR

Smart Home
Integration



Auto Home/Away
Scheduling
(Geofencing)



Wi-Fi Type

2.4 and 5.0 GHz

Supports Additional
Sensors

Up to 20

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

GEOFENCING

Location awareness provides precise performance from your smart home devices to respond to your needs throughout the day.



<https://www.resideo.com/us/en/honeywell-home-app/>

Thermostat Features

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

- **Location-based temperature control:** Using geofence technology, the T9 Smart thermostat will automatically use your smartphone's location, which can save you 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.
- You can also choose not to set a schedule and adjust the thermostat manually
- **Schedule Using Sensors**
- Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
- Sensor Priority for each program period or when used manually.

Tip: The Honeywell Home app can be used to manage multiple thermostat and multiple users in a household.



Smart Alerts: The T9 Smart thermostat will send alerts for things like extreme indoor temperatures and reminders for things like filter changes.



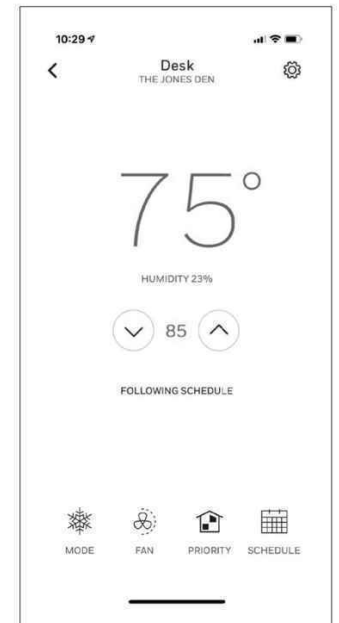
Auto change from heat to cool: When Auto mode is selected, the T9 Smart thermostat can automatically determine whether your home needs heating or cooling to reach the desired temperature.

	Getting the most from the T9 Smart Thermostat Prioritize Rooms 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 smartphone. Save Energy With geofencing, you can save money on the most expensive part of your energy bill while you're away. Simple Installation The thermostat automatically programs itself. Just answer a few simple questions and you'll be up and running in no time. Whole-Home Range With a 200-foot range, 20 sensors with temperature, humidity, and occupancy detection can connect to your thermostat from throughout your home. Keep an eye on your home 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 warm.
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Scheduling through the app

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

- **Location-based temperature control:** Using geofencing technology, the T9 Smart 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.
1. In the Honeywell Home 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.



When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using **Away** Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen.

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.

To adjust the geofence boundary, follow the steps below.

1. Open the Honeywell Home app, tap the menu icon ≡ in the upper left corner and then tap **Geofence**.
2. Tap **Geofence Radius**, and when the map and current geofence appear, touch, hold and drag the black dot to adjust the geofence boundary.
3. Tap **SAVE** to finish.



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

A: Yes. Location-based temperature control (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 Honeywell Home 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.

