UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS WACO DIVISION

OLLNOVA TECHNOLOGIES LTD.,

Plaintiff,

Case No. 6:22-cv-00358-ADA

v.

JURY TRIAL DEMANDED

EMERSON ELECTRIC CO. and VERDANT ENVIRONMENTAL TECHNOLOGIES INC.,

Defendants.

PLAINTIFF'S PRELIMINARY DISCLOSURE OF ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS

Ollnova Technologies Ltd. ("Plaintiff" or "Ollnova") submits the following Preliminary Disclosure of Asserted Claims and Infringement Contentions to Defendants Emerson Electric Co. and Verdant Environmental Technologies Inc. (collectively, "Defendants" or "Emerson"). This disclosure is based on the information available to Ollnova as of the date of this disclosure, and Ollnova reserves the right to amend this disclosure to the full extent consistent with the Court's Rules and Orders.

I. Asserted Claims

Ollnova asserts that Emerson has infringed and continues to infringe at least the following claims of Ollnova's patents (collectively, the "Asserted Claims"):

A. U.S. Patent No. 8,224,282 ("the '282 Patent"):

- i. Emerson: Claims 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 20, and 21
- ii. Verdant: Claims 1, 2, 5, 7, 8, 11, 13, 14, and 17.
- B. U.S. Patent No. 7,746,887 ("the '887 Patent"):

i. Emerson: Claims 1, 3, 4, 5, 6, 7, 8, 14, 15, and 18.

ii. Verdant: N/A

Ollnova reserves the right to seek leave of court to add, delete, substitute, or otherwise amend this list of asserted claims should further discovery, the Court's claim construction, or other circumstances so merit.

II. Accused Products

Ollnova contends that the Asserted Claims are infringed by the various apparatuses used, made, sold, offered for sale, or imported into the United States by Emerson (the "Accused Products"). The Accused Products include at least the following, as well as products with reasonably similar functionality, and all varieties of these products:

• '282 Patent:

- Emerson: Sensi Smart Thermostat ST55 and Sensi Touch Smart Thermostat ST75.
- O Verdant: VX Series Thermostat and ZX Series Thermostat.

• '887 Patent:

- Emerson: Sensi Smart Thermostat ST55 and Sensi Touch Smart Thermostat
 ST75.
- O Verdant: N/A.

Ollnova reserves the right to amend this list of accused products, as well as other information contained in this document and the exhibits hereto, to incorporate new information learned during the course of discovery, including, but not limited to, the inclusion of newly released products, versions, or any other equivalent devices ascertained through discovery. Further, to the extent any accused infringing products have gone through or will go through name

changes, but were or will be used or sold with the same accused features, earlier corresponding products under different names also are accused.

III. Claim Charts

Claim charts identifying a location of every element of every asserted claim of the asserted Ollnova Patents within accused products are attached hereto as Exhibits A-C. Ollnova's analysis of the Accused Products is based on limited publicly available information and based on Ollnova's own investigation prior to any discovery in this action. In an effort to focus the issues, Ollnova identifies exemplary evidence for each claim limitation. The evidence cited for a particular limitation should be considered in light of the additional evidence cited for the other claim limitations. Ollnova reserves the right to rely on evidence cited for any particular limitation of an asserted claim for any other limitation asserted for that claim. Unless otherwise indicated, the information provided that corresponds to each claim element is considered to indicate that each claim element is found within each of the different variations of each respective Accused Products described above.

Ollnova reserves the right to amend these claim charts, as well as other information contained in this document and the exhibits hereto. Ollnova further reserves the right to amend these claim charts to incorporate new information learned during the course of discovery, including, but not limited to, information that is not publicly available or readily discernible without discovery or undue burden.

IV. Literal Infringement / Doctrine of Equivalents

Ollnova asserts that Emerson infringes the asserted claims listed above under at least 35 U.S.C. § 271(a), (b), (c), and/or (f). Ollnova contends that Emerson has directly infringed and continues to directly infringe the asserted claims by making, using, offering for sale, selling, and

importing into the United States the Accused Products. Ollnova also contends that Emerson (i) induces end users of the Accused Products to directly infringe the Asserted Claims and (ii) contributes to end users' direct infringement of the Asserted Claims. Ollnova asserts that, under the proper construction of the asserted claims and their claim terms, the limitations of the asserted claims of the asserted Ollnova patents are literally present in the accused products, as set forth in the claim charts attached hereto as Exhibits A-C. Ollnova contends that any and all elements found not to be literally infringed are infringed under the doctrine of equivalents because the differences between the claimed inventions and the accused instrumentalities, if any, are insubstantial.

Ollnova's contention is that each limitation is literally met, and necessarily also would be met under the doctrine of equivalents because there are no substantial differences between the Accused Products and the claims, in function, way, or result. If Emerson attempts to argue that there is no infringement literally and also no infringement under doctrine of equivalents and attempts to draw any distinction between the claimed functionality and the functionality in the Accused Products, then Ollnova reserves its right to rebut the alleged distinction as a matter of literal infringement and/or as to whether any such distinction is substantial under the doctrine of equivalents.

Ollnova reserves the right to amend its Infringement Contentions as to literal infringement or infringement under the doctrine of equivalents in light of new information learned during the course of discovery and the Court's claim construction.

V. Priority Dates

The Asserted Claims are entitled to a priority date of at least the following:

A. U.S. Patent No. 8,224,282: Each asserted claim of the '282 Patent is entitled to at least a priority date of March 19, 2008.

B. U.S. Patent No. 7,746,887: Each asserted claim of the '887 Patent is entitled to at least a priority date of April 12, 2006.

VI. Identification of Instrumentalities Practicing the Claimed Inventions

At this time, Ollnova is not relying on any assertion that any of its own instrumentalities practice the claims of the Asserted Patents.

VII. Document Production Accompanying Disclosure

Ollnova submits the following Document Production Accompanying Disclosure, along with an identification of the categories to which each of the documents corresponds.

Ollnova is presently unaware of any documents sufficient to evidence any discussion with, disclosure to, or other manner of providing to a third party, or sale of or offer to sell, the inventions recited in the Asserted Claims of the asserted patents prior to the application date or priority date for the asserted patents. A diligent search continues for documents and Ollnova reserves the right to supplement this response.

Ollnova is presently unaware of documents regarding the conception, reduction to practice, design, and development of each claimed invention of the asserted patents, which were created before the date of application for the asserted patent or the priority date identified above. A diligent search continues for documents and Ollnova reserves the right to supplement this response.

Ollnova identifies the following documents as being the file histories for the Asserted Patents: OLLNOVA-EME-00000106 - OLLNOVA-EME-00000425.

Dated: July 7, 2022 Respectfully submitted,

By: /s/ Brett Cooper

Brett E. Cooper (NY SBN 4011011)

bcooper@raklaw.com

Marc A. Fenster (CA SBN 181067)

mfenster@raklaw.com

Seth Hasenour (TX SBN 24059910)

shasenour@raklaw.com

Drew B. Hollander (NY SBN 5378096)

dhollander@raklaw.com

Reza Mirzaie (CA SBN 246953)

rmirzaie@raklaw.com

RUSS AUGUST & KABAT

12424 Wilshire Blvd. 12th Floor

Los Angeles, CA 90025 Phone: (310) 826-7474

Facsimile: (310) 826-6991

Attorneys for Plaintiff Ollnova Technologies

Limited

CERTIFICATE OF SERVICE

I certify that this document is being served upon counsel of record for Defendants on July

7, 2022 via electronic service.

/s/ *Drew Hollander*

Drew B. Hollander

EXHIBIT A

Emerson's Infringement of U.S. Patent No. 8,224,282 ("'282 Patent")

Accused Products

Emerson products, including without limitation the Emerson Sensi Smart Thermostat (ST55) and Sensi Touch Smart Thermostat (ST75) ("Accused Products"), infringe at least Claims 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 20, and 21 of the '282 Patent.

Claim 1

Claim 1	Exemplary Infringement Evidence			
[1pre] An automation	To the extent the preamble is limiting, each Accused Product includes an automation component			
component configured for	configured for wireless communication within a building automation system.			
wireless communication within a building automation system,	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75))			
the automation component	is an automation component configured for wireless communication within a building automation			
comprising:	system.			
	See, e.g.:			
	sen sı			
	MENU O O			
	6:10 PM Set to 71			
	Humidity - 40%			

SKU: ST75

ST75, Sensi™ Touch smart thermostat (Black)

The award-winning Sensi Touch smart thermostat focuses on providing the best homeowner experience including a large color touch screen, easy set-up, intuitive controls and compatibility with popular home automation systems.

Source: https://sensi.emerson.com/en-us/shop/sensi/sensi-sku-st75

- Monitor HVAC system: Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.
- Get reminders: Receive notifications for filter, UV lights, humidifier pad, and HVAC maintenance.
- View usage: Monitor current day and historical heating, cooling and fan runtimes right in the app.

Source: https://sensi.emerson.com/en-us/shop/sensi/products/sensi-sku-st75w



SAVE ABOUT 23% ON HVAC ENERGY¹

By adjusting the temperature using flexible scheduling, remote access, and geofencing, Sensi thermostat customers save about 23% on HVAC energy usage.

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

[1a] a multi-sensor package configured to detect a plurality of variables and generate sensor data for each detected variable; Each Accused Product comprises a multi-sensor package configured to detect a plurality of variables and generate sensor data for each detected variable.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) includes at least temperature and humidity sensors.

See, e.g.:

SENSI ALERT	TRIGGER
High temperature:	Above 99°F
Low temperature:	Below 45°F
High humidity:	Above 70%
Loss of heat/cool:	Temp goes up or down 5°F during cycle

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

HVAC MONITORING

Sensi smart thermostats deliver information homeowner's need to maintain their HVAC equipment:

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

	1	
		CIRCULATING FAN Helps maximize comfort and balance temperature throughout your home by increasing air circulation.
[1b] a wireless communications component;	Each Accused Product comp	HUMIDITY CONTROL Stay comfortable with humidification/ dehumidification control. uch-smart-thermostat-en-6309540.pdf (emerson.com) prises a wireless communications component. Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) nications component.
	See, e.g.:	
	Wi-Fi & security	Wi-Fi 802.11b/g/n @ 2.4 GHz
		WPA and WPA 2 encryption methods
	Source: Sensi Touch smart	thermostat Sensi US (emerson.com)

Home Screen Content

Toggle what you want to see on the display from this menu. You can display the current time, humidity or change from Fahrenheit to Celsius.

Wi-Fi

The Sensi app will instruct you how to connect Sensi to Wi-Fi. You can also turn Wi-Fi on or off at any time.

Turn Wi-Fi Off

If connecting to Wi-Fi is not an option, turn off Wi-Fi on the thermostat and manually set a time and a schedule from the unit.

- · Press Menu.
- · Press Wi-Fi.
- Toggle Wi-Fi "Off."
- · Press the back arrow to return to the main screen





[1c] a processor in communication with the wireless communications component and the sensor package; Source: <u>sensi-touch-smart-thermostat-manual-operation-guide-en-us-6356710.pdf (emerson.com)</u>
Each Accused Product comprises a processor in communication with the wireless communications

component and the sensor package.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) contains a processor that is in communication with the wireless communications component and the sensor package.

See, e.g.:



USAGE REPORTS: Monitor current day and historical heating, cooling and fan runtimes right in the app.

CONTROL FROM ANYWHERE: Remotely control your home comfort from your smartphone or tablet using the Sensi mobile app for Android and iOS devices.

SMART ALERTS: Sensi features smart alerts to help detect extreme temperature and humidity levels in your home.

CIRCULATING FAN: Air circulation may improve indoor air quality by helping to regulate temperature and prevent the buildup of particles and mold.

HVAC Compatibility

The Sensi Touch is compatible with most HVAC systems, but not all. If you didn't check compatibility prior to purchasing your new Sensi, don't tear into that box just yet.

Use the Sensi Compatibility Checker.

Does a Sensi Touch Require a C-Wire?

For proper functionality, Emerson Sensi Touch Smart Thermostats *do* require a C-wire. This is because all of its cool features (Wi-Fi connectivity, geofencing, colorful touchscreen display...) use a *lot* of power! By using a negative charge to supply continuous power to your Sensi, a C-wire ensures its display, internal processor, and Wi-Fi connectivity remain up and running.

Read More about Sensis and C-Wires

Source: Emerson Sensi Touch Smart Thermostat (poweredbyefi.org)

[1d] a memory in communication with the processor, the memory configured to store sensor data provided by the sensor Each Accused Product comprises a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor.

package and computer
readable instructions which are
executable by the processor;
wherein the computer readable
instructions are programmed
to:

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) contains memory that stores sensor data that is collected by the sensor package. For example, the Emerson Sensi Touch Smart Thermostat (ST75) contains memory that stores sensor data related to at least temperature and humidity.

See, e.g.:



Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

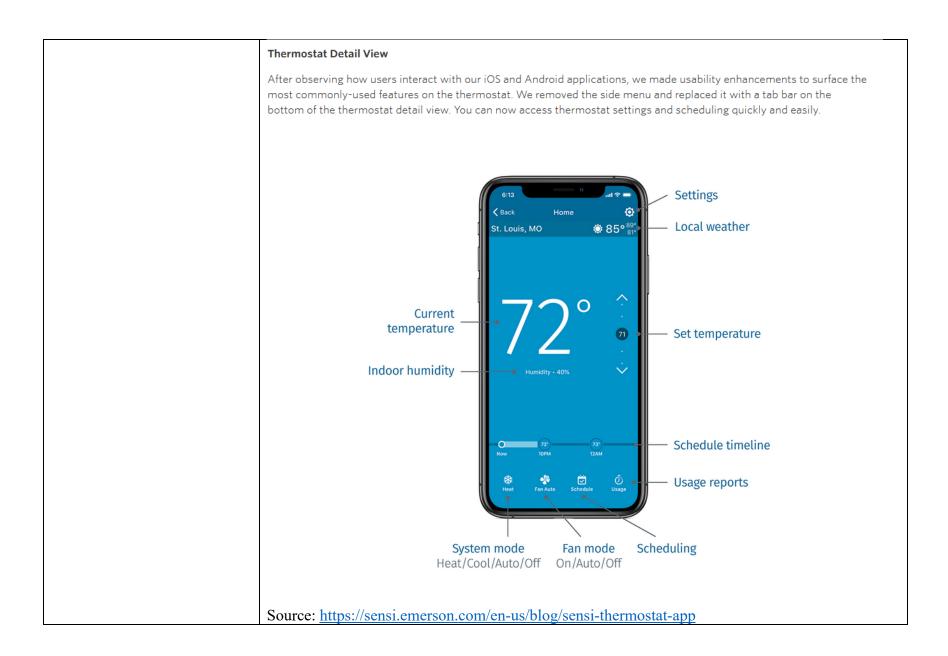
SENSI ALERT	TRIGGER
High temperature:	Above 99°F
Low temperature:	Below 45°F
High humidity:	Above 70%
Loss of heat/cool:	Temp goes up or down 5°F during cycle

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

[1e] receive sensor control information related to sensor data in control at a second automation component in communication with the

In each Accused Product, the computer readable instructions are programmed to receive sensor control information related to sensor data in control at a second automation component in communication with the building automation system.

building automation system;	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat			
and	(ST75)) can receive sensor control information related to sensor data in control from a device			
	running the Sensi app, a second automation component. The user can set the target temperatu			
	within the Sensi app.			
	See, e.g.:			





Source: https://sensi.emerson.com/documents/sensi-touch-smart-thermostat-manual-operation-guide-en-us-5242446.pdf

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) can receive sensor control information related to sensor data in control from a device running the Sensi app, a second automation component. Temperature limits for the thermostat can be set using Sensi app.

See, e.g.:

What are Temperature Limits?

Temperature Limits allow building and facility managers to set limits to set point adjustments. This allows someone to set a range of temperatures that occupants can adjust between. This helps balance occupant comfort and reduce energy inefficiencies.

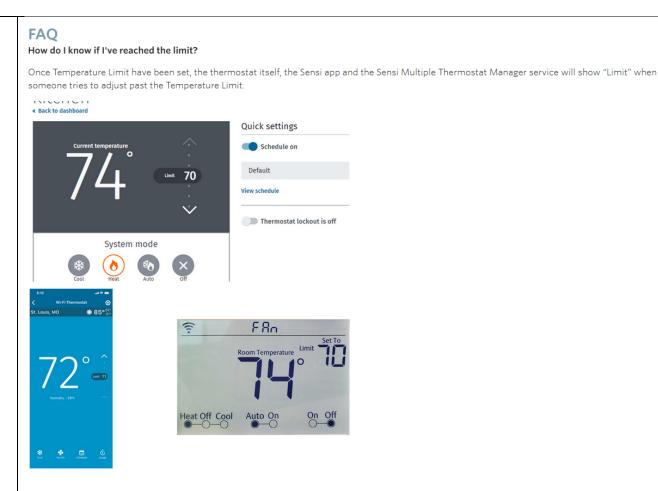
Using the Sensi app

How can I set Temperature Limits in the Sensi app?

- · Open the Sensi app.
- · Tap on your thermostat name.
- . Tap on the settings gear.
- Tap on System settings.
- Find Temperature Limits and adjust your Cooling Minimum Setpoint and your Heating Maximum Setpoint as necessary with the + or buttons.

Example: If the homeowner does not want an occupant to be able to cool the home less than 71°F, adjust the Cooling Min Setpoint to 71.

Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq



Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) can receive sensor control information related to sensor data in control from the cloud, a second automation component. The user can set the target temperature within the Sensi app, which relays this set temperature to the cloud. The cloud then sends the sensor control information to the thermostat for the sensor data in control (e.g., the temperature).

See, e.g.: Thermostat Detail View After observing how users interact with our iOS and Android applications, we made usability enhancements to surface the most commonly-used features on the thermostat. We removed the side menu and replaced it with a tab bar on the bottom of the thermostat detail view. You can now access thermostat settings and scheduling quickly and easily. Settings **S** Back 0 © 85° 89° Local weather St. Louis, MO Current temperature Set temperature **Indoor humidity** Schedule timeline Usage reports System mode Scheduling Fan mode Heat/Cool/Auto/Off On/Auto/Off Source: https://sensi.emerson.com/en-us/blog/sensi-thermostat-app



For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) can receive sensor control information related to sensor data in control from the cloud, a second automation component. Temperature limits for the thermostat can be set using the Sensi app, which are relayed to the cloud, a second automation component. The Emerson Sensi Touch Smart Thermostat (ST75) can receive sensor control information (e.g., temperature limits) from the cloud and display them on the thermostat's screen.

See, e.g.:

What are Temperature Limits?

Temperature Limits allow building and facility managers to set limits to set point adjustments. This allows someone to set a range of temperatures that occupants can adjust between. This helps balance occupant comfort and reduce energy inefficiencies.

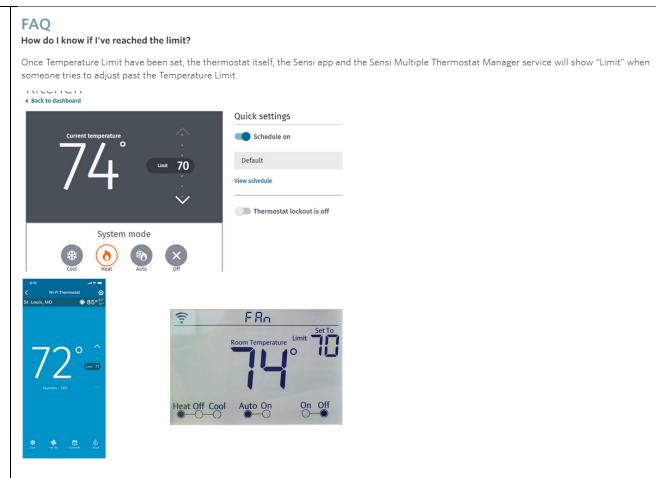
Using the Sensi app

How can I set Temperature Limits in the Sensi app?

- · Open the Sensi app.
- Tap on your thermostat name.
- · Tap on the settings gear.
- Tap on System settings.
- Find Temperature Limits and adjust your Cooling Minimum Setpoint and your Heating Maximum Setpoint as necessary with the + or buttons.

Example: If the homeowner does not want an occupant to be able to cool the home less than 71°F, adjust the Cooling Min Setpoint to 71.

Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq



Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) can receive sensor control information related to sensor data in control from a device running the Sensi app, a second automation component. The sensor control information is based on the location of the wireless device using the geofencing feature in the Sensi app.

See, e.g.:

Dashboard

The app is now easier to navigate through multiple thermostats thanks to a dashboard view - from one thermostat to many, you can control your comfort with a few taps. To access more detailed information about a thermostat, tap on the thermostat name and be taken to the thermostat detail view.

Geofencing

For those living an unprogrammed life, we created the Geofencing feature. By using your phone's location relative to your individual thermostat's location, we can automatically set your mode to home or away, creating a 3-degree offset to save you money while you're gone. You will need to enable the geofencing feature for each thermostat in your home.

Read more about using the **Geofencing** feature.

Source: https://sensi.emerson.com/en-us/blog/sensi-thermostat-app

What is geofencing, and how does it work with Sensi thermostats?

Geofencing is a way to automatically control your Sensi thermostat based on your location. When you travel 3 miles away from your home the Sensi app will signal for your thermostat to change set points and save energy. Your thermostat will lower the temperature 3 degrees when you are in heat mode or raise 3 degrees in cool mode. When you travel back to within 3 miles from your home, your thermostat will be set back to the temperature you had selected before you left.

If you're a busy person with no set schedule, the geofencing feature allows you to be more efficient with your heating and cooling energy usage without needing to remember to adjust your thermostat.

If you tend to have a predictable schedule from day-to-day or week-to-week, the scheduling feature may fit your lifestyle better.

If you'd like to turn on Geofencing, open the Sensi app.

- Tap on your thermostat name.
- Tap Scheduling.
- Tap Schedule type.
- Tap Geofencing.

 $Source: \ \underline{https://sensi.emerson.com/en-us/support/what-is-geofencing-and-how-does-it-work-with-sensi-thermostats}$

Choosing between scheduling and geofencing.

You can choose to have your Sensi thermostat on a programmed schedule or in geofencing mode (or no schedule). Only one option can be turned on a time.

If you're a busy person with no set schedule, the geofencing feature allows you to be more efficient with your heating and cooling energy usage without needing to remember to adjust your thermostat.

If you tend to have a predictable schedule from day to day and week to week, the scheduling feature may fit your lifestyle better.

Source: https://sensi.emerson.com/en-us/support/choosing-between-scheduling-and-geofencing

[1f] communicate a portion of the stored sensor data corresponding to the received sensor control information to	In each Accused Product, the computer readable instructions are programmed to communicate a portion of the stored sensor data corresponding to the received sensor control information to the second automation component.
the second automation component.	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) communicates stored sensor data (including data related to temperature), corresponding to the received sensor control information to the device running the Sensi app, the second automation component. See, e.g.: The current temperature is displayed on the Sensi app:

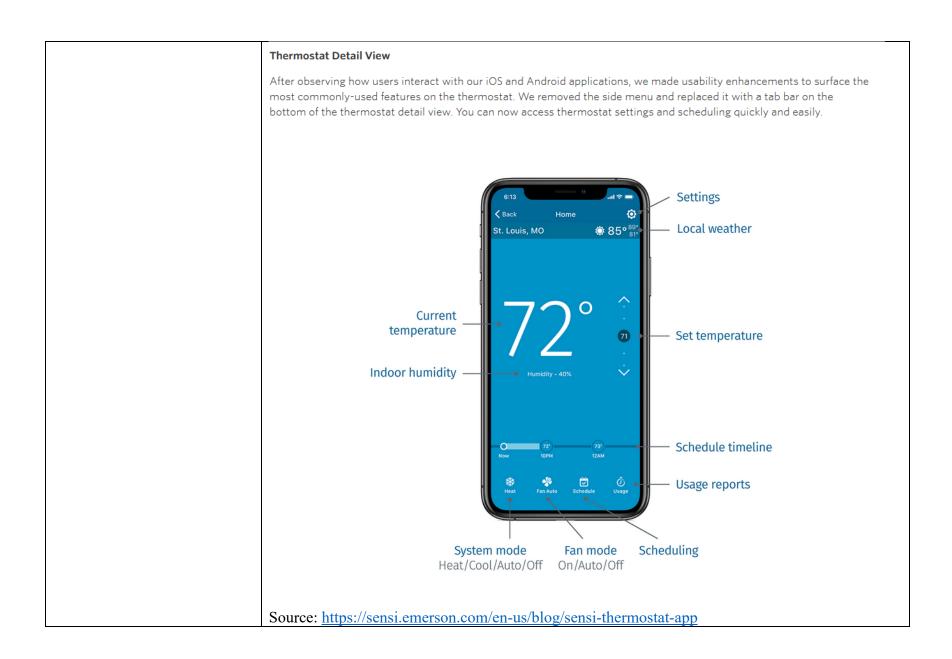
Thermostat Detail View

After observing how users interact with our iOS and Android applications, we made usability enhancements to surface the most commonly-used features on the thermostat. We removed the side menu and replaced it with a tab bar on the bottom of the thermostat detail view. You can now access thermostat settings and scheduling quickly and easily.



Source: https://sensi.emerson.com/en-us/blog/sensi-thermostat-app

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) communicates stored sensor data (including data related to temperature), corresponding to the received sensor control information to the cloud, the second automation component. The Sensi app can then receive the stored sensor data that was communicated to the second automation component.
See, e.g.:



Claim 2

Claim 2	Exemplary Infringement Evidence
[2] The automation component	Each Accused Product comprises the automation component of claim 1, wherein the sensor
of claim 1, wherein the sensor	package includes one or more sensors selected from the group consisting of: a temperature sensor;
package includes one or more	a humidity sensor; a carbon monoxide sensor; a carbon dioxide sensor and a volatile organic
sensors selected from the	compound sensor.
group consisting of: a	
temperature sensor; a humidity	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat
sensor; a carbon monoxide	(ST75)) has a temperature sensor and a humidity sensor.
sensor; a carbon dioxide sensor	
and a volatile organic	See, e.g.:
compound sensor.	

Explore the enhanced features and upgraded design

Sensi Touch smart thermostat gives you a modern design and convenient updated features for home comfort control on your terms.



Get reminders

Back glow

Receive notifications for filter, UV lights, humidifier pad, and HVAC maintenance.

Perfect for night time or low lighting.

Automatic upgrades

As existing features are enhanced and new features are released, your thermostat software is kept up-todate automatically.

Humidity reading

Tracks humidity for total awareness of your home's atmosphere.

Color shift

App and thermostat change color to let you know at a glance whether your system is heating or cooling.

Brightness adjust

Large backlit display offers flexible lighting options.

Source: https://sensi.emerson.com/en-us/products/touch-thermostat

Claim 3

Claim 3	Exemplary Infringement Evidence		
[3] The automation	Each Accused Product comprises the automation component of claim 1, wherein the computer		
component of claim 1,	readable instructions are further programmed to: identify sensor values within the sensor data that		
wherein the computer readable	exceed a corresponding change-of-value threshold.		

instructions are further programmed to: identify sensor values within the sensor data that exceed a corresponding change-ofvalue threshold. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) sends smart alerts when the temperature exceeds the high home temperature threshold. For example, when the humidity exceeds the high humidity threshold the "High Humidity" alert is sent.

See, e.g.:

Smart Alerts

Are there smart alerts available with Sensi thermostats?

Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:

Alert Name	Triggered	
High Home Temperature	Temperature greater than 99°F	
Low Home Temperature	Temperature less than 45°F	
High Humidity	Humidity greater than 70%	
Loss of Heating	Room temperature goes down 5°F during a heating demand	
Loss of Cooling	Room temperature goes up 5°F during a cooling demand	

High and low temperatures, as well as humidity smart alerts, are not adjustable. Loss of heating or loss of cooling smart alerts are based on your Sensi temperature setting. The email is sent to the email address registered to your Sensi account. If the condition that triggers a smart alert still exists after a period of time, you will receive follow up emails. Some alerts re-trigger daily, while others, weekly.

Source: https://sensi.emerson.com/en-us/support/email-alerts-related-to-my-hvac-system

www.sensicomfort.com





Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.

Claim 4

Claim 4	Exemplary Infringement Evidence			
[4] The automation component of claim 1, wherein the computer readable instructions are further programmed to: set an identification flag for each identified sensor value.	Each Accused Product comprises the automation component of claim 1, wherein the computer readable instructions are further programmed to: set an identification flag for each identified sensor value. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) sends smart alerts that include identification flags for each type of alert. See, e.g.: Smart Alerts			
	Are there smart alerts available with Sensi thermostats? Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:			
		Alert Name	Triggered	
		High Home Temperature	Temperature greater than 99°F	
		Low Home Temperature	Temperature less than 45°F	
		High Humidity	Humidity greater than 70%	
		Loss of Heating	Room temperature goes down 5°F during a heating demand	
		Loss of Cooling	Room temperature goes up 5°F during a cooling demand	
	temperature setting. The email is sent period of time, you will receive follow	to the email address registered up emails. Some alerts re-trigg	adjustable. Loss of heating or loss of cooling sdu to your Sensi account. If the condition that treer daily, while others, weekly.	iggers a smart alert still exists after a

www.sensicomfort.com





Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

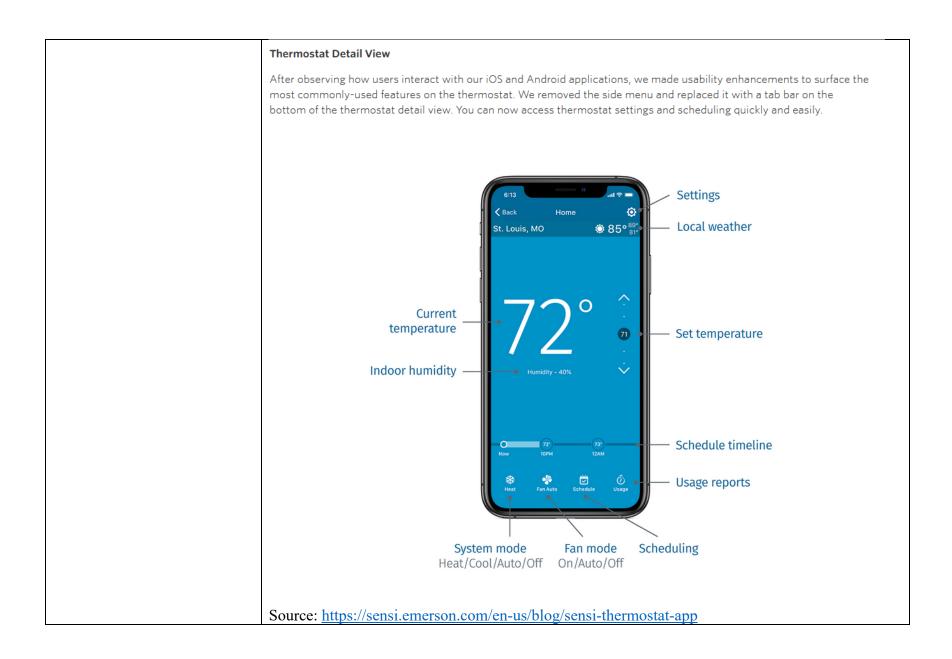
If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.

Claim 5

Claim 5	Exemplary Infringement Evidence
[5] The automation component	Each Accused Product comprises the automation component of claim 1, wherein the computer
of claim 1, wherein the	readable instructions are further programmed to: communicate all of the stored sensor data
computer readable instructions	corresponding to the received sensor control information to the second automation component.
are further programmed to:	
communicate all of the stored	For example, all changes of temperature and humidity values from each Accused Product
sensor data corresponding to	(including the Emerson Sensi Touch Smart Thermostat (ST75)) are immediately communicated to
the received sensor control	the Sensi app.
information to the second	
automation component.	See, e.g.:



Claim 7	Exemplary Infringement Evidence		
[7pre] An automation component configured for wireless communication within a building automation system, the automation component comprising:	To the extent the preamble is limiting, each Accused Product includes an automation component configured for wireless communication within a building automation system. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is an automation component configured for wireless communication within a building automation system.		
	See, e.g.: Sen SI MENU 6:10 PM Set to 71 Humidity - 40% Set Cool Mode ♣ Fan Auto		

SKU: ST75

ST75, Sensi™ Touch smart thermostat (Black)

The award-winning Sensi Touch smart thermostat focuses on providing the best homeowner experience including a large color touch screen, easy set-up, intuitive controls and compatibility with popular home automation systems.

Source: https://sensi.emerson.com/en-us/shop/sensi/sensi-sku-st75

- Monitor HVAC system: Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.
- Get reminders: Receive notifications for filter, UV lights, humidifier pad, and HVAC maintenance.
- View usage: Monitor current day and historical heating, cooling and fan runtimes right in the app.

Source: https://sensi.emerson.com/en-us/shop/sensi/products/sensi-sku-st75w



SAVE ABOUT 23% ON HVAC ENERGY¹

By adjusting the temperature using flexible scheduling, remote access, and geofencing, Sensi thermostat customers save about 23% on HVAC energy usage.

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

[7a] a multi-sensor package configured to generate a plurality of sensor data for	Each Accused Product comprises a multi-sensor package configured to generate a plurality of sensor data for each sensor within the multi-sensor package.
each sensor within the multi- sensor package;	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is configured to generate a plurality of sensor data for each sensor within the multi-sensor package. For example, the Emerson Sensi Touch Smart Thermostat (ST75) includes at least humidity and temperature sensors. See, e.g.:

Explore the enhanced features and upgraded design

Sensi Touch smart thermostat gives you a modern design and convenient updated features for home comfort control on your terms.



Get reminders

Receive notifications for filter, UV lights, humidifier pad, and HVAC maintenance.

Back glow

Perfect for night time or low lighting.

Automatic upgrades

As existing features are enhanced and new features are released, your thermostat software is kept up-to-date automatically.

Humidity reading

Tracks humidity for total awareness of your home's atmosphere.

Color shift

App and thermostat change color to let you know at a glance whether your system is heating or cooling.

Brightness adjust

Large backlit display offers flexible lighting options.

Source: https://sensi.emerson.com/en-us/products/touch-thermostat



[7b] a wireless communications component;

Each Accused Product comprises a wireless communications component.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) contains a wireless communications component.

See, e.g.:

Wi-Fi & security

Wi-Fi 802.11b/g/n @ 2.4 GHz

WPA and WPA 2 encryption methods

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

Home Screen Content

Toggle what you want to see on the display from this menu. You can display the current time, humidity or change from Fahrenheit to Celsius.

Wi-Fi

The Sensi app will instruct you how to connect Sensi to Wi-Fi. You can also turn Wi-Fi on or off at any time.