<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

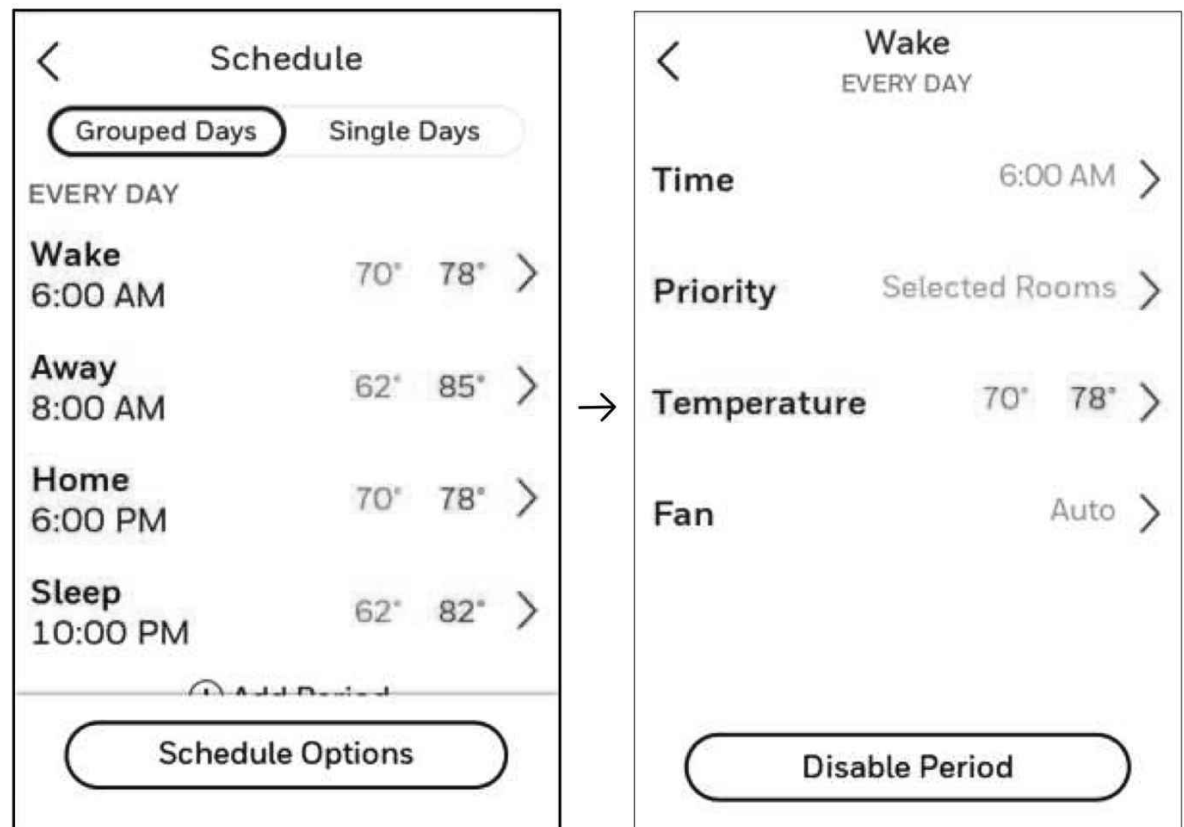
Claim 3

Issued Claim(s)	Public Documentation
3. The thermostat system of claim 2, further comprising an interface configured to allow the user to input that the building is currently unoccupied.	The Accused Products include the thermostat system of claim 2, further comprising an interface configured to allow the user to input that the building is currently unoccupied.. For example, the Accused Products include an interface which is configured to allow the user to input that the building is currently unoccupied. Thermostat Features Flexible scheduling: You can choose to use location-based temperature control (geofence technology), program a set schedule or use a combination of both to make sure your home is always comfortable. • Location-based temperature control: Using geofence technology, the T9 Smart thermostat will automatically use your smartphone's location, which can save you 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.

Setting a schedule on thermostat

Select the menu icon at the bottom of the homescreen display. Then select Schedule.

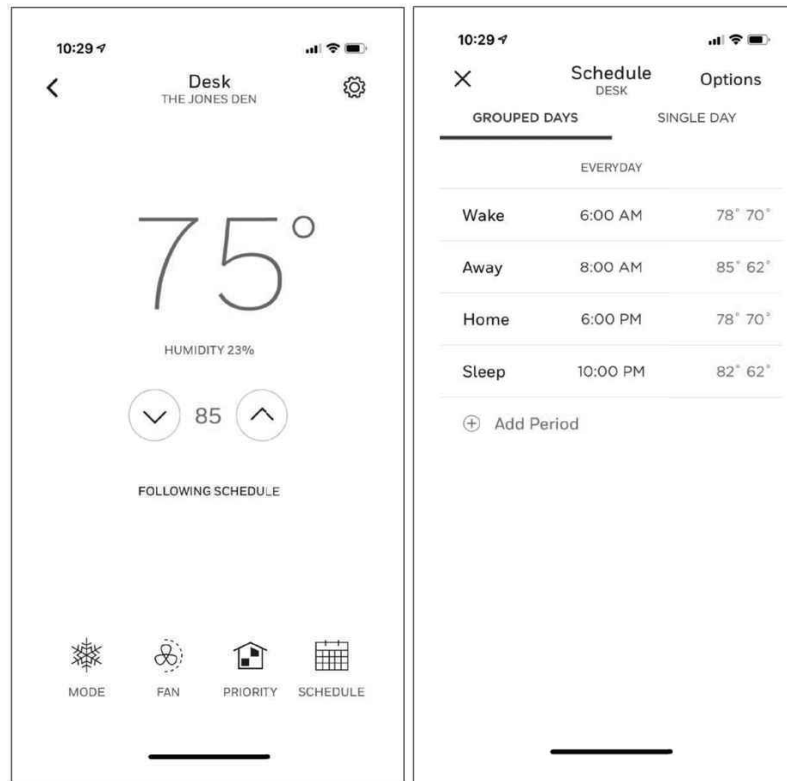
- If you want all days the same, select “grouped days.”
- Touch the period you wish to edit (Wake, Away, Home, or sleep).



Scheduling through the app

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

- **Location-based temperature control:** Using geofencing technology, the T9 Smart 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.



	When location-based temperature control is used, the thermostat active homescreen display will show "Using Home settings", "Using Away Settings" or "Using "sleep settings" below the room temperature. If you set an additional Sleep period in the Honeywell Home app, you'll also see the Following Schedule in the upper left corner of the thermostat screen. 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. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf As another example, the Accused Products connect to the internet via Wi-Fi and allows a mobile application to view data and adjust settings:
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★★★★★ (3465)

T9 SMART THERMOSTAT WITH SENSOR

Smart Home
Integration



Auto Home/Away
Scheduling
(Geofencing)



Wi-Fi Type

2.4 and 5.0 GHz

Supports Additional
Sensors

Up to 20

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

HOMEOWNERS

PROFESSIONALS

Honeywell Home

About Us

United States | English

PRODUCTS

HOW IT WORKS

SUPPORT

OFFERS

FOR PROS

Q

FIND A PRO

The Honeywell Home App for a Smarter Home

Easily control, monitor, and support your connected home comfort, security, and awareness products all with a single app.

GET THE APP

DOWNLOAD THE APP

MANAGE USAGE

TAKE CONTROL

DOWNLOAD THE APP

MANAGE USAGE

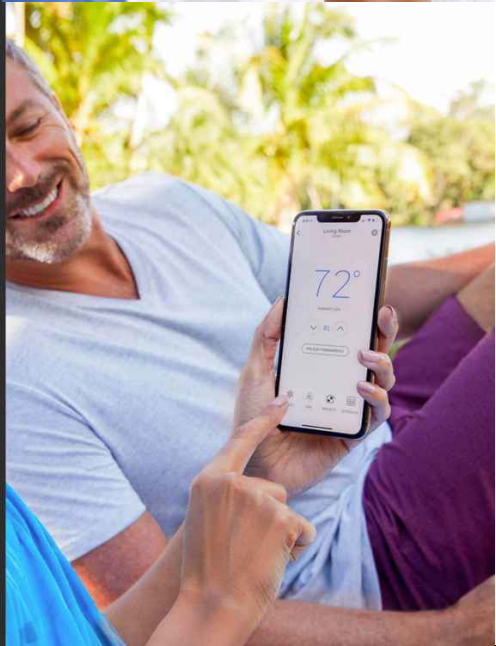
TAKE CONTROL

DOWNLOAD THE APP

Easily install and connect all of your connected devices using the Honeywell Home app.

MANAGE USAGE

Set up your dashboard to control and monitor your devices from anywhere.



DOWNLOAD THE APP

MANAGE USAGE

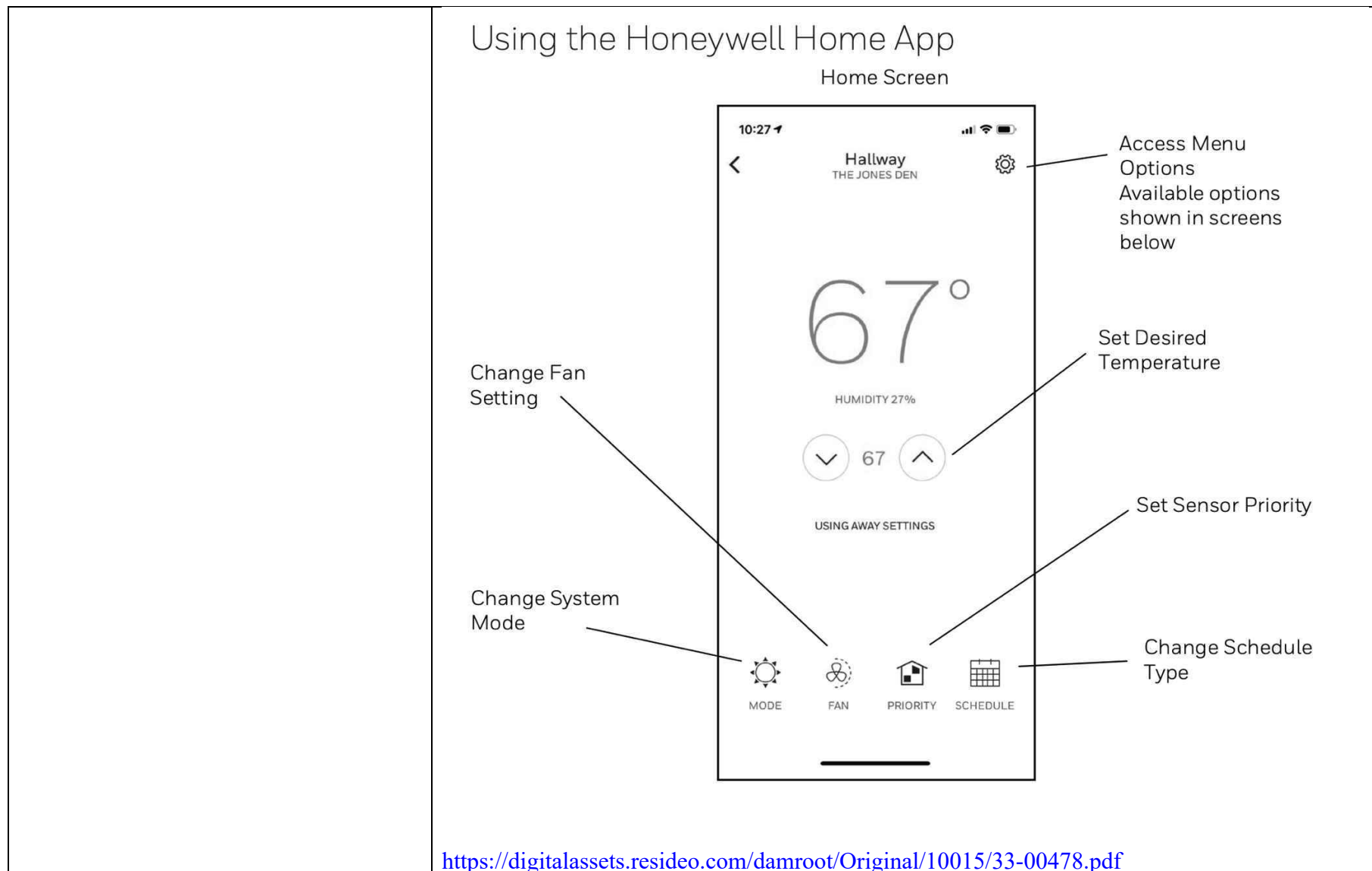
TAKE CONTROL

TAKE CONTROL

From all-in-one security to thermostat control, you can have full access to any of your connected home devices.