Turn Wi-Fi Off

If connecting to Wi-Fi is not an option, turn off Wi-Fi on the thermostat and manually set a time and a schedule from the unit.

- · Press Men
- · Press Wi-Fi.
- Toggle Wi-Fi "Off."
- · Press the back arrow to return to the main screen.





Source: sensi-touch-smart-thermostat-manual-operation-guide-en-us-6356710.pdf (emerson.com)

[7c] a processor in communication with the wireless communications component and the sensor package; Each Accused Product comprises a processor in communication with the wireless communications component and the sensor package.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) contains a processor that is in communication with the wireless communications component and the sensor package.

See, e.g.:



USAGE REPORTS: Monitor current day and historical heating, cooling and fan runtimes right in the app.

CONTROL FROM ANYWHERE: Remotely control your home comfort from your smartphone or tablet using the Sensi mobile app for Android and IOS devices.

SMART ALERTS: Sensi features smart alerts to help detect extreme temperature and humidity levels in your home.

CIRCULATING FAN: Air circulation may improve indoor air quality by helping to regulate temperature and prevent the buildup of particles and mold.

HVAC Compatibility

The Sensi Touch is compatible with most HVAC systems, but not all. If you didn't check compatibility prior to purchasing your new Sensi, don't tear into that box just yet.

Use the Sensi Compatibility Checker.

Does a Sensi Touch Require a C-Wire?

For proper functionality, Emerson Sensi Touch Smart Thermostats *do* require a C-wire. This is because all of its cool features (Wi-Fi connectivity, geofencing, colorful touchscreen display...) use a *lot* of power! By using a negative charge to supply continuous power to your Sensi, a C-wire ensures its display, internal processor, and Wi-Fi connectivity remain up and running.

Read More about Sensis and C-Wires

Source: Emerson Sensi Touch Smart Thermostat (poweredbyefi.org)

[7d] a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor; wherein the computer readable instructions are programmed to:

Each Accused Product comprises a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) contains memory that stores sensor data that is collected by the sensor package. For example, the Emerson Sensi Touch Smart Thermostat (ST75) contains memory that stores sensor data related to at least temperature and humidity.

See, e.g.:



Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

	SENSI ALERT	TRIGGER
	High temperature:	Above 99°F
	Low temperature:	Below 45°F
	High humidity:	Above 70%
	Loss of heat/cool:	Temp goes up or down 5°F during cycle
	Source: spec-sheet-sensi-touch-smart-therr	nostat-en-6309540.pdf (emerson.com)
[7e] receive status data related to sensor data in control at a second automation component in communication with the building automation system;	Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com) In each Accused Product, the computer readable instructions are programmed to receive status data related to sensor data in control at a second automation component in communication with the building automation system. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)), a first automation component, can receive dehumidification set point status data, related to the humidity sensor data in control. The humidity sensor data controls the HVAC system to overcool or use wired dehumidification. The Emerson Sensi Touch Smart Thermostat (ST75) can also receive temperature set point status data, related to the temperature sensor data in control, that controls the HVAC system to cool or heat. This dehumidification set point can be received from a device running the Sensi app, a second automation component. Likewise, the temperature set point can be received from a device running the Sensi app, a second automation component.	
	See, e.g.:	

What is dehumidification and how does it work?

Dehumidification is the process of removing moisture or humidity from the air in your home. This process can be done two ways: wired dehumidification or overcooling.

Note: Neither feature will trigger a cooling cycle on its own. A cooling cycle will only be extended based on whether the humidity percentage is above the desired humidity.

Wired dehumidification - W2/* (Optimal Comfort)

This requires a technician to come in and wire your system to run at a low fan speed during a cooling cycle to achieve dehumidification. Then he will configure your thermostat appropriately, and test operation.

Overcooling (Optimal Dehumidification)

This feature allows anyone with a cooling system to achieve dehumidification. By setting this feature, you allow the thermostat to cool past your set point by up to 3 degrees during an active cooling cycle to achieve the dehumidification percent you desired.

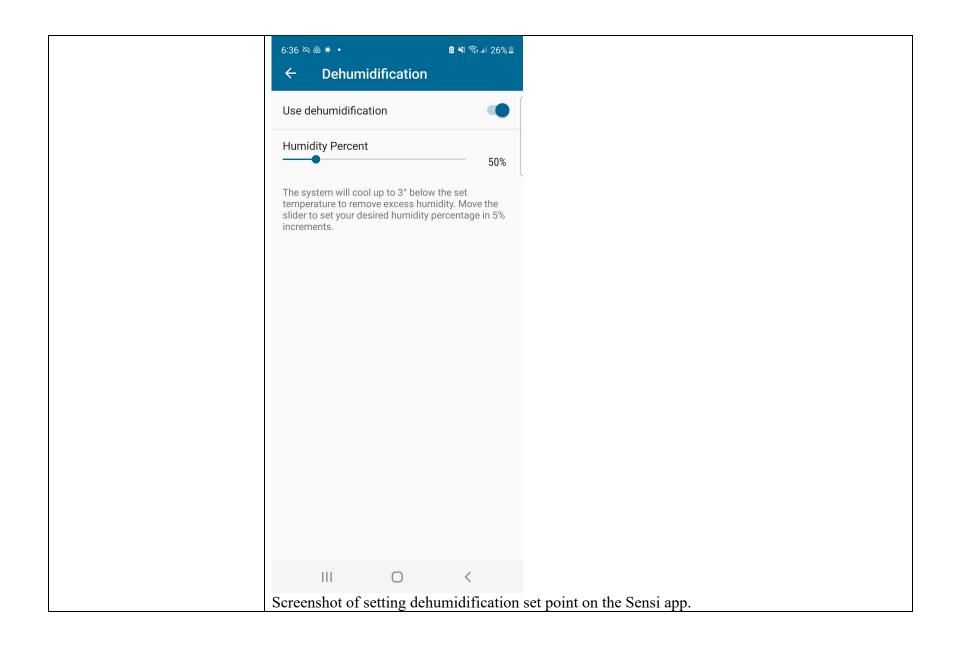
To set this feature on the thermostat, refer to the Installation Guide of your thermostat model.

To set this feature with the Sensi app, follow these instructions:

- Open the Sensi app.
- Tap on your thermostat name.
- · Tap on the settings gear.
- · Tap on System settings.
- Tap on Dehumidification and toggle it On.
- · Adjust the Humidity Percentage as desired.
- Go back to the main thermostat page to save changes.

Now that the feature is active, any time the thermostat triggers your cooling system to come on by the set temperature, you may notice that the cooling cycle lasts longer and cools below your set temperature.

Source: https://sensi.emerson.com/en-us/support/what-is-dehumidification





Photograph of enabling and setting dehumidification set point status data, received on Emerson Sensi Touch Smart Thermostat (ST75) from the Sensi app.

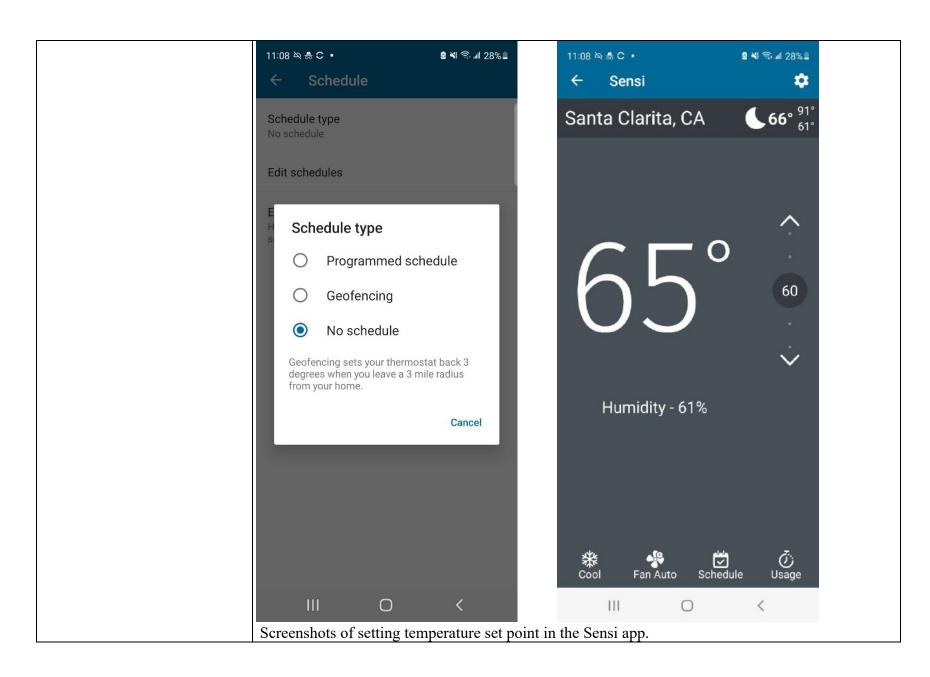
How do I hold one temperature?

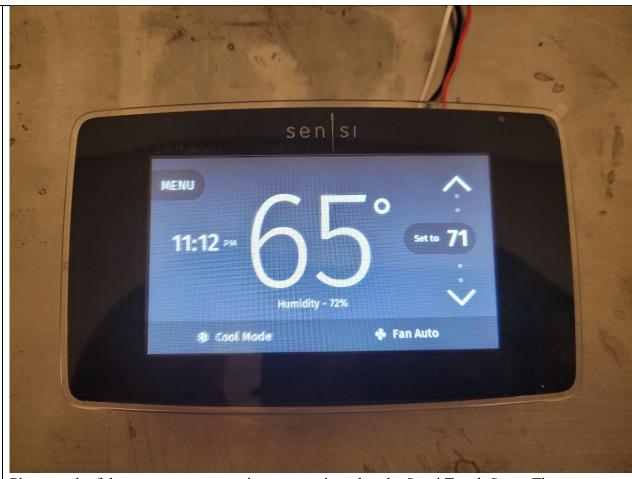
There are several ways you can control your Sensi thermostat. You can set a schedule, hold a temperature or use geofencing. If you don't want to set a schedule or use geofencing, you can always hold one temperature, and adjust it as necessary from the wall or through the Sensi app.

How to hold a temperature from the Sensi app

- Tap on the thermostat name.
- Tap on Scheduling.
- Under Schedule Type, tap on No Schedule.
- Navigate back to the main menu to adjust the set point as necessary using the up or down arrow buttons.

Source: https://sensi.emerson.com/en-us/support/hold-one-temperature





Photograph of the temperature set point communicated to the Sensi Touch Smart Thermostat (ST75).

[7f] determine the sensor data in control at the second automation component based on the received status data; and In each Accused Product, the computer readable instructions are programmed to determine the sensor data in control at the second automation component based on the received status data.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) determines the sensor data in control (e.g., temperature or humidity) based on the received status data, the temperature setpoint or humidity set point from the Sensi app.

See, e.g.:

What is dehumidification and how does it work?

Dehumidification is the process of removing moisture or humidity from the air in your home. This process can be done two ways: wired dehumidification or overcooling.

Note: Neither feature will trigger a cooling cycle on its own. A cooling cycle will only be extended based on whether the humidity percentage is above the desired humidity.

Wired dehumidification - W2/* (Optimal Comfort)

This requires a technician to come in and wire your system to run at a low fan speed during a cooling cycle to achieve dehumidification. Then he will configure your thermostat appropriately, and test operation.

Overcooling (Optimal Dehumidification)

This feature allows anyone with a cooling system to achieve dehumidification. By setting this feature, you allow the thermostat to cool past your set point by up to 3 degrees during an active cooling cycle to achieve the dehumidification percent you desired.

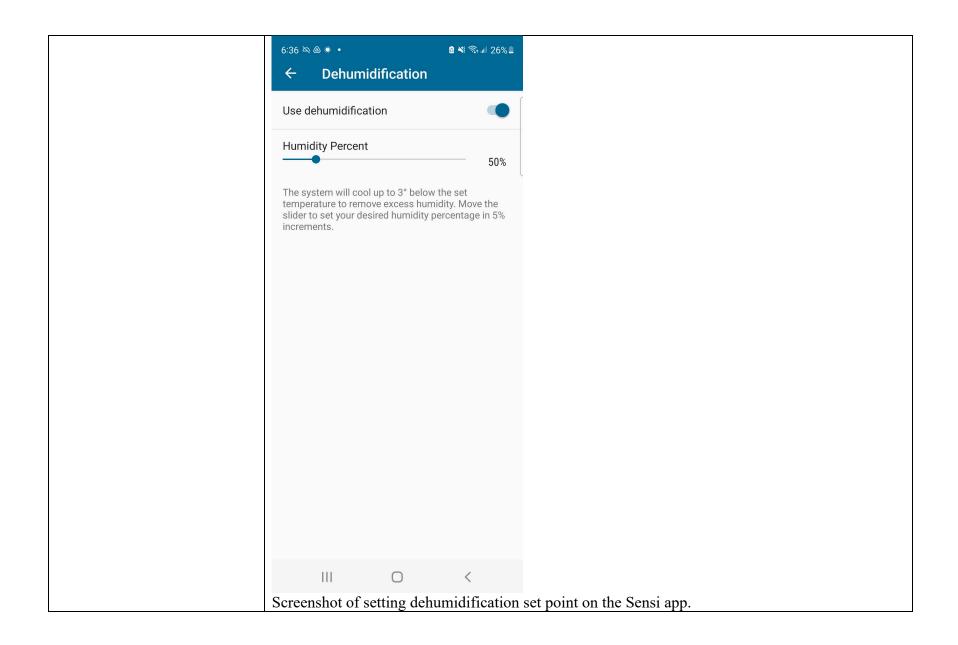
To set this feature on the thermostat, refer to the Installation Guide of your thermostat model.

To set this feature with the Sensi app, follow these instructions:

- Open the Sensi app.
- Tap on your thermostat name.
- · Tap on the settings gear.
- · Tap on System settings.
- Tap on Dehumidification and toggle it On.
- · Adjust the Humidity Percentage as desired.
- Go back to the main thermostat page to save changes.

Now that the feature is active, any time the thermostat triggers your cooling system to come on by the set temperature, you may notice that the cooling cycle lasts longer and cools below your set temperature.

Source: https://sensi.emerson.com/en-us/support/what-is-dehumidification





Photograph of enabling and setting dehumidification set point status data, received on Emerson Sensi Touch Smart Thermostat (ST75) from the Sensi app.

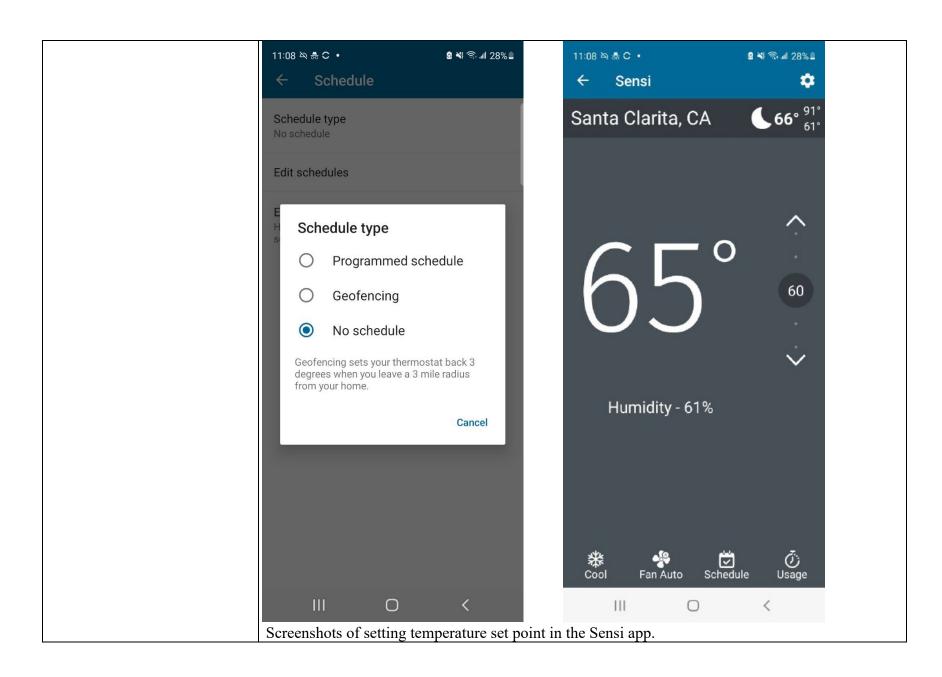
How do I hold one temperature?

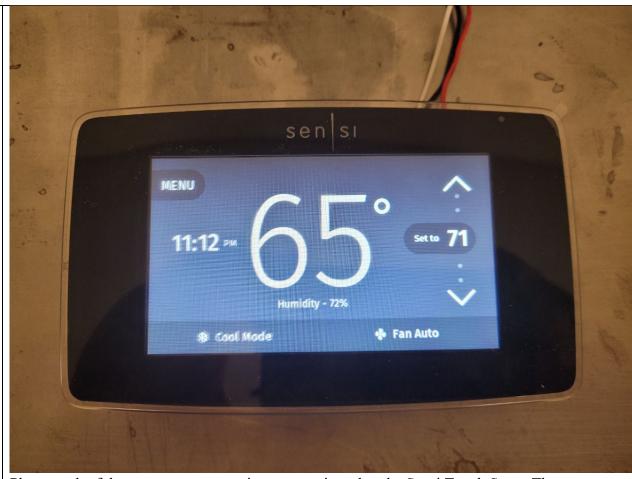
There are several ways you can control your Sensi thermostat. You can set a schedule, hold a temperature or use geofencing. If you don't want to set a schedule or use geofencing, you can always hold one temperature, and adjust it as necessary from the wall or through the Sensi app.