<https://www.resideo.com/us/en/honeywell-home-app/>



Claim 4

Issued Claim(s)	Public Documentation
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4. The thermostat system of claim 3, wherein the determination of whether the building is occupied or unoccupied by the one or more processors is based at least in part on a fourth data parameter received from a motion sensor.	The Accused Products include the thermostat system of claim 3, wherein the determination of whether the building is occupied or unoccupied by the one or more processors is based at least in part on a fourth data parameter received from a motion sensor. For example, the Accused Products include the ability to detect motion using sensors. https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u As another example, the T9 Smart thermostat with Smart Room sensor User Guide indicates: • Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat. Getting the most from the T9 Smart Thermostat Prioritize Rooms Prioritize a specific room or multiple rooms, or let comfort follow your move using built-in motion detection. Priority If wireless indoor temperature/humidity/motion sensors are used, select which sensors are used for temperature control. You can choose active sensor (ones detecting motion) or manually select which sensors to use. Q: How do the wireless indoor sensors detects motion. A: The sensors use a Passive Infrared Sensor (PIR) detector.
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Using Your Thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

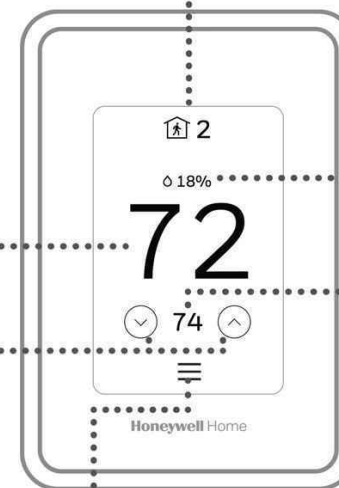
Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized.

Indoor Humidity

Displays the current indoor humidity.



Adjust Temperature

Touch the up and down arrows to set your desired temperature.

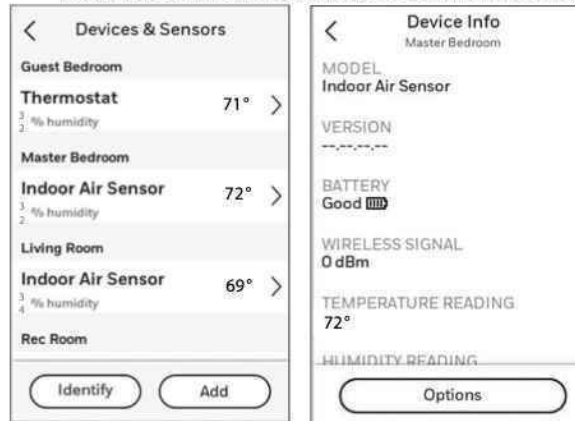
Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.

- View the sensors, add a sensor or identify a sensor
- To identify a sensor, touch "Identify" and then remove the cover from a sensor and press the button on that sensor. The thermostat will indicate the room name of that sensor.
- Touch a sensor name from the list to get information on that sensor



Smart Room Sensor information

When one or more wireless temperature/humidity/motion sensors have been linked to the thermostat by the installer, you can check the status of the sensor using the following steps.

Checking the status of a sensor

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and touch "Devices and Sensors".



Adding a wireless sensor

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and touch "Devices and Sensors".



4. Touch "Add"
5. Follow the on-screen directions to pair and name your new sensor

To Remove a Sensor from the T9 (from thermostat)

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select "Devices and Sensors"
4. Select the sensor you wish to remove. Select the "Options" button at the bottom of the display.
5. Touch "Delete".

To Remove a Sensor from the T9 (From the sensor)

1. Locate the sensor you wish to remove from your thermostat
2. Remove Sensor Cover and verify the batteries are inserted
3. With the cover off, Press and Hold the Connect button for 30 seconds. (The Sensor LED will switch from steady green to red.)
4. Release the Connect button. Your sensor will now be removed from the "Devices and Sensors" list.

If a sensor was previously paired with another T9 Smart thermostat, you will need to remove it from the previous thermostat prior to pairing it with your new T9 Smart thermostat. Sensors are only compatible with one thermostat at a time.

Active Rooms

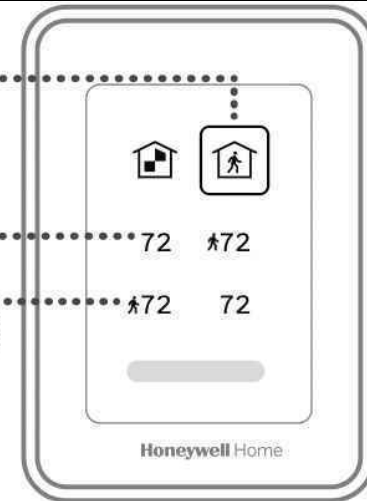
Rooms with detected motion are automatically selected to create an average temperature in your home.

Room without Activity

No motion is detected. Will not contribute to the average temperature.

Room with Activity

Motion is detected. Will contribute to the average temperature.



For questions regarding how motion-based priority work with multiple people in the house, and how long are rooms considered "Active" after motion has last been detected, see "Frequently Asked Questions (FAQs)" on page 31.

<https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf>

	SPECIFICATIONS	
	T9 SMART SENSOR	
	For Use With	T9 Smart thermostat
	Application	Indoor Humidity Sensing, Indoor Temperature Sensing, Occupancy Detection
	Color	White
	Product Height	2.6 in
	Product Length	2.6 in
	Product Width	0.77 in
	Warranty	2 Years
	Environmental Conditions Measured	Humidity, Motion, Temperature
	Mounting Type	Wall Mounted, Table Top
https://www.resideo.com/us/en/products/air/thermostat-accessories/t9-smart-sensor-rchtsensor-1pk-u/		

Claim 5

Issued Claim(s)	Public Documentation
5. The thermostat system of claim 1, wherein the one or more processors is further configured to receive a third data parameter from a first sensor, wherein the	The Accused Products include the thermostat system of claim 1, wherein the one or more processors is further configured to receive a third data parameter from a first sensor, wherein the third data parameter from the first sensor includes a measurement of at least one characteristic of a building within which the thermostat is located.

third data parameter from the first sensor includes a measurement of at least one characteristic of a building within which the thermostat is located.	For example, Accused Products include at least one temperature sensor that determines inside temperature and humidity measurements of the user's building. The Resideo T9 Thermostat webpage states, "Sense the temperatures in the places that matter most with the T9 Smart Thermostat. Focus on the rooms you choose by adding Smart Room Sensors and setting a schedule or let the sensors respond to your lifestyle." https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u As another example, the T9 Smart thermostat with Smart Room sensor User Guide indicates that temperature, humidity, and motion are provided by sensors: • Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
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Using Your Thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

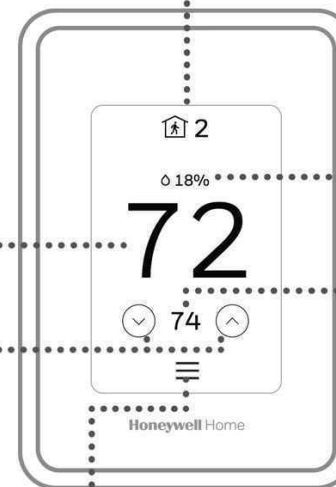
Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized.

Indoor Humidity

Displays the current indoor humidity.



Adjust Temperature

Touch the up and down arrows to set your desired temperature.

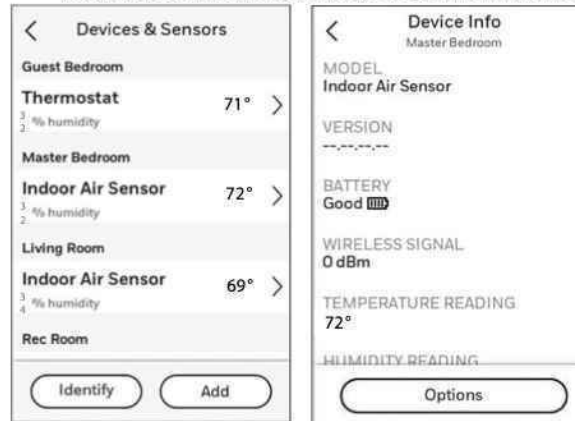
Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.

- View the sensors, add a sensor or identify a sensor
- To identify a sensor, touch "Identify" and then remove the cover from a sensor and press the button on that sensor. The thermostat will indicate the room name of that sensor.
- Touch a sensor name from the list to get information on that sensor



Smart Room Sensor information

When one or more wireless temperature/humidity/motion sensors have been linked to the thermostat by the installer, you can check the status of the sensor using the following steps.

Checking the status of a sensor

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and touch "Devices and Sensors".



Adding a wireless sensor

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and touch "Devices and Sensors".



4. Touch "Add"
5. Follow the on-screen directions to pair and name your new sensor

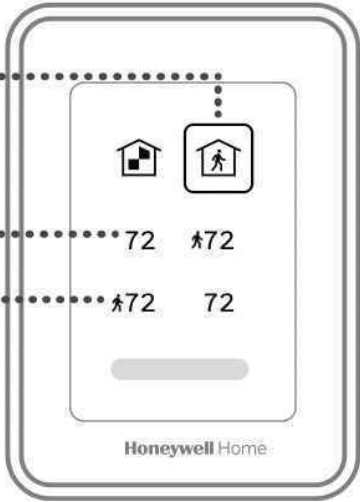
To Remove a Sensor from the T9 (from thermostat)

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select "Devices and Sensors"
4. Select the sensor you wish to remove. Select the "Options" button at the bottom of the display.
5. Touch "Delete".

To Remove a Sensor from the T9 (From the sensor)

1. Locate the sensor you wish to remove from your thermostat
2. Remove Sensor Cover and verify the batteries are inserted
3. With the cover off, Press and Hold the Connect button for 30 seconds. (The Sensor LED will switch from steady green to red.)
4. Release the Connect button. Your sensor will now be removed from the "Devices and Sensors" list.