How to hold a temperature from the Sensi app

- Tap on the thermostat name.
- Tap on Scheduling.
- Under Schedule Type, tap on No Schedule.
- Navigate back to the main menu to adjust the set point as necessary using the up or down arrow buttons.

Source: https://sensi.emerson.com/en-us/support/hold-one-temperature



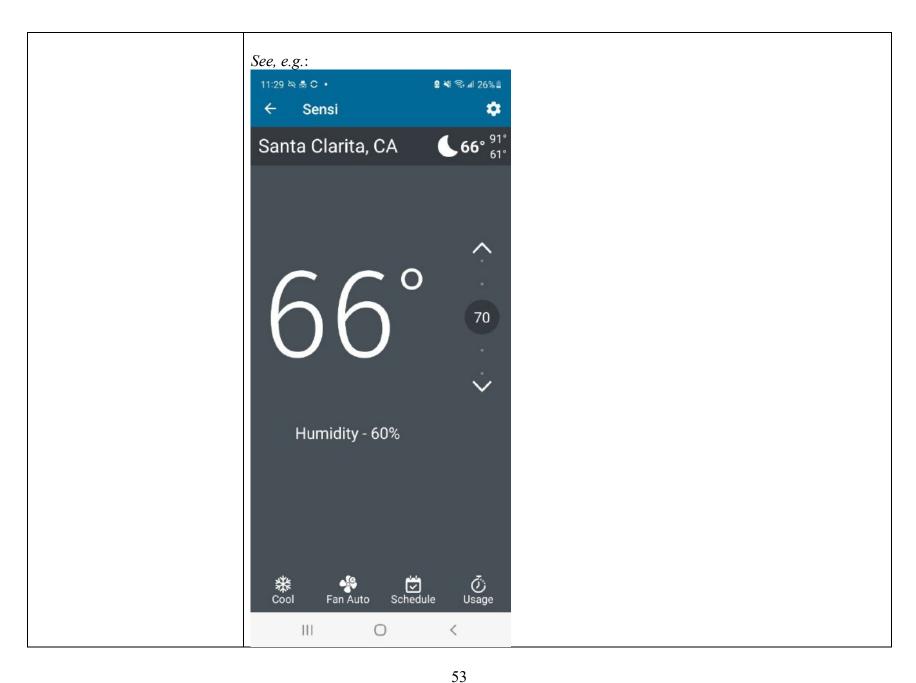


Photograph of the temperature set point communicated to the Sensi Touch Smart Thermostat (ST75).

[7g] communicate the stored sensor data corresponding the sensor data in control to the second automation component.

In each Accused Product, the computer readable instructions are programmed to communicate the stored sensor data corresponding the sensor data in control to the second automation component.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) communicates the temperature or humidity sensor data in control to the device running the Sensi app, a second automation component.



Screenshot of temperature and humidity data communicated to the Sensi app.

Claim 8	Exemplary Infringement Evidence
[8] The automation component	Each Accused Product comprises the automation component of claim 7, wherein the sensor
of claim 7, wherein the sensor	package includes one or more sensors selected from the group consisting of: a temperature sensor;
package includes one or more	a humidity sensor; a carbon monoxide sensor; a carbon dioxide sensor and a volatile organic
sensors selected from the	compound sensor.
group consisting of: a	
temperature sensor; a humidity	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat
sensor; a carbon monoxide	(ST75)) has a temperature sensor and a humidity sensor.
sensor; a carbon dioxide sensor	
and a volatile organic	See, e.g.:
compound sensor.	

Explore the enhanced features and upgraded design

Sensi Touch smart thermostat gives you a modern design and convenient updated features for home comfort control on your terms.



Get reminders

Receive notifications for filter, UV lights, humidifier pad, and HVAC maintenance.

Automatic upgrades

As existing features are enhanced and new features are released, your thermostat software is kept up-to-date automatically.

Color shift

App and thermostat change color to let you know at a glance whether your system is heating or cooling.

Back glow

Perfect for night time or low lighting.

Humidity reading

Tracks humidity for total awareness of your home's atmosphere.

Brightness adjust

Large backlit display offers flexible lighting options.

Source: https://sensi.emerson.com/en-us/products/touch-thermostat

Claim 9	Exemplary Infringement Evidence	
[9] The automation	Each Accused Product comprises the automation component of claim 7, wherein the computer	
component of claim 7,	readable instructions are further programmed to: identify sensor values within the sensor data that	
wherein the computer readable	exceed a corresponding change-of-value threshold.	

instructions are further programmed to: identify sensor values within the sensor data that exceed a corresponding change-ofvalue threshold.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) sends smart alerts when the temperature, a sensor value, exceeds the high home temperature threshold. For example, when the humidity exceeds the high humidity threshold the "High Humidity" alert is sent.

See, e.g.:

Smart Alerts

Are there smart alerts available with Sensi thermostats?

Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:

Alert Name	Triggered	
High Home Temperature	Temperature greater than 99°F	
Low Home Temperature	Temperature less than 45°F	
High Humidity	Humidity greater than 70%	
Loss of Heating	Room temperature goes down 5°F during a heating demand	
Loss of Cooling	Room temperature goes up 5°F during a cooling demand	

High and low temperatures, as well as humidity smart alerts, are not adjustable. Loss of heating or loss of cooling smart alerts are based on your Sensi temperature setting. The email is sent to the email address registered to your Sensi account. If the condition that triggers a smart alert still exists after a period of time, you will receive follow up emails. Some alerts re-trigger daily, while others, weekly.

Source: https://sensi.emerson.com/en-us/support/email-alerts-related-to-my-hvac-system

www.sensicomfort.com





Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.

Claim 10 Claim 10		Exemplary I	nfringement Evidence	
[10] The automation component of claim 7, wherein the computer readable instructions are further programmed to: set an identification flag for each identified sensor value.	Exemplary Infringement Evidence Each Accused Product comprises the automation component of claim 7, wherein the computer readable instructions are further programmed to: set an identification flag for each identified sensor value. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) sends smart alerts that include identification flags for each type of alert. See, e.g.: Smart Alerts Are there smart alerts available with Sensi thermostats? Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:			
		Alert Name	Triggered	
		High Home Temperature	Temperature greater than 99°F	
		Low Home Temperature	Temperature less than 45°F	
		High Humidity	Humidity greater than 70%	
		Loss of Heating	Room temperature goes down 5°F during a heating demand	
		Loss of Cooling	Room temperature goes up 5°F during a cooling demand	
	temperature setting. The email is sent period of time, you will receive follow	to the email address registered up emails. Some alerts re-trigg	adjustable. Loss of heating or loss of cooling s d to your Sensi account. If the condition that tr er daily, while others, weekly. oort/email-alerts-related-to-my	riggers a smart alert still exists after a

www.sensicomfort.com





Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi.**

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- · Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

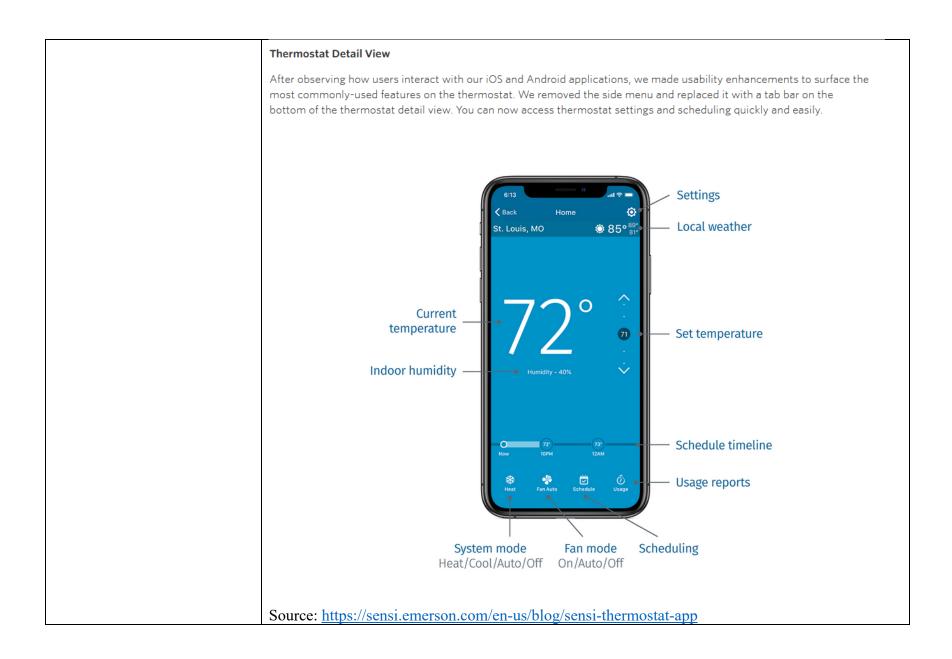
Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.

Claim 11	Exemplary Infringement Evidence
[11] The automation	Each Accused Product comprises the automation component of claim 7, wherein the computer
component of claim 7, wherein	readable instructions are further programmed to: communicate all of the stored sensor data
the computer readable	corresponding to the received status information to the second automation component.
instructions are further	
programmed to: communicate	For example, all changes of temperature and humidity values from each Accused Product
all of the stored sensor data	(including the Emerson Sensi Touch Smart Thermostat (ST75)) are immediately communicated to
corresponding to the received	the Sensi app.
status information to the	
second automation component.	See, e.g.:



Claim 13

Claim 13	Exemplary Infringement Evidence		
[13pre] An automation component configured for wireless communication within a building automation system, the automation component comprising:	To the extent the preamble is limiting, each Accused Product includes an automation component configured for wireless communication within a building automation system. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is an automation component configured for wireless communication within a building automation system.		
	See, e.g.: Sen SI MENU 6:10 PM Set to 71 Humidity - 40% Fan Auto		

SKU: ST75

ST75, Sensi™ Touch smart thermostat (Black)

The award-winning Sensi Touch smart thermostat focuses on providing the best homeowner experience including a large color touch screen, easy set-up, intuitive controls and compatibility with popular home automation systems.

Source: https://sensi.emerson.com/en-us/shop/sensi/sensi-sku-st75

- Monitor HVAC system: Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.
- Get reminders: Receive notifications for filter, UV lights, humidifier pad, and HVAC maintenance.
- View usage: Monitor current day and historical heating, cooling and fan runtimes right in the app.

Source: https://sensi.emerson.com/en-us/shop/sensi/products/sensi-sku-st75w

[13a] a multi-sensor package configured to detect a plurality of variables and generate sensor data for each detected variable;	SAVE ABOUT 23% ON HVAC ENERGY¹ By adjusting the temperature using flexible scheduling, remote access, and geofencing, Sensi thermostat customers save about 23% on HVAC energy usage. Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com) Each Accused Product comprises a multi-sensor package configured to detect a plurality of variables and generate sensor data for each detected variable. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) includes at least temperature and humidity sensors. See, e.g.:		
	SENSI ALERT High temperature: Low temperature: High humidity: Loss of heat/cool:	TRIGGER Above 99°F Below 45°F Above 70% Temp goes up or down 5°F during cycle	
	Source: spec-sheet-sensi-touch-smart-ther	mostat-en-6309540.pdf (emerson.com)	

	HVAC MONITORING Sensi smart thermostats deliver information homeowner's need to maintain their HVAC equipment:	
	Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)	
	CIRCULATING FAN	
	Helps maximize comfort and balance	
	temperature throughout your home	
	by increasing air circulation.	
	HUMIDITY CONTROL	
	Stay comfortable with humidification/	
	dehumidification control.	
	Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)	
[13b] a wireless	Each Accused Product comprises a wireless communications component.	
communications component;	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75))	
	contains a wireless communications component.	

See, e.g.:

Wi-Fi & security

Wi-Fi 802.11b/g/n @ 2.4 GHz

WPA and WPA 2 encryption methods

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

Home Screen Content.

Toggle what you want to see on the display from this menu. You can display the current time, humidity or change from Fahrenheit to Celsius.

Wi-Fi

The Sensi app will instruct you how to connect Sensi to Wi-Fi. You can also turn Wi-Fi on or off at any time.

Turn Wi-Fi Off

If connecting to Wi-Fi is not an option, turn off Wi-Fi on the thermostat and manually set a time and a schedule from the unit.

- · Press Menu.
- · Press Wi-Fi.
- · Toggle Wi-Fi "Off."
- · Press the back arrow to return to the main screen.





Source: sensi-touch-smart-thermostat-manual-operation-guide-en-us-6356710.pdf (emerson.com)

[13c] a processor in communication with the wireless communications component and the sensor package; Each Accused Product comprises a processor in communication with the wireless communications component and the sensor package.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) contains a processor that is in communication with the wireless communications component and the sensor package.

See, e.g.:



USAGE REPORTS: Monitor current day and historical heating, cooling and fan runtimes right in the app.

CONTROL FROM ANYWHERE: Remotely control your home comfort from your smartphone or tablet using the Sensi mobile app for Android and IOS devices.

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The Sensi Touch is compatible with most HVAC systems, but not all. If you didn't check compatibility prior to purchasing your new Sensi, don't tear into that box just yet.

Use the Sensi Compatibility Checker.

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For proper functionality, Emerson Sensi Touch Smart Thermostats *do* require a C-wire. This is because all of its cool features (Wi-Fi connectivity, geofencing, colorful touchscreen display...) use a *lot* of power! By using a negative charge to supply continuous power to your Sensi, a C-wire ensures its display, internal processor, and Wi-Fi connectivity remain up and running.

Read More about Sensis and C-Wires

Source: Emerson Sensi Touch Smart Thermostat (poweredbyefi.org)

[13d] a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor; wherein the computer readable instructions are programmed to:

Each Accused Product comprises a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) contains memory that stores sensor data that is collected by the sensor package. For example, the Emerson Sensi Touch Smart Thermostat (ST75) contains memory that stores sensor data related to at least temperature and humidity.

See, e.g.:

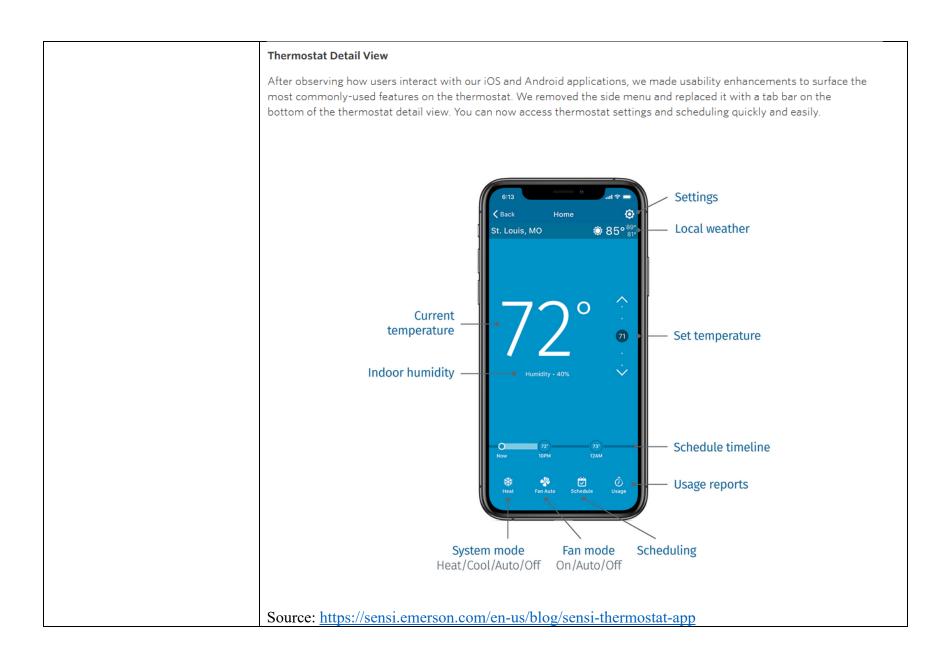


Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

	SENSI ALERT	TRIGGER	
	High temperature:	Above 99°F	
	Low temperature:	Below 45°F	
	High humidity:	Above 70%	
	Loss of heat/cool:	Temp goes up or down 5°F during cycle	
	Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)		
[13e] receive a wake-up command from a second automation component;	In each Accused Product, the computer readable instructions are programmed to receive a wake- up command from a second automation component.		
	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a wake-up command from a device running the Sensi app, a second automation component. For example, the user can set the target temperature or mode within the Sensi app.		
	See, e.g.:		





 $Source: \underline{https://sensi.emerson.com/documents/sensi-touch-smart-thermostat-manual-operation-guide-en-us-5242446.pdf}$

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a wake-up command from a device running the Sensi app, a second automation component. For example, temperature limits for the thermostat can be set using the Sensi app.

See, e.g.:

What are Temperature Limits?

Temperature Limits allow building and facility managers to set limits to set point adjustments. This allows someone to set a range of temperatures that occupants can adjust between. This helps balance occupant comfort and reduce energy inefficiencies.

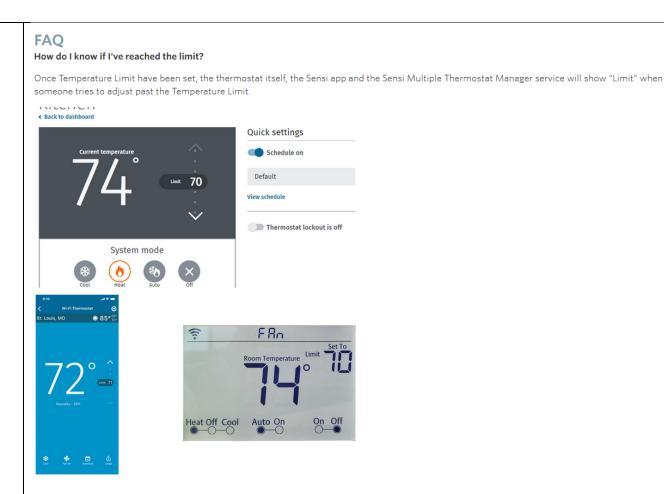
Using the Sensi app

How can I set Temperature Limits in the Sensi app?

- · Open the Sensi app.
- · Tap on your thermostat name.
- · Tap on the settings gear.
- Tap on System settings.
- Find Temperature Limits and adjust your Cooling Minimum Setpoint and your Heating Maximum Setpoint as necessary with the + or buttons.

Example: If the homeowner does not want an occupant to be able to cool the home less than 71°F, adjust the Cooling Min Setpoint to 71.

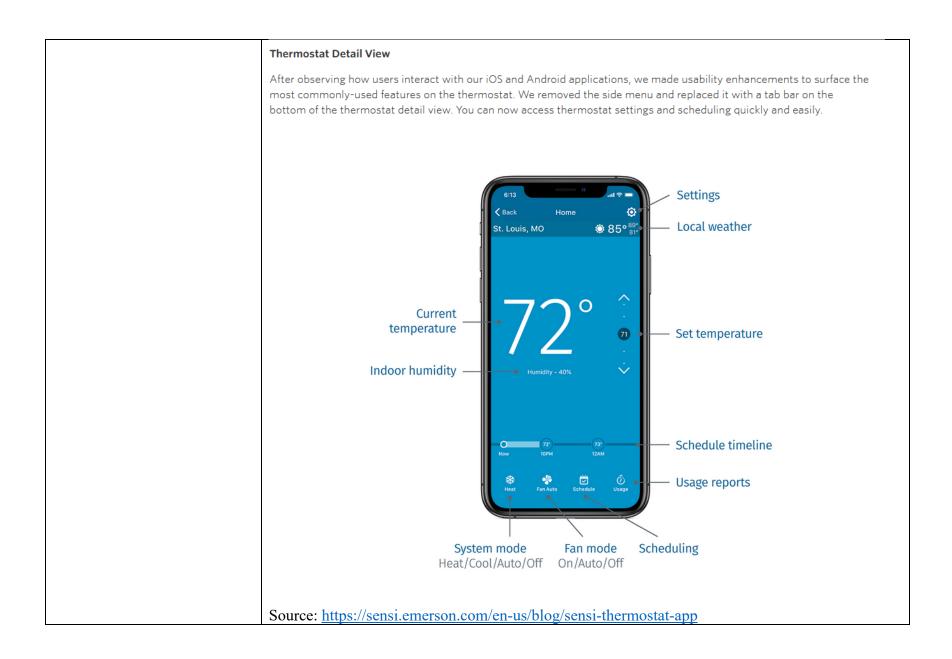
Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq



Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a wake-up command from the cloud, a second automation component. For example, the user can set the target temperature or mode within the Sensi app, which relays it to the cloud. The cloud then sends the wake-up command to the thermostat.

See, e.g.:





For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a wake-up command from the cloud, a second automation component. For example, temperature limits for the thermostat can be set using the Sensi app, which are relayed to the cloud, a second automation component. The cloud then sends the wake-up command to the thermostat.

See, e.g.:

What are Temperature Limits?

Temperature Limits allow building and facility managers to set limits to set point adjustments. This allows someone to set a range of temperatures that occupants can adjust between. This helps balance occupant comfort and reduce energy inefficiencies.

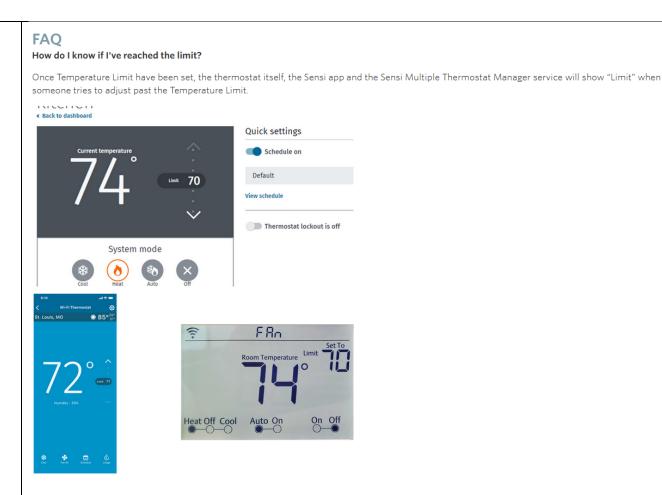
Using the Sensi app

How can I set Temperature Limits in the Sensi app?

- · Open the Sensi app.
- Tap on your thermostat name.
- · Tap on the settings gear.
- Tap on System settings.
- Find Temperature Limits and adjust your Cooling Minimum Setpoint and your Heating Maximum Setpoint as necessary with the + or buttons.

Example: If the homeowner does not want an occupant to be able to cool the home less than 71°F, adjust the Cooling Min Setpoint to 71.

Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq



Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a wake-up command from a second automation component, such as a handset or tablet, using the Sensi app. For example, the wake-up command can be triggered based on the location of the wireless device using the geofencing feature.

See, e.g.:

Dashboard

The app is now easier to navigate through multiple thermostats thanks to a dashboard view - from one thermostat to many, you can control your comfort with a few taps. To access more detailed information about a thermostat, tap on the thermostat name and be taken to the thermostat detail view.

Geofencing

For those living an unprogrammed life, we created the Geofencing feature. By using your phone's location relative to your individual thermostat's location, we can automatically set your mode to home or away, creating a 3-degree offset to save you money while you're gone. You will need to enable the geofencing feature for each thermostat in your home.



Read more about using the **Geofencing** feature.

Source: https://sensi.emerson.com/en-us/blog/sensi-thermostat-app

What is geofencing, and how does it work with Sensi thermostats?

Geofencing is a way to automatically control your Sensi thermostat based on your location. When you travel 3 miles away from your home the Sensi app will signal for your thermostat to change set points and save energy. Your thermostat will lower the temperature 3 degrees when you are in heat mode or raise 3 degrees in cool mode. When you travel back to within 3 miles from your home, your thermostat will be set back to the temperature you had selected before you left.

If you're a busy person with no set schedule, the geofencing feature allows you to be more efficient with your heating and cooling energy usage without needing to remember to adjust your thermostat.

If you tend to have a predictable schedule from day-to-day or week-to-week, the scheduling feature may fit your lifestyle better.

If you'd like to turn on Geofencing, open the Sensi app.

- Tap on your thermostat name.
- Tap Scheduling.
- Tap Schedule type.
- Tap Geofencing.

Source: https://sensi.emerson.com/en-us/support/what-is-geofencing-and-how-does-it-work-with-sensi-thermostats

Choosing between scheduling and geofencing.

You can choose to have your Sensi thermostat on a programmed schedule or in geofencing mode (or no schedule). Only one option can be turned on a time.

If you're a busy person with no set schedule, the geofencing feature allows you to be more efficient with your heating and cooling energy usage withou needing to remember to adjust your thermostat.

If you tend to have a predictable schedule from day to day and week to week, the scheduling feature may fit your lifestyle better.

Source: https://sensi.emerson.com/en-us/support/choosing-between-scheduling-and-geofencing

[13f] communicate stored sensor data related to the sensor data in control at a second automation component; and In each Accused Product, the computer readable instructions are programmed to communicate stored sensor data related to the sensor data in control at a second automation component.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to communicate stored sensor data related to the sensor data in control at a second automation component, such as a handset or tablet. The Emerson Sensi Touch Smart Thermostat (ST75) is programmed to communicate stored sensor data (including data related to temperature and humidity) with the cloud and with applications that can connect to the system, such as the Sensi app.

See, e.g.:



Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

Dashboard

The app is now easier to navigate through multiple thermostats thanks to a dashboard view - from one thermostat to many, you can control your comfort with a few taps. To access more detailed information about a thermostat, tap on the thermostat name and be taken to the thermostat detail view.

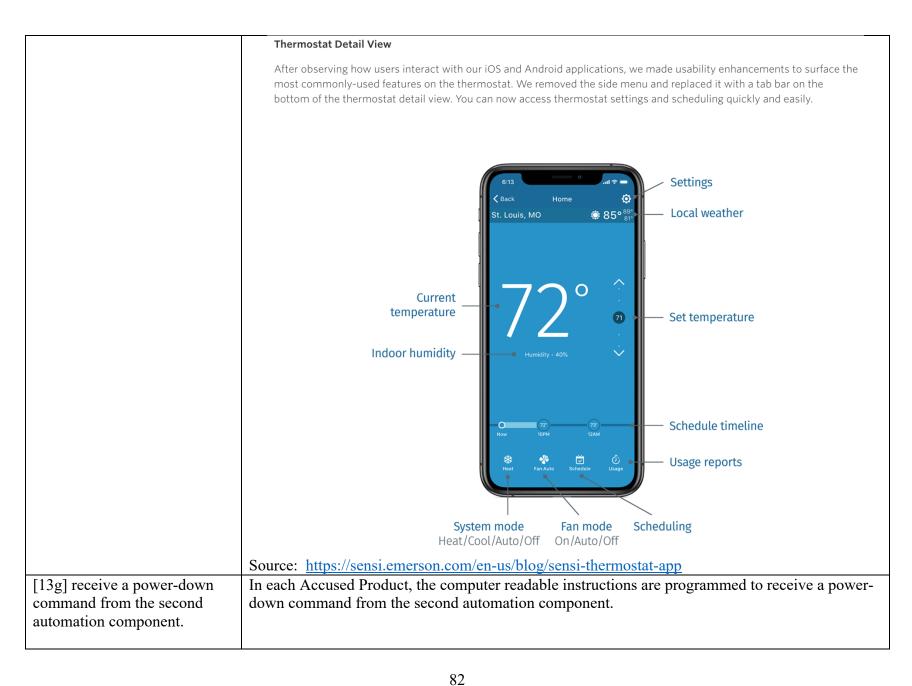
Geofencing

For those living an unprogrammed life, we created the Geofencing feature. By using your phone's location relative to your individual thermostat's location, we can automatically set your mode to home or away, creating a 3-degree offset to save you money while you're gone. You will need to enable the geofencing feature for each thermostat in your home.

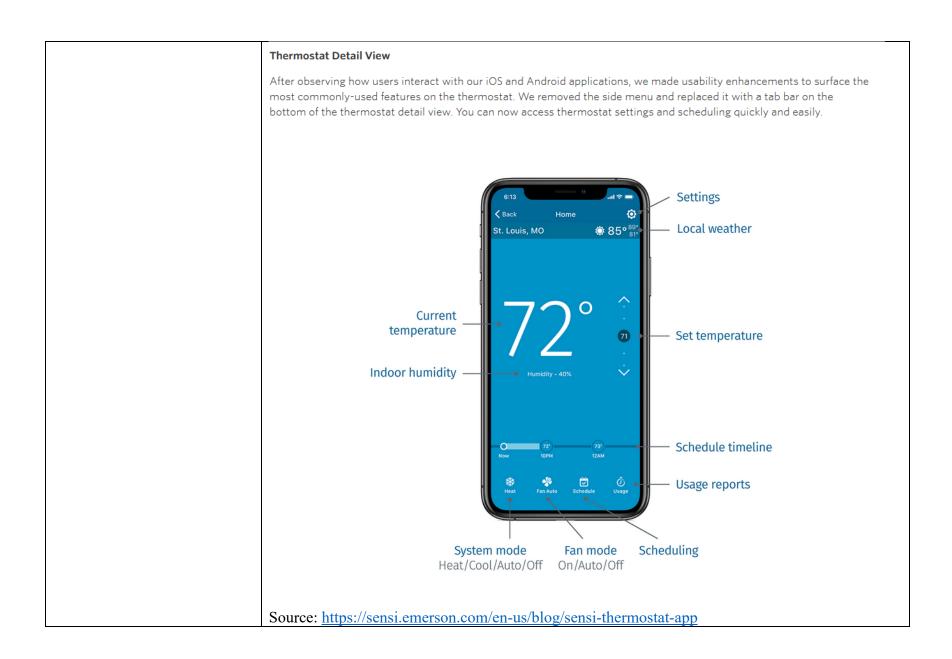


Read more about using the **Geofencing** feature.

Source: https://sensi.emerson.com/en-us/blog/sensi-thermostat-app



For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a power-down command from a device running the Sensi app, a second automation component. For example, the user can set the target temperature within the Sensi app.
See, e.g.:





Source: https://sensi.emerson.com/documents/sensi-touch-smart-thermostat-manual-operation-guide-en-us-5242446.pdf

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a power-down command from a device running the Sensi app, a second automation component. For example, temperature limits for the thermostat can be set using the Sensi app.

See, e.g.:

What are Temperature Limits?

Temperature Limits allow building and facility managers to set limits to set point adjustments. This allows someone to set a range of temperatures that occupants can adjust between. This helps balance occupant comfort and reduce energy inefficiencies.

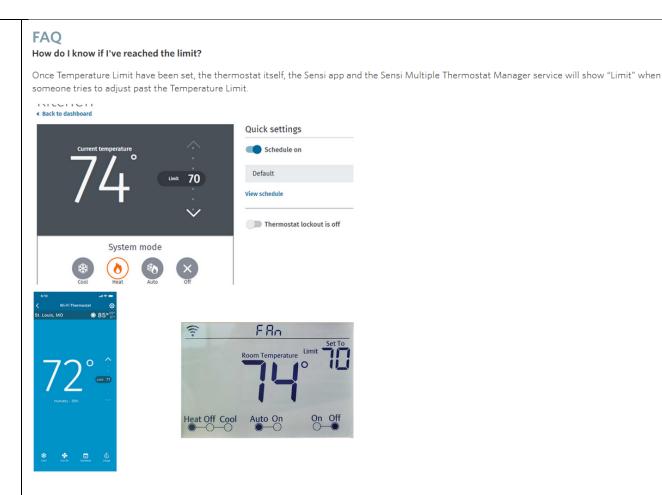
Using the Sensi app

How can I set Temperature Limits in the Sensi app?

- · Open the Sensi app.
- · Tap on your thermostat name.
- . Tap on the settings gear.
- Tap on System settings.
- Find Temperature Limits and adjust your Cooling Minimum Setpoint and your Heating Maximum Setpoint as necessary with the + or buttons.

Example: If the homeowner does not want an occupant to be able to cool the home less than 71°F, adjust the Cooling Min Setpoint to 71.

Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq



Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a power-down command from the cloud, a second automation component. For example, the user can set the target temperature within the Sensi app, which relays this set temperature to the cloud. The cloud then sends the power-down command to the thermostat.

See, e.g.: Thermostat Detail View After observing how users interact with our iOS and Android applications, we made usability enhancements to surface the most commonly-used features on the thermostat. We removed the side menu and replaced it with a tab bar on the bottom of the thermostat detail view. You can now access thermostat settings and scheduling quickly and easily. Settings **S** Back 0 © 85° 89° Local weather St. Louis, MO Current temperature Set temperature **Indoor humidity** Schedule timeline Usage reports System mode Scheduling Fan mode Heat/Cool/Auto/Off On/Auto/Off Source: https://sensi.emerson.com/en-us/blog/sensi-thermostat-app



For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a power-down command from the cloud, a second automation component. For example, temperature limits for the thermostat can be set using the Sensi app, which are relayed to the cloud, a second automation component. The cloud then sends the power-down command to the thermostat.

See, e.g.:

What are Temperature Limits?

Temperature Limits allow building and facility managers to set limits to set point adjustments. This allows someone to set a range of temperatures that occupants can adjust between. This helps balance occupant comfort and reduce energy inefficiencies.

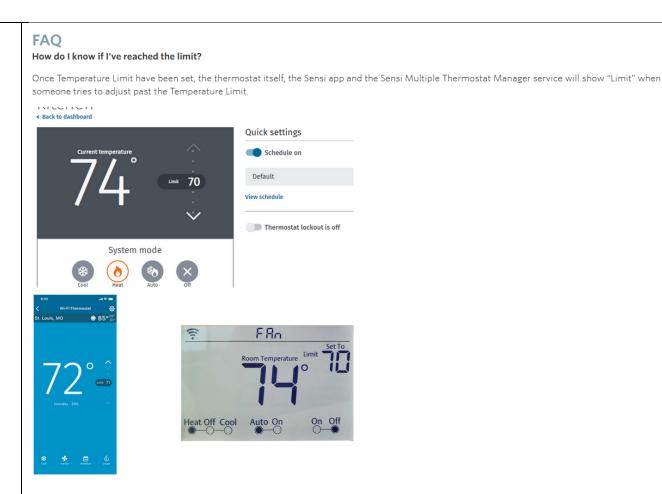
Using the Sensi app

How can I set Temperature Limits in the Sensi app?

- · Open the Sensi app.
- Tap on your thermostat name.
- · Tap on the settings gear.
- Tap on System settings.
- Find Temperature Limits and adjust your Cooling Minimum Setpoint and your Heating Maximum Setpoint as necessary with the + or buttons.

Example: If the homeowner does not want an occupant to be able to cool the home less than 71°F, adjust the Cooling Min Setpoint to 71.

Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq



Source: https://sensi.emerson.com/en-us/support/temperature-limits-faq

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is programmed to receive a power-down command from the second automation component, such as a handset or tablet. For example, the power-down command can be triggered based on the location of the wireless device using the geofencing feature.

See, e.g.:

Dashboard

The app is now easier to navigate through multiple thermostats thanks to a dashboard view - from one thermostat to many, you can control your comfort with a few taps. To access more detailed information about a thermostat, tap on the thermostat name and be taken to the thermostat detail view.

Geofencing

For those living an unprogrammed life, we created the Geofencing feature. By using your phone's location relative to your individual thermostat's location, we can automatically set your mode to home or away, creating a 3-degree offset to save you money while you're gone. You will need to enable the geofencing feature for each thermostat in your home.



Read more about using the **Geofencing** feature.

Source: https://sensi.emerson.com/en-us/blog/sensi-thermostat-app

What is geofencing, and how does it work with Sensi thermostats?

Geofencing is a way to automatically control your Sensi thermostat based on your location. When you travel 3 miles away from your home the Sensi app will signal for your thermostat to change set points and save energy. Your thermostat will lower the temperature 3 degrees when you are in heat mode or raise 3 degrees in cool mode. When you travel back to within 3 miles from your home, your thermostat will be set back to the temperature you had selected before you left.

If you're a busy person with no set schedule, the geofencing feature allows you to be more efficient with your heating and cooling energy usage without needing to remember to adjust your thermostat.

If you tend to have a predictable schedule from day-to-day or week-to-week, the scheduling feature may fit your lifestyle better.

If you'd like to turn on Geofencing, open the Sensi app.

- Tap on your thermostat name.
- Tap Scheduling.
- Tap Schedule type.
- Tap Geofencing.

Source: https://sensi.emerson.com/en-us/support/what-is-geofencing-and-how-does-it-work-with-sensi-thermostats

Claim 14	Exemplary Infringement Evidence	
[14] The automation	Each Accused Product comprises the automation component of claim 13, wherein the sensor	
component of claim 13,	package includes one or more sensors selected from the group consisting of: a temperature sensor;	
wherein the sensor package	a humidity sensor; a carbon monoxide sensor; a carbon dioxide sensor and a volatile organic	
includes one or more sensors	compound sensor.	
selected from the group		
consisting of: a temperature	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat	
sensor; a humidity sensor; a	(ST75)) has a temperature sensor and a humidity sensor.	
carbon monoxide sensor; a		
carbon dioxide sensor and a	See, e.g.:	

volatile organic compound Explore the enhanced features and upgraded design sensor. Sensi Touch smart thermostat gives you a modern design and convenient updated features for home comfort control on your terms. MENU **⊗** Cool Mode Fan Auto **Get reminders Automatic upgrades** Color shift Receive notifications for filter, UV lights, As existing features are enhanced and App and thermostat change color to let humidifier pad, and HVAC maintenance. new features are released, your you know at a glance whether your thermostat software is kept up-tosystem is heating or cooling. date automatically. **Back glow Humidity reading Brightness adjust** Perfect for night time or low lighting. Tracks humidity for total awareness of Large backlit display offers flexible your home's atmosphere. lighting options.

Claim 15

Claim 15	Exemplary Infringement Evidence	
[15] The automation	Each Accused Product comprises the automation component of claim 13, wherein the computer	
component of claim 13,	readable instructions are further programmed to: identify sensor values within the sensor data that	
wherein the computer readable	exceed a corresponding change-of-value threshold.	

Source: https://sensi.emerson.com/en-us/products/touch-thermostat

instructions are further programmed to: identify sensor values within the sensor data that exceed a corresponding change-ofvalue threshold.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) sends smart alerts when the temperature, a sensor value, exceeds the high home temperature threshold. For example, when the humidity exceeds the high humidity threshold the "High Humidity" alert is sent.

See, e.g.:

Smart Alerts

Are there smart alerts available with Sensi thermostats?

Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
Loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

High and low temperatures, as well as humidity smart alerts, are not adjustable. Loss of heating or loss of cooling smart alerts are based on your Sensi temperature setting. The email is sent to the email address registered to your Sensi account. If the condition that triggers a smart alert still exists after a period of time, you will receive follow up emails. Some alerts re-trigger daily, while others, weekly.

Source: https://sensi.emerson.com/en-us/support/email-alerts-related-to-my-hvac-system

www.sensicomfort.com





Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

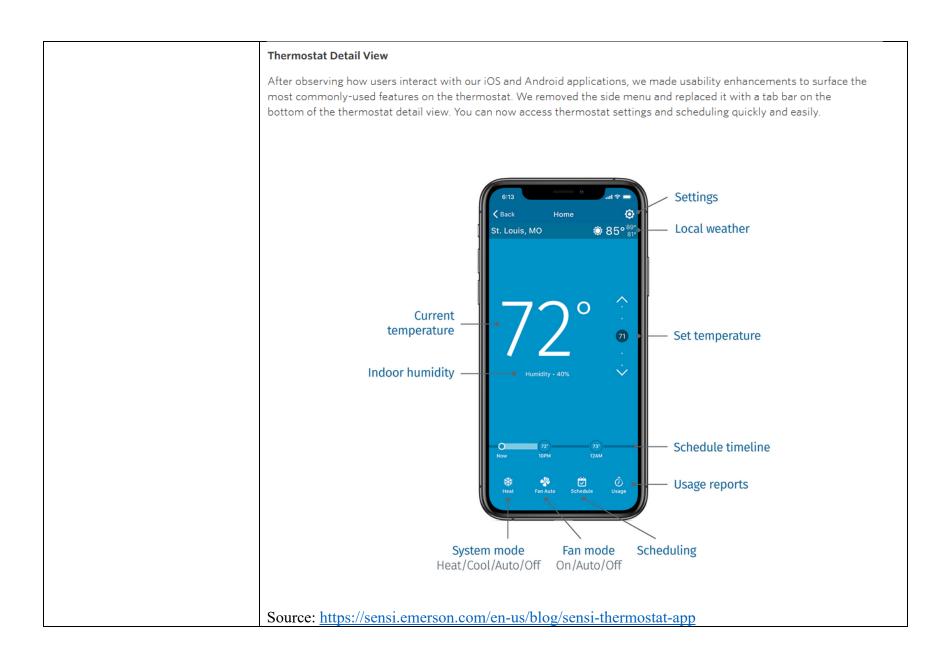
If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.

Claim 16	Exemplary Infringement Evidence			
[16] The automation component of claim 13, wherein the computer readable instructions are further programmed to: set an identification flag for each identified sensor value.	Each Accused Product comprises the automation component of claim 13, wherein the computer readable instructions are further programmed to: set an identification flag for each identified sensor value. For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) sends smart alerts that include identification flags for each type of alert. See, e.g.: Smart Alerts Are there smart alerts available with Sensi thermostats? Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:			
		Alert Name	Triggered	
		High Home Temperature	Temperature greater than 99°F	
		Low Home Temperature	Temperature less than 45°F	
		High Humidity	Humidity greater than 70%	
		Loss of Heating	Room temperature goes down 5°F during a heating demand	
		Loss of Cooling	Room temperature goes up 5°F during a cooling demand	
	temperature setting. The email is sent period of time, you will receive follow t	to the email address registered up emails. Some alerts re-trigge	adjustable. Loss of heating or loss of cooling sdu to your Sensi account. If the condition that treer daily, while others, weekly.	riggers a smart alert still exists after a

Claim 17	Exemplary Infringement Evidence	
[17] The automation	Each Accused Product comprises the automation component of claim 13, wherein the computer	
component of claim 13,	readable instructions are further programmed to: communicate all of the stored sensor data	
wherein the computer readable	corresponding to the received status information to the second automation component.	
instructions are further		
programmed to: communicate	For example, all changes of temperature and humidity values from each Accused Product	
all of the stored sensor data	(including the Emerson Sensi Touch Smart Thermostat (ST75)) are immediately communicated to	
corresponding to the received	the Sensi app.	
status information to the		
second automation component.	See, e.g.:	



Claim 20	Exemplary Infringement Evidence
[20pre] A method for	To the extent the preamble is limiting, each Accused Product includes a method for providing
providing power saving	power saving wireless communication within a building automation system.
wireless communication within	
a building automation system,	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat
the method comprising:	(ST75)) only sends smart alerts under certain conditions.
	See, e.g.:

Smart Alerts

Are there smart alerts available with Sensi thermostats?

Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

High and low temperatures, as well as humidity smart alerts, are not adjustable. Loss of heating or loss of cooling smart alerts are based on your Sensi temperature setting. The email is sent to the email address registered to your Sensi account. If the condition that triggers a smart alert still exists after a period of time, you will receive follow up emails. Some alerts retrigger daily, while others, weekly.

Note: You can choose to opt out of smart alerts when signing up for a Sensi account. If you do choose to opt out when signing up but change your mind, you can always opt into alerts under **Email and Notifications** in your Sensi app.

Source: https://sensi.emerson.com/en-us/support/email-alerts-related-to-my-hvac-system

[20a] scanning sensor data associated with each of a plurality of sensors contained within a multi-sensor package of a first automation component; Each Accused Product comprises scanning sensor data associated with each of a plurality of sensors contained within a multi-sensor package of a first automation component.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) scans data from at least humidity and temperature sensors.

See, e.g.:

Explore the enhanced features and upgraded design Sensi Touch smart thermostat gives you a modern design and convenient updated features for home comfort control on your terms ⊕ Cool Mode **Get reminders** Automatic upgrades Color shift Receive notifications for filter, UV lights, As existing features are enhanced and App and thermostat change color to let humidifier pad, and HVAC maintenance. new features are released, your you know at a glance whether your thermostat software is kept up-tosystem is heating or cooling. date automatically. Back glow **Humidity reading** Brightness adjust Perfect for night time or low lighting. Tracks humidity for total awareness of Large backlit display offers flexible your home's atmosphere. lighting options. Source: https://sensi.emerson.com/en-us/products/touch-thermostat [20b] identifying changed Each Accused Product comprises identifying changed sensor values within the sensor data. sensor values within the sensor For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat data; (ST75)) can identify changed sensor values within the sensor data and trigger an alert when temperature and/or humidity values change outside a range. See, e.g.:

Smart Alerts

Are there smart alerts available with Sensi thermostats?

Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

High and low temperatures, as well as humidity smart alerts, are not adjustable. Loss of heating or loss of cooling smart alerts are based on your Sensi temperature setting. The email is sent to the email address registered to your Sensi account. If the condition that triggers a smart alert still exists after a period of time, you will receive follow up emails. Some alerts retrigger daily, while others, weekly.

Note: You can choose to opt out of smart alerts when signing up for a Sensi account. If you do choose to opt out when signing up but change your mind, you can always opt into alerts under **Email and Notifications** in your Sensi app.

Source: https://sensi.emerson.com/en-us/support/email-alerts-related-to-my-hvac-system

www.sensicomfort.com





Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.

[20c] receiving a first
communication from a second
automation component in
communication with the first
automation component and the
building automation system;
and

Each Accused Product comprises receiving a first communication from a second automation component in communication with the first automation component and the building automation system.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) can receive a first communication from a device running the Sensi app, a second automation component, to setup smart alert notifications.

See, e.g.:

Smart Alerts

Are there smart alerts available with Sensi thermostats?

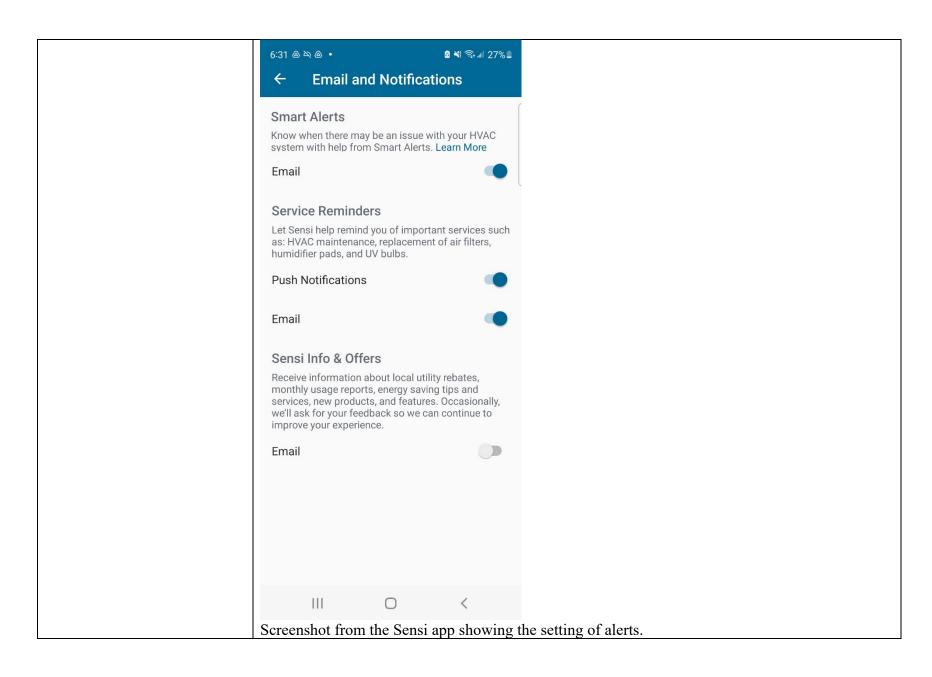
Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

High and low temperatures, as well as humidity smart alerts, are not adjustable. Loss of heating or loss of cooling smart alerts are based on your Sensi temperature setting. The email is sent to the email address registered to your Sensi account. If the condition that triggers a smart alert still exists after a period of time, you will receive follow up emails. Some alerts retrigger daily, while others, weekly.

Note: You can choose to opt out of smart alerts when signing up for a Sensi account. If you do choose to opt out when signing up but change your mind, you can always opt into alerts under **Email and Notifications** in your Sensi app.

Source: https://sensi.emerson.com/en-us/support/email-alerts-related-to-my-hvac-system



[20d] communicating a portion	Each Accused Product comprises communicating a portion of the identified changed sensor values
of the identified changed	associated with the first communication received from the second automation component.
sensor values associated with	
the first communication	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat
received from the second	(ST75)) communicates values of temperature and/or humidity during an alert.
automation component.	
	See, e.g.:

www.sensicomfort.com





Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

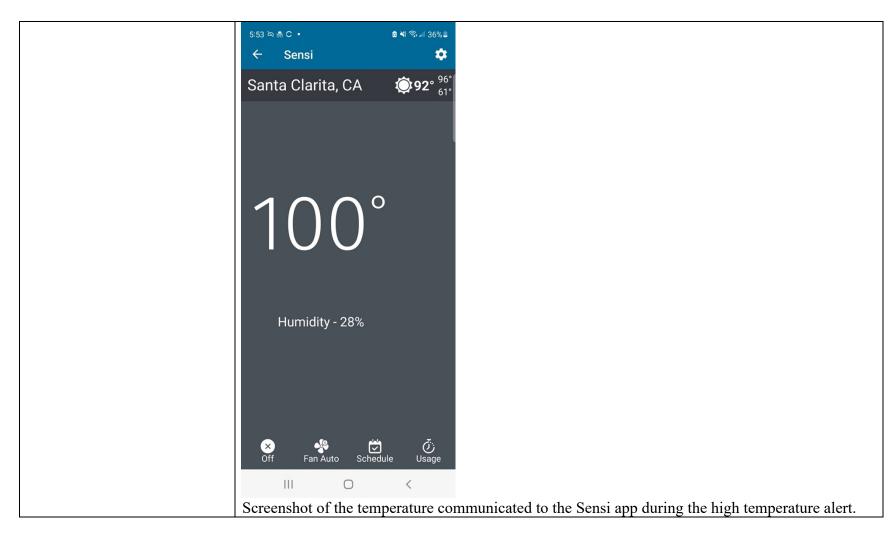
Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.



Claim 21

Claim 21	Exemplary Infringement Evidence
[21] The method of claim 20,	Each Accused Product comprises the method of claim 20, wherein identifying changed sensor
wherein identifying changed	values includes identifying changed sensor values as a function of a change-of-value threshold.
sensor values includes	

identifying changed sensor values as a function of a change-of-value threshold.

For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) sends loss of heating or cooling alerts when the temperature changes by more than a change-of-value threshold of 5 degrees.

See, e.g.:

Smart Alerts

Are there smart alerts available with Sensi thermostats?

Yes. Sensi does monitor your HVAC performance as long as the thermostat is online, and an email is generated when one of the following conditions occur:

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
Loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

High and low temperatures, as well as humidity smart alerts, are not adjustable. Loss of heating or loss of cooling smart alerts are based on your Sensi temperature setting. The email is sent to the email address registered to your Sensi account. If the condition that triggers a smart alert still exists after a period of time, you will receive follow up emails. Some alerts re-trigger daily, while others, weekly.

Source: https://sensi.emerson.com/en-us/support/email-alerts-related-to-my-hvac-system

EXHIBIT B

Emerson's Infringement of U.S. Patent No. 8,224,282 ("'282 Patent")

Accused Products

Emerson products, including without limitation the Verdant VX Series and ZX Series Thermostats ("Accused Products"), infringe at least Claims 1, 2, 5, 7, 8, 11, 13, 14, and 17 of the '282 Patent.