If a sensor was previously paired with another T9 Smart thermostat, you will need to remove it from the previous thermostat prior to pairing it with your new T9 Smart thermostat. Sensors are only compatible with one thermostat at a time.

	Active Rooms Rooms with detected motion are automatically selected to create an average temperature in your home. Room without Activity No motion is detected. Will not contribute to the average temperature. Room with Activity Motion is detected. Will contribute to the average temperature.  For questions regarding how motion-based priority work with multiple people in the house, and how long are rooms considered "Active" after motion has last been detected, see "Frequently Asked Questions (FAQs)" on page 31. <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">INTERNAL SENSOR ERROR</td> <td>There is a failure of the sensor in the thermostat.</td> </tr> </table> https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf	INTERNAL SENSOR ERROR	There is a failure of the sensor in the thermostat.
INTERNAL SENSOR ERROR	There is a failure of the sensor in the thermostat.		

Claim 6

Issued Claim(s)	Public Documentation
6. The thermostat system of claim 5, wherein the third data parameter from the first sensor comprises a measurement of the humidity of the building.	The Accused Products include the thermostat system of claim 5, wherein the third data parameter from the first sensor comprises a measurement of the humidity of the building. For example, Accused Products include at least one sensor that determines inside temperature and humidity measurements of the user's building. The Resideo T9 Thermostat webpage states, "Sense the temperatures in the places that matter most with the T9 Smart Thermostat. Focus on the rooms you choose by adding Smart Room Sensors and setting a schedule or let the sensors respond to your lifestyle."

	https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u As another example, the T9 Smart thermostat with Smart Room sensor User Guide indicates that temperature, humidity, and motion are provided by sensors: • Up to 20 wireless indoor temperature/humidity/motion sensors per thermostat.
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Using Your Thermostat

The screen will wake up by pressing the center area of the displayed temperature.

Indoor Temperature

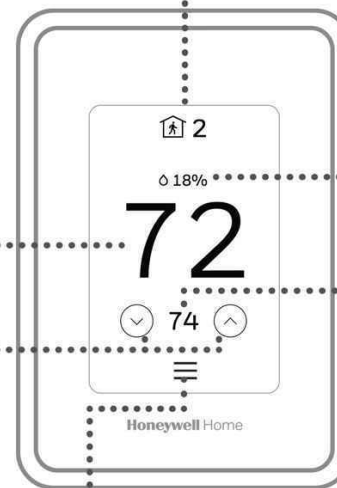
Displays the current indoor temperature.

Current Priority

Displays the type of priority and number of rooms being prioritized.

Indoor Humidity

Displays the current indoor humidity.



Adjust Temperature

Touch the up and down arrows to set your desired temperature.

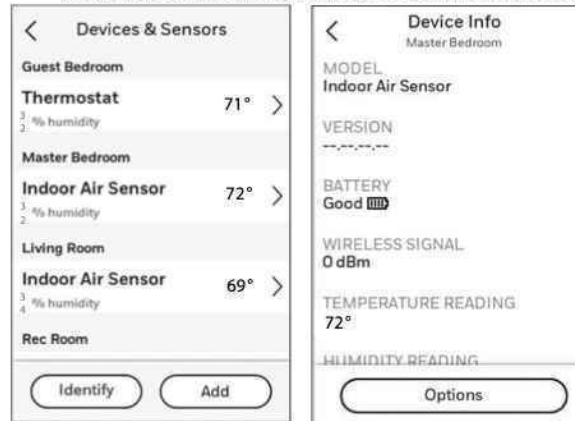
Menu

Contains features such as mode, fan, schedule, priority, and other thermostat settings.

Desired Temperature

Displays the desired temperature.

- View the sensors, add a sensor or identify a sensor
- To identify a sensor, touch "Identify" and then remove the cover from a sensor and press the button on that sensor. The thermostat will indicate the room name of that sensor.
- Touch a sensor name from the list to get information on that sensor



Smart Room Sensor information

When one or more wireless temperature/humidity/motion sensors have been linked to the thermostat by the installer, you can check the status of the sensor using the following steps.

Checking the status of a sensor

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and touch "Devices and Sensors".



Adding a wireless sensor

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and touch "Devices and Sensors".



4. Touch "Add"
5. Follow the on-screen directions to pair and name your new sensor

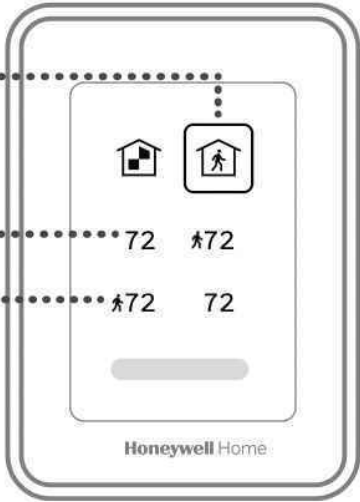
To Remove a Sensor from the T9 (from thermostat)

1. Touch any part of the display to wake the thermostat.
2. Touch the MENU icon at the bottom of the screen.
3. Scroll down and select "Devices and Sensors"
4. Select the sensor you wish to remove. Select the "Options" button at the bottom of the display.
5. Touch "Delete".