Claim 1

Claim 1	Exemplary Infringement Evidence
[1pre] An automation component configured for wireless communication within	To the extent the preamble is limiting, each Accused Product includes an automation component configured for wireless communication within a building automation system.
a building automation system, the automation component	For example, each Accused Product (including the Verdant VX Thermostat) is an automation component configured for wireless communication within a building automation system.
comprising:	See, e.g.:
	VERDANT*
	FIC FIC
	The same of the sa
	THAN LUW SE COUL
	Source: https://www.verdant.co/products/thermostats/vx-thermostats/vx-thermostat/

	Built-in wireless mesh-networking enables optional remote management
	features.
	Fully configurable settings allow for customization of energy savings to fit any
	situation.
	 Temperature Setback automatically adjusts the temperature when rooms are
	unoccupied to save energy.
	Source: https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf
	"Auto Changeover Set Point Offset" - the difference
	between the guest-selected set point and the heat and cool changeover temperatures;
	"1st Stage Differential - Heat" - the temperature that the thermostat has to sense between the automatic
	changeover temperature for heat and the room
	temperature before a call for the 1st stage heating is
	initiated;
	Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf
[1a] a multi-sensor package	Each Accused Product comprises a multi-sensor package configured to detect a plurality of
configured to detect a plurality	variables and generate sensor data for each detected variable.
of variables and generate	
sensor data for each detected	For example, each Accused Product (including the Verdant VX Thermostat) includes at least
variable;	temperature, humidity, and occupancy sensors.
	See, e.g.:
	The Verdant VX Series thermostat delivers unprecedented energy
	savings without compromising guest comfort. An Integrated
	occupancy sensor allows for energy saving when rooms are
	unoccupied.
,	

Occupancy Sensor Beam Width	±47° (94°)
Wireless Frequency	902-928MHz
Temperature Accuracy	±1°F

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

- Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
- Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
- Setback Limits control the maximum and minimum room temperature when a room is in setback mode.
- Set Point Limits prevent guests from setting the room temperature to extreme, energy-wasting levels.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

	VERDANT THERMOSTAT COMPARIS	SON	
	Wired	Yes	Yes
	Wireless	Yes	Yes
	Occupancy Detection	Yes	Yes
	Night Occupancy Mode	Yes	Yes
	Dynamic Intelligent Recove	ry Yes	Yes
	Display	e-paper	LCD
	Online Management	Yes	Yes*
	Humidity Control	Yes	Yes
	Source: https://d1-auth.	climate.emerson.com/en-u	ıs/prod
	Functionality	Sensor Functionality Code	:
	Occupancy Sensor	100	
	Sensor with Magnetic door switch	010*	
	Temperature Sensor	001	
	Source: https://fccid.io.	/XEYWX-DB/User-Manu	al/Mar
] a wireless nmunications component;		comprises a wireless compused Product (including to	
	communications compo		

See, e.g.:

Built-in wireless mesh-networking enables optional online management features. Fully configurable settings allow for customization of energy savings to fit any situation.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

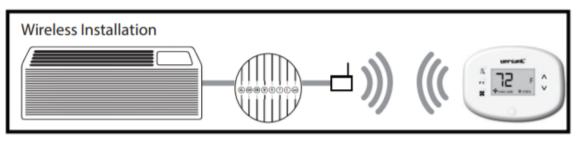
Wireless Frequency 902-928MHz 902-928MHz

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

[1c] a processor in communication with the wireless communications component and the sensor package; Each Accused Product comprises a processor in communication with the wireless communications component and the sensor package.

For example, each Accused Product (including the Verdant VX Thermostat) contains a processor that is in communication with the wireless communications component and the sensor package.

See, e.g.:



Source: https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf

Discovering an Active Sensor



The thermostat will display the first sensor discovered in the pairing process. Ensure that the unique device number displayed on the screen matches the unique ID found on the sensor.

- Press the FIC button to pair the discovered sensor to the HVAC Controller.
- Repeat this process as necessary for additional sensors.

Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf

[1d] a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor; wherein the computer readable instructions are programmed to:

Each Accused Product comprises a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor.

For example, each Accused Product (including the Verdant VX Thermostat) contains memory that stores sensor data that is collected by the sensor package. For example, the Verdant VX Thermostat contains memory that stores sensor data related to at least temperature, humidity, and occupancy.

See, e.g.:

	■ Temperature Setback automatically adjusts the temperature when rooms are unoccupied to save energy.
	Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
	Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
	Source: https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf
	"Auto Restore On" - thermostat will restore the most recent guest settings when new occupancy is detected;
	"Auto Restore Off" - thermostat will NOT restore the most recent guest and will remain turned off settings when new occupancy is detected;
	Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf
[1d.1] receive sensor control information related to sensor data in control at a second automation component in	In each Accused Product, the computer readable instructions are programmed to receive sensor control information related to sensor data in control at a second automation component in communication with the building automation system.
communication with the building automation system; and	For example, each Accused Product (including the Verdant VX Thermostat) can be paired with each other and a Verdant Online Connection Kit in order to receive sensor control information from a second automation component running the Verdant EI app.
	See, e.g.:

Verdant's Proprietary 900MHz Communication Protocol

All Verdant thermostats and accessories are networked and automatically form a deep mesh network, thereby enabling centralized control of all thermostats in a building from a cloud-based owner console.

All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

Source: https://www.verdant.co/knowledge-base/900mhz-protocol/

Monitor Your HVAC System from Anywhere



Verdant EI[™] includes a cloud-based dashboard and smartphone app to help you monitor your property in real-time and change unocupied settings on the fly:

SAVINGS DASHBOARD

Login to your portal and monitor your real-time or historical savings data. If you manage various properties, segment your savings by property, brand, size, etc.

ROOM OCCUPANCY

Allow your maintenance staff to identify any room requiring special attention. It also gives your housekeeping staff real-time occupancy status eliminating quest disruptions while cleaning rooms.

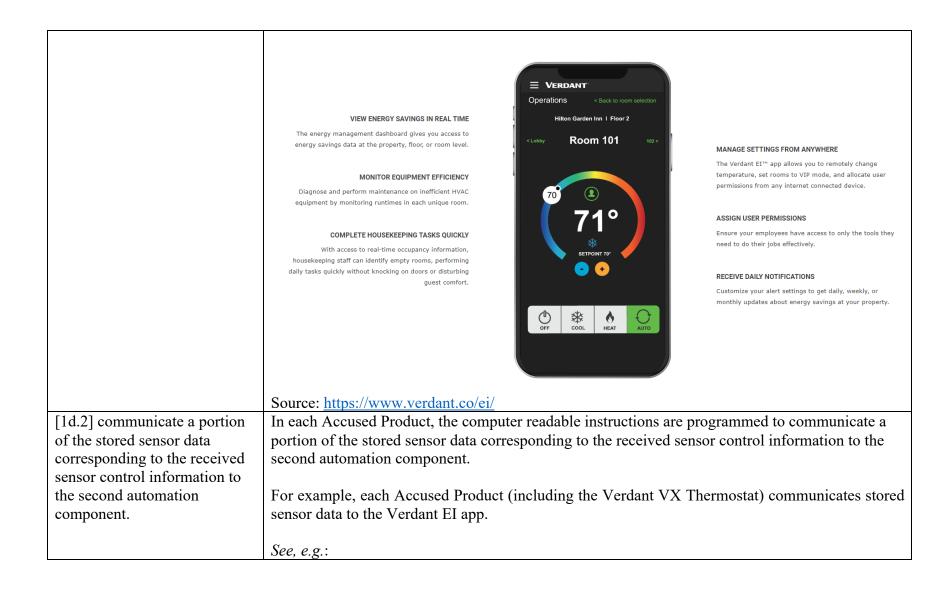
OPERATIONS

See each thermostat laid out on your floor plan and check current room temperature. Instantaneously adjust each room's setpoint when rooms are unoccupied and monitor humidity levels to prevent guest complaints.

USER MANAGEMENT

Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



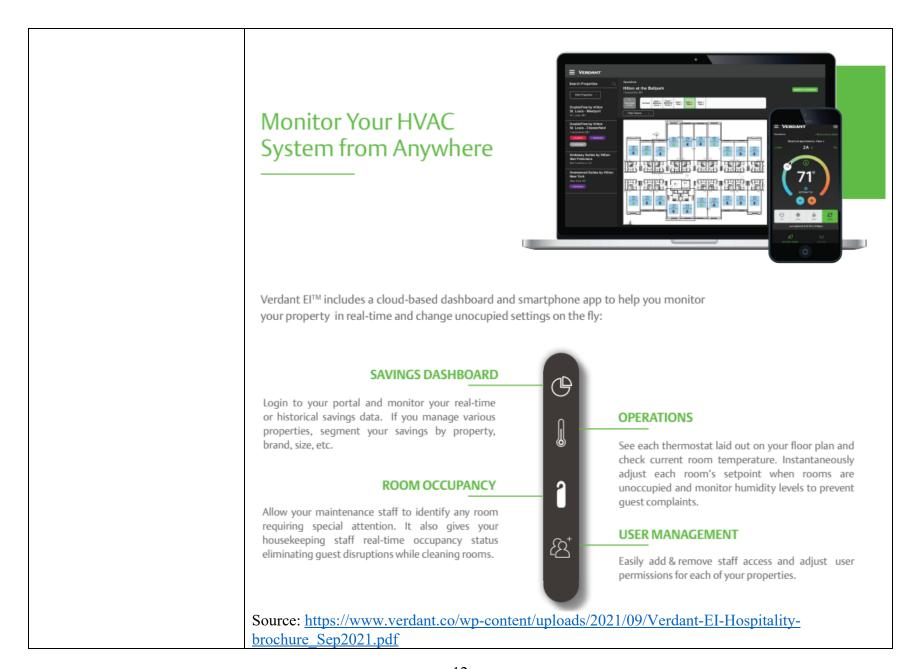
Verdant's Proprietary 900MHz Communication Protocol

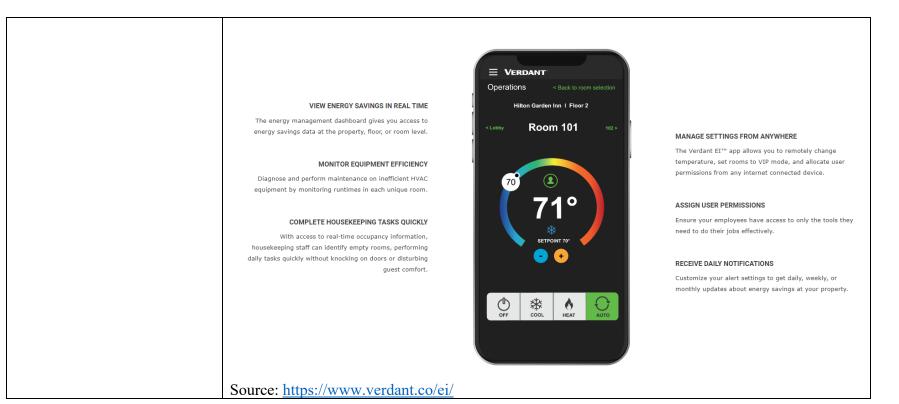
All Verdant thermostats and accessories are networked and automatically form a deep mesh network, thereby enabling centralized control of all thermostats in a building from a cloud-based owner console.

All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

 $Source: \ \underline{https://www.verdant.co/knowledge-base/900mhz-protocol/}$

https://www.verdant.co/knowledge-base/900mhz-protocol/





Claim 2

Claim 2	Exemplary Infringement Evidence
[2] The automation component	Each Accused Product comprises the automation component of claim 1, wherein the sensor
of claim 1, wherein the sensor	package includes one or more sensors selected from the group consisting of: a temperature sensor;
package includes one or more	a humidity sensor; a carbon monoxide sensor; a carbon dioxide sensor and a volatile organic
sensors selected from the	compound sensor.
group consisting of: a	
temperature sensor; a humidity	For example, each Accused Product (including the Verdant VX Thermostat) includes temperature
sensor; a carbon monoxide	and humidity sensors.
sensor; a carbon dioxide	
sensor and a volatile organic	See, e.g.:
compound sensor.	

The Verdant VX Series thermostat delivers unprecedented energy savings without compromising guest comfort. An Integrated occupancy sensor allows for energy saving when rooms are unoccupied.

Occupancy Sensor Beam Width	±47° (94°)
Wireless Frequency	902-928MHz
Temperature Accuracy	±1°F

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

- Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
- Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
- Setback Limits control the maximum and minimum room temperature when a room is in setback mode.
- Set Point Limits prevent guests from setting the room temperature to extreme, energy-wasting levels.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

VERDANT THERMOSTAT COMPA	RISON				
				, Verdant ZX	Verdant \
Wired		Yes	Yes		
Wireless		Yes	Yes		
Occupancy Detection		Yes	Yes		
Night Occupancy Mode		Yes	Yes		
Dynamic Intelligent Recov	/ery	Yes	Yes		
Display		e-paper	LCD		
Online Management		Yes	Yes*		
Humidity Control		Yes	Yes		
ource: https://d1-auth	n.climate.emers	son.com/en-us	s/product	s/thermostats/thermostat	t <u>s</u>
Functionality	Sensor Fund	ctionality Code			
Occupancy Sensor		100			
	-	010*			
Sensor with Magnetic door switch	,				

Claim 5

-	Claim 5	Accused Products

[5] The automation component of claim 1, wherein the computer readable instructions are further programmed to: communicate all of the stored sensor data corresponding to the received sensor control information to the second automation component.

Each Accused Product comprises the automation component of claim 1, wherein the computer readable instructions are further programmed to communicate all of the stored sensor data corresponding to the received sensor control information to the second automation component.

For example, all stored sensor data corresponding to the received sensor control information from the the Accused Product is communicated to the Verdant EI app.

See, e.g.:

Verdant's Proprietary 900MHz Communication Protocol

All Verdant thermostats and accessories are networked and automatically form a deep mesh network, thereby enabling centralized control of all thermostats in a building from a cloud-based owner console.

All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

Source: https://www.verdant.co/knowledge-base/900mhz-protocol/
https://www.verdant.co/knowledge-base/900mhz-protocol/

Monitor Your HVAC System from Anywhere



Verdant EI™ includes a cloud-based dashboard and smartphone app to help you monitor your property in real-time and change unocupied settings on the fly:



Login to your portal and monitor your real-time or historical savings data. If you manage various properties, segment your savings by property, brand, size, etc.

ROOM OCCUPANCY

Allow your maintenance staff to identify any room requiring special attention. It also gives your housekeeping staff real-time occupancy status eliminating quest disruptions while cleaning rooms.

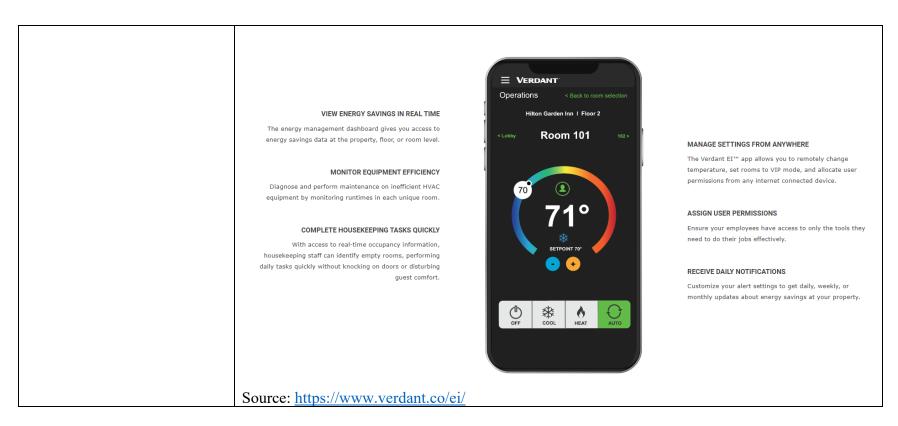
OPERATIONS

See each thermostat laid out on your floor plan and check current room temperature. Instantaneously adjust each room's setpoint when rooms are unoccupied and monitor humidity levels to prevent guest complaints.

USER MANAGEMENT

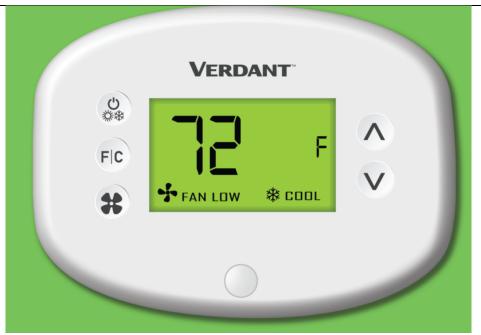
Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



Claim 7

Claim 7	Exemplary Infringement Evidence				
[7pre] An automation component configured for	To the extent the preamble is limiting, each Accused Product includes an automation component configured for wireless communication within a building automation system.				
wireless communication within a building automation system, the automation component comprising:	For example, each Accused Product (including the Verdant VX Thermostat) is an automation component configured for wireless communication within a building automation system.				
	See, e.g.:				



Source: https://www.verdant.co/products/thermostats/vx-thermostats/

Built-in wireless mesh-networking enables optional remote management features.

Fully configurable settings allow for customization of energy savings to fit any situation.

Temperature Setback automatically adjusts the temperature when rooms are unoccupied to save energy.