To Remove a Sensor from the T9 (From the sensor)

1. Locate the sensor you wish to remove from your thermostat
2. Remove Sensor Cover and verify the batteries are inserted
3. With the cover off, Press and Hold the Connect button for 30 seconds. (The Sensor LED will switch from steady green to red.)
4. Release the Connect button. Your sensor will now be removed from the "Devices and Sensors" list.

If a sensor was previously paired with another T9 Smart thermostat, you will need to remove it from the previous thermostat prior to pairing it with your new T9 Smart thermostat. Sensors are only compatible with one thermostat at a time.

	Active Rooms Rooms with detected motion are automatically selected to create an average temperature in your home. Room without Activity No motion is detected. Will not contribute to the average temperature. Room with Activity Motion is detected. Will contribute to the average temperature.  For questions regarding how motion-based priority work with multiple people in the house, and how long are rooms considered "Active" after motion has last been detected, see "Frequently Asked Questions (FAQs)" on page 31. <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">INTERNAL SENSOR ERROR</td> <td>There is a failure of the sensor in the thermostat.</td> </tr> </table> https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf	INTERNAL SENSOR ERROR	There is a failure of the sensor in the thermostat.
INTERNAL SENSOR ERROR	There is a failure of the sensor in the thermostat.		

Claim 9

Issued Claim(s)	Public Documentation
9. The thermostat system of claim 1, further comprising a memory configured to store historical values of the first data parameter and second data parameter.	The Accused Products include the thermostat system of claim 1, further comprising a memory configured to store historical values of the first data parameter and second data parameter. For example, on information and belief, the Accused Products store historical information about internal temperature, temperature set points, occupation and activity, external temperature, external weather, mobile device location, system usage, runtime, etc. as part of the learning features of the device including learning for automatic scheduling, and in order to provide Energy Reports.

MONTHLY HOME ENERGY REPORTS

Track your heating and cooling trends and compare your energy usage to similar homes in your area. Get tips to help you reduce your energy use and make your home more efficient and help save on your bills. [See Monthly Report](#)

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

HOME ENERGY REPORT: YOUR MONTHLY TRENDS

Last updated 9/30/20

Share: [f](#) [t](#) [in](#) [e](#) [p](#)

The monthly energy report will compare how your heating and cooling systems ran over the the past two months.

The Energy Report will also compare how the average temperatures changed in your area between months to help you understand how weather can affect your system usage.

Weather data is based on the location provided during your initial setup of your thermostat.If your location is incorrect or you have recently moved, [update your location settings.](#)

Example of the monthly trends section in the Honeywell Home Energy Report:

July Trends: Heating & cooling compared with last month

Heating
0 hrs more

Cooling
159 hrs more

On average, temperatures were 6° warmer than June 2018.

<https://www.honeywellhome.com/us/en/support/home-energy-report-your-monthly-trends>

Claim 10

Issued Claim(s)	Public Documentation
10. The thermostat system of claim 1, wherein the one or more processors is further configured to predict, based at least on the first data parameter, the second data parameter, and the first temperature setpoint data parameter, the time necessary for the HVAC system to operate in order for the building to reach the first temperature value by the first time value.	The Accused Products include the thermostat system of claim 1, wherein the one or more processors is further configured to predict, based at least on the first data parameter, the second data parameter, and the first temperature setpoint data parameter, the time necessary for the HVAC system to operate in order for the building to reach the first temperature value by the first time value. For example, the Accused Products include one or more processors which are further configured to predict, based at least on the first data parameter, the second data parameter, and the first temperature setpoint data parameter, the time necessary for the HVAC system to operate in order for the building to reach the first temperature value by the first time value. Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it.

	Advanced Features ADAPTIVE RECOVERY Over time, the T9 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” when it turns the system on early. Adaptive Intelligent 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. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
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Claim 11

Issued Claim(s)	Public Documentation
11. The thermostat system of claim 10, wherein the one or more processors' prediction of the time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value is further based on determining a rate of change value necessary for the building to reach the first temperature value by the first time value.	The Accused Products include the thermostat system of claim 10, wherein the one or more processors' prediction of the time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value is further based on determining a rate of change value necessary for the building to reach the first temperature value by the first time value. For example, the Accused Products include one or more processors' prediction of the time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value is further based on determining a rate of change value necessary for the building to reach the first temperature value by the first time value.  Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it.

	Advanced Features ADAPTIVE RECOVERY Over time, the T9 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” when it turns the system on early. Adaptive Intelligent 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. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
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Claim 12

Issued Claim(s)	Public Documentation
12. The thermostat system of claim 11, wherein the automatic adjustment of the temperature setpoint is based at least in part on the rate of change value.	The Accused Products include the thermostat system of claim 11, wherein the automatic adjustment of the temperature setpoint is based at least in part on the rate of change value. For example, the Accused Products automatically adjust the temperature setpoint based at least in part on the rate of change value.  Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it. Advanced Features ADAPTIVE RECOVERY Over time, the T9 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” when it turns the system on early. Adaptive Intelligent 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. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf

Claim 13

Issued Claim(s)	Public Documentation
13. The thermostat system of claim 10, wherein the automatic adjustment of the temperature setpoint is based at least in part on the prediction of time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value.	The Accused Products include the thermostat system of claim 10, wherein the automatic adjustment of the temperature setpoint is based at least in part on the prediction of time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value. For example, the Accused Products automatically adjust the temperature setpoint based at least in part on the prediction of time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value.  Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it. Advanced Features ADAPTIVE RECOVERY Over time, the T9 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” when it turns the system on early. Adaptive Intelligent 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. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf

Claim 14

Issued Claim(s)	Public Documentation
14. The thermostat system of claim 10, further comprising a memory configured to store historical values of the first data parameter and second data parameter; wherein the one or more processors' prediction of the time necessary for the	The Accused Products include the thermostat system of claim 10, further comprising a memory configured to store historical values of the first data parameter and second data parameter; wherein the one or more processors' prediction of the time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value is further based on historical values of the first data parameter and second data parameter.

HVAC system to operate in order to reach the first temperature value by the first time value is further based on historical values of the first data parameter and second data parameter.

For example, on information and belief, the Accused Products store historical information about internal temperature, temperature set points, occupation and activity, external temperature, external weather, mobile device location, system usage, runtime, etc. as part of the learning features of the device including learning for automatic scheduling, and in order to provide Energy Reports.

MONTHLY HOME ENERGY REPORTS

Track your heating and cooling trends and compare your energy usage to similar homes in your area. Get tips to help you reduce your energy use and make your home more efficient and help save on your bills. [See Monthly Report](#)

<https://www.resideo.com/us/en/products/air/thermostats/wifi-thermostats/t9-smart-thermostat-with-sensor-rcht9610wfs2003-u>

HOME ENERGY REPORT: YOUR MONTHLY TRENDS

Last updated 9/30/20

Share:     

The monthly energy report will compare how your heating and cooling systems ran over the the past two months.

The Energy Report will also compare how the average temperatures changed in your area between months to help you understand how weather can affect your system usage.

Weather data is based on the location provided during your initial setup of your thermostat. If your location is incorrect or you have recently moved, [update your location settings](#).

Example of the monthly trends section in the Honeywell Home Energy Report:



<https://www.honeywellhome.com/us/en/support/home-energy-report-your-monthly-trends>

For further example, on information and belief, the Accused Products' prediction of the time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value is further based on historical values of the first data parameter and second data parameter.



Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it.

	Advanced Features ADAPTIVE RECOVERY Over time, the T9 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” when it turns the system on early. Adaptive Intelligent 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. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf
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Claim 15

Issued Claim(s)	Public Documentation
15. The thermostat system of claim 14 wherein the one or more processors determines one or more intermediate temperature setpoints that have a temperature value between a current temperature of the building and the first temperature setpoint.	The Accused Products include the thermostat system of claim 14 wherein the one or more processors determines one or more intermediate temperature setpoints that have a temperature value between a current temperature of the building and the first temperature setpoint. For example, the Accused Products include one or more processors which determine one or more intermediate temperature setpoints that have a temperature value between a current temperature of the building and the first temperature setpoint.  Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it. Advanced Features ADAPTIVE RECOVERY Over time, the T9 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” when it turns the system on early. Adaptive Intelligent 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. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen.

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Claim 16

Issued Claim(s)	Public Documentation
16. The thermostat system of claim 14, wherein the automatic adjustment of the temperature setpoint is based at least in part on the prediction of time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value.	The Accused Products include the thermostat system of claim 14, wherein the automatic adjustment of the temperature setpoint is based at least in part on the prediction of time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value. For further example, the Accused Products automatically adjust the temperature setpoint based at least in part on the prediction of time necessary for the HVAC system to operate in order to reach the first temperature value by the first time value.  Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it. Advanced Features ADAPTIVE RECOVERY Over time, the T9 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” when it turns the system on early. Adaptive Intelligent 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. COMPRESSOR PROTECTION The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen. https://digitalassets.resideo.com/damroot/Original/10015/33-00478.pdf

Claim 17

Issued Claim(s)	Public Documentation
17. The thermostat system of claim 1, wherein the one or more processors is	The Accused Products include the thermostat system of claim 1, wherein the one or more processors is further configured to receive a fifth data parameter generated based at least in part

further configured to receive a fifth data parameter generated based at least in part on a previous operation of the HVAC system, wherein the fifth data parameter includes at least one performance characteristic of the HVAC system.

on a previous operation of the HVAC system, wherein the fifth data parameter includes at least one performance characteristic of the HVAC system.

For example, on information and belief, the Accused Products store historical information about internal temperature, temperature set points, occupation and activity, external temperature, external weather, mobile device location, system usage, runtime, etc. as part of the learning features of the device including learning for automatic scheduling, and in order to provide Energy Reports.

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Adaptive Intelligent Recovery: The T9 Smart thermostat learns your heating and cooling cycle times to make sure the system delivers the temperature you want, when you want it.

Advanced Features

ADAPTIVE RECOVERY

Over time, the T9 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” when it turns the system on early.

Adaptive Intelligent 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.

COMPRESSOR PROTECTION

The thermostat keeps the compressor off for a few minutes before restarting, to prevent equipment damage. During this “off” time, the message “Waiting for Equipment” is displayed on screen.

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