 $Source: \ \underline{https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf}$

[7a] a multi-sensor package configured to generate a plurality of sensor data for each sensor within the multi-sensor package;	"Auto Changeover Set Point Offset" - the difference between the guest-selected set point and the heat and cool changeover temperatures; "1st Stage Differential - Heat" - the temperature that the thermostat has to sense between the automatic changeover temperature for heat and the room temperature before a call for the 1st stage heating is initiated; Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf Each Accused Product comprises a multi-sensor package configured to generate a plurality of sensor data for each sensor within the multi-sensor package. For example, each Accused Product (including the Verdant VX Thermostat) includes at least temperature, humidity, and occupancy sensors. See, e.g.:			
	The Verdant VX Series thermostat delivers unprecedented energy savings without compromising guest comfort. An Integrated occupancy sensor allows for energy saving when rooms are unoccupied.			
		Occupancy Sensor Beam Width	±47° (94°)	
		Wireless Frequency	902-928MHz	
		Temperature Accuracy	±1°F	
	Source: https://ww	vw.verdant.co/wp-content/uploa	ads/2021/09/VX-TW-KT-W.pd	<u>f</u>

Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
 Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
 Setback Limits control the maximum and minimum room temperature when a room is in setback mode.
 Set Point Limits prevent guests from setting the room temperature to extreme, energy-wasting levels.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

	VERDANT THERMOSTAT COMPARIS	SON				
				, Verdant ZX		Verdant VX
	Wired	Yes	Yes			
	Wireless	Yes	Yes			
	Occupancy Detection	Yes	Yes			
	Night Occupancy Mode	Yes	Yes			
	Dynamic Intelligent Recove	ry Yes	Yes			
	Display	e-paper	LCD			
	Online Management	Yes	Yes*			
	Humidity Control	Yes	Yes			
	Source: https://d1-auth.	climate.emerson.com/en-u	s/produc	ets/thermostats/thermostats/thermostats/	<u>mostats</u>	
	Functionality	Sensor Functionality Code				
	Occupancy Sensor	100				
	Sensor with Magnetic door switch	010*				
	Temperature Sensor	001				
	Source: https://fccid.io	/XEYWX-DB/User-Manu	al/Manu	al-5127106.pdf		
[7b] a wireless communications component;	Each Accused Product comprises a wireless communications component. For example, each Accused Product (including the Verdant VX Thermostat) contains a wireless communications component.					

See, e.g.:

Built-in wireless mesh-networking enables optional online management features. Fully configurable settings allow for customization of energy savings to fit any situation.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

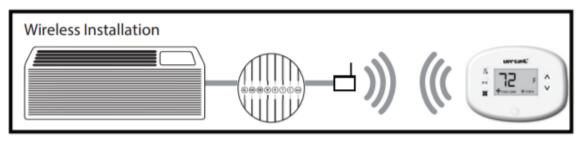
Wireless Frequency 902-928MHz 902-928MHz

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

[7c] a processor in communication with the wireless communications component and the sensor package; Each Accused Product comprises a processor in communication with the wireless communications component and the sensor package.

For example, each Accused Product (including the Verdant VX Thermostat) contains a processor that is in communication with the wireless communications component and the sensor package.

See, e.g.:



Source: https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf

Discovering an Active Sensor



The thermostat will display the first sensor discovered in the pairing process. Ensure that the unique device number displayed on the screen matches the unique ID found on the sensor.

- Press the F|C button to pair the discovered sensor to the HVAC Controller.
- Repeat this process as necessary for additional sensors.

Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf

[7d] a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor; wherein the computer readable instructions are programmed to:

Each Accused Product comprises a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor.

For example, each Accused Product (including the Verdant VX Thermostat) contains memory that stores sensor data that is collected by the sensor package. For example, the Verdant VX Thermostat contains memory that stores sensor data related to at least temperature, humidity, and occupancy.

See, e.g.:

	Temperature Setback automatically adjusts the temperature when rooms are unoccupied to save energy.
	Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
	Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
	Source: https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf
	"Auto Restore On" - thermostat will restore the most recent guest settings when new occupancy is detected;
	"Auto Restore Off" - thermostat will NOT restore the most recent guest and will remain turned off settings when new occupancy is detected;
	Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf
[7d.1] receive status data related to sensor data in control at a second automation component in communication	In each Accused Product, the computer readable instructions are programmed to receive status data related to sensor data in control at a second automation component in communication with the building automation system.
with the building automation system;	For example, each Accused Product (including the Verdant VX Thermostat) can be paired with each other and a Verdant Online Connection Kit in order to receive status data related to sensor data in control from a second automation component running the Verdant EI app. For example, the status data may include the selection of a temperature control mode using temperature data or automatic humidity control mode using humidity data.
	See, e.g.:

Verdant's Proprietary 900MHz Communication Protocol

All Verdant thermostats and accessories are networked and automatically form a deep mesh network, thereby enabling centralized control of all thermostats in a building from a cloud-based owner console.

All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

Source: https://www.verdant.co/knowledge-base/900mhz-protocol/

Monitor Your HVAC System from Anywhere



Verdant EI™ includes a cloud-based dashboard and smartphone app to help you monitor your property in real-time and change unocupied settings on the fly:



Login to your portal and monitor your real-time or historical savings data. If you manage various properties, segment your savings by property, brand, size, etc.

ROOM OCCUPANCY

Allow your maintenance staff to identify any room requiring special attention. It also gives your housekeeping staff real-time occupancy status eliminating guest disruptions while cleaning rooms.

OPERATIONS

See each thermostat laid out on your floor plan and check current room temperature. Instantaneously adjust each room's setpoint when rooms are unoccupied and monitor humidity levels to prevent guest complaints.

USER MANAGEMENT

Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



The energy management dashboard gives you access to energy savings data at the property, floor, or room level.

MONITOR EQUIPMENT EFFICIENCY

Diagnose and perform maintenance on inefficient HVAC equipment by monitoring runtimes in each unique room.

COMPLETE HOUSEKEEPING TASKS QUICKLY

With access to real-time occupancy information, housekeeping staff can identify empty rooms, performing daily tasks quickly without knocking on doors or disturbing guest comfort.



MANAGE SETTINGS FROM ANYWHERE

The Verdant EI[™] app allows you to remotely change temperature, set rooms to VIP mode, and allocate user permissions from any internet connected device.

ASSIGN USER PERMISSIONS

Ensure your employees have access to only the tools they need to do their jobs effectively.

RECEIVE DAILY NOTIFICATIONS

Customize your alert settings to get daily, weekly, or monthly updates about energy savings at your property.

Source: https://www.verdant.co/ei/

>> Min & Max Setback limits

The temperature threshold (in degrees) upon which the thermostat activates heating or cooling in an unoccupied room.

Humidity Control

The threshold (in percentage) at which the air conditioner will activate fan and air conditioning to mitigate humidity in a room.

Source: https://www.verdant.co/knowledge-base/patented-features/

Custom Energy Savings Settings Custom Energy Savings Settings 22 - AUTOMATIC HUMIDITY CONTROL[†] 19 - TEMPERATURE CONTROL MODE Disable automatic humidity control: 01* Enable automatic humidity control; Select Temperature Control Mode: When "Automatic Humidity Control" is enabled, thermostat MANUAL - Allows users to select HEAT only or COOL only will turn on air conditioning in an unoccupied room when humidity raises above 60% and room temperature is above 72°F temperature control mode to maintain the room temperature: until either room humidity is below 55% or room temperature AUTOMATIC - Thermostat automatically turns on heating or is below 72°F; air conditioning to maintain the room temperature at the selected temperature set point; Indicates default setting; This setting is active only on thermostats with enabled Indicates default setting: humidity features. Changing this setting on a non-humidity thermostat will have no effect on thermostat operation. Humidity features can be enabled on compatible thermostats via remote management. Certain models only. Additional fees apply. Source: https://www.manualslib.com/manual/1509053/Verdant-Vx-Series.html?page=1#manual In each Accused Product, the computer readable instructions are programmed to determine the [7d.2] determine the sensor data in control at the second sensor data in control at the second automation component based on the received status data. automation component based on the received status data; and For example, each Accused Product (including the Verdant VX Thermostat) is able to determine whether to use temperature data if a temperature setpoint is enabled or humidity data if automatic humidity control is enabled. See, e.g.:

>> Min & Max Setback limits

The temperature threshold (in degrees) upon which the thermostat activates heating or cooling in an unoccupied room.

Humidity Control

The threshold (in percentage) at which the air conditioner will activate fan and air conditioning to mitigate humidity in a room.

Source: https://www.verdant.co/knowledge-base/patented-features/

Custom Energy Savings Settings Custom Energy Savings Settings 22 - AUTOMATIC HUMIDITY CONTROL[†] 19 - TEMPERATURE CONTROL MODE Disable automatic humidity control: 01* Enable automatic humidity control; Select Temperature Control Mode: When "Automatic Humidity Control" is enabled, thermostat MANUAL - Allows users to select HEAT only or COOL only will turn on air conditioning in an unoccupied room when humidity raises above 60% and room temperature is above 72°F temperature control mode to maintain the room temperature; until either room humidity is below 55% or room temperature AUTOMATIC - Thermostat automatically turns on heating or is below 72°F; air conditioning to maintain the room temperature at the selected temperature set point; Indicates default setting; This setting is active only on thermostats with enabled Indicates default setting; humidity features. Changing this setting on a non-humidity thermostat will have no effect on thermostat operation. Humidity features can be enabled on compatible thermostats via remote management. Certain models only. Additional fees apply. Source: https://www.manualslib.com/manual/1509053/Verdant-Vx-Series.html?page=1#manual In each Accused Product, the computer readable instructions are programmed to communicate the [7d.3] communicate the stored sensor data corresponding the stored sensor data corresponding the sensor data in control to the second automation component. sensor data in control to the second automation component. For example, each Accused Product (including the Verdant VX Thermostat) communicates stored sensor data to the Verdant EI app. See, e.g.:

Verdant's Proprietary 900MHz Communication Protocol

All Verdant thermostats and accessories are networked and automatically form a deep mesh network, thereby enabling centralized control of all thermostats in a building from a cloud-based owner console.

All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

 $Source: \ \underline{https://www.verdant.co/knowledge-base/900mhz-protocol/}$

https://www.verdant.co/knowledge-base/900mhz-protocol/

Monitor Your HVAC System from Anywhere



Verdant EI[™] includes a cloud-based dashboard and smartphone app to help you monitor your property in real-time and change unocupied settings on the fly:



Login to your portal and monitor your real-time or historical savings data. If you manage various properties, segment your savings by property, brand, size, etc.

ROOM OCCUPANCY

Allow your maintenance staff to identify any room requiring special attention. It also gives your housekeeping staff real-time occupancy status eliminating quest disruptions while cleaning rooms.

OPERATIONS

See each thermostat laid out on your floor plan and check current room temperature. Instantaneously adjust each room's setpoint when rooms are unoccupied and monitor humidity levels to prevent guest complaints.

USER MANAGEMENT

Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



MANAGE SETTINGS FROM ANYWHERE

The Verdant EI[™] app allows you to remotely change temperature, set rooms to VIP mode, and allocate user permissions from any internet connected device.

ASSIGN USER PERMISSIONS

Ensure your employees have access to only the tools they need to do their jobs effectively.

RECEIVE DAILY NOTIFICATIONS

Customize your alert settings to get daily, weekly, or monthly updates about energy savings at your property.

Source: https://www.verdant.co/ei/

Claim 8

Claim 8	Exemplary Infringement Evidence
[8] The automation component	Each Accused Product comprises the automation component of claim 7, wherein the sensor
of claim 7, wherein the sensor	package includes one or more sensors selected from the group consisting of: a temperature sensor;
package includes one or more	a humidity sensor; a carbon monoxide sensor; a carbon dioxide sensor and a volatile organic
sensors selected from the	compound sensor.
group consisting of: a	
temperature sensor; a humidity	For example, each Accused Product (including the Verdant VX Thermostat) includes temperature
sensor; a carbon monoxide	and humidity sensors.
sensor; a carbon dioxide	
sensor and a volatile organic	See, e.g.:
compound sensor.	

The Verdant VX Series thermostat delivers unprecedented energy savings without compromising guest comfort. An Integrated occupancy sensor allows for energy saving when rooms are unoccupied.

Occupancy Sensor Beam Width	±47° (94°)
Wireless Frequency	902-928MHz
Temperature Accuracy	±1°F

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

- Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
- Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
- Setback Limits control the maximum and minimum room temperature when a room is in setback mode.
- Set Point Limits prevent guests from setting the room temperature to extreme, energy-wasting levels.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

VERDANT THERMOSTAT COMPA	RISON				
				, Verdant ZX	Verdant \
Wired		Yes	Yes		
Wireless		Yes	Yes		
Occupancy Detection		Yes	Yes		
Night Occupancy Mode		Yes	Yes		
Dynamic Intelligent Recov	rery	Yes	Yes		
Display		e-paper	LCD		
Online Management		Yes	Yes*		
Humidity Control		Yes	Yes		
ource: https://d1-auth	ı.climate.emers	on.com/en-us	s/product	s/thermostats/thermost	<u>ats</u>
Functionality	Sensor Fund	ctionality Code			
Occupancy Sensor		100			
		4.0.0			
Sensor with Magnetic door switch	0)10*			

Claim 11

Claim 11	Exemplary Infringement Evidence

[11] The automation component of claim 7, wherein the computer readable instructions are further programmed to: communicate all of the stored sensor data corresponding to the received status information to the second automation component.

Each Accused Product comprises the automation component of claim 7, wherein the computer readable instructions are further programmed to communicate all of the stored sensor data corresponding to the received status information to the second automation component.

For example, all stored sensor data corresponding to the received status information from the Accused Product is communicated to the Verdant EI app.

See, e.g.:

Verdant's Proprietary 900MHz Communication Protocol

All Verdant thermostats and accessories are networked and automatically form a deep mesh network, thereby enabling centralized control of all thermostats in a building from a cloud-based owner console.

All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

Source: https://www.verdant.co/knowledge-base/900mhz-protocol/
https://www.verdant.co/knowledge-base/900mhz-protocol/

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Login to your portal and monitor your real-time or historical savings data. If you manage various properties, segment your savings by property, brand, size, etc.

ROOM OCCUPANCY

Allow your maintenance staff to identify any room requiring special attention. It also gives your housekeeping staff real-time occupancy status eliminating quest disruptions while cleaning rooms.

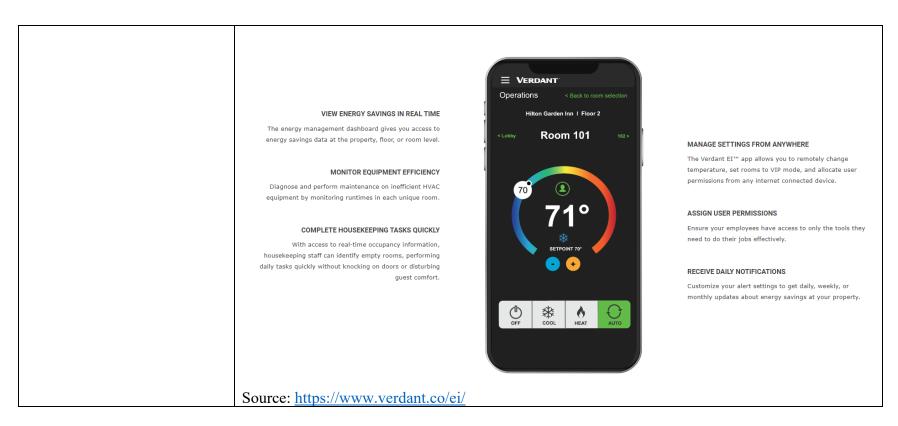
OPERATIONS

See each thermostat laid out on your floor plan and check current room temperature. Instantaneously adjust each room's setpoint when rooms are unoccupied and monitor humidity levels to prevent guest complaints.

USER MANAGEMENT

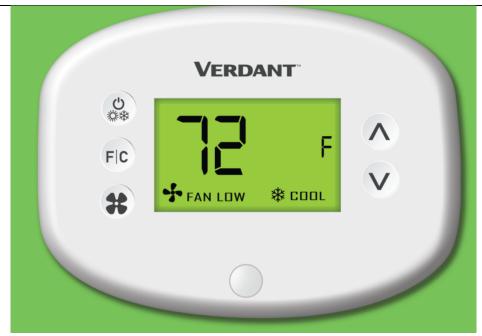
Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



Claim 13

Claim 13	Exemplary Infringement Evidence
[13pre] An automation component configured for	To the extent the preamble is limiting, each Accused Product includes an automation component configured for wireless communication within a building automation system.
wireless communication within a building automation system, the automation component comprising:	For example, each Accused Product (including the Verdant VX Thermostat) is an automation component configured for wireless communication within a building automation system.
	See, e.g.:



Source: https://www.verdant.co/products/thermostats/vx-thermostat/

Built-in wireless mesh-networking enables optional remote management features.

Fully configurable settings allow for customization of energy savings to fit any situation.

 Temperature Setback automatically adjusts the temperature when rooms are unoccupied to save energy.

 $Source: \ \underline{https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf}$

	"Auto Changeover Set Point Offset" - the difference between the guest-selected set point and the heat and cool changeover temperatures;				
	eat" - the temperature that se between the automatic for heat and the room for the 1st stage heating is				
	Source: https://fccid.io/XEYWX-DB/User-Man	<u>ual/Manual-5127106.pdf</u>			
[13a] a multi-sensor package	Each Accused Product comprises a multi-sensor				
configured to detect a plurality	variables and generate sensor data for each detec	ariables and generate sensor data for each detected variable.			
of variables and generate					
sensor data for each detected variable;	For example, each Accused Product (including the Verdant VX Thermostat) includes at least temperature, humidity, and occupancy sensors.				
	See, e.g.:	ee, e.g.:			
	The Verdant VX Series thermostat delivers unprecedented energy				
	savings without compromising guest comfort. An Integrated				
	. 33				
	occupancy sensor allows for energy saving when rooms are				
	unoccupied.				
	Occupancy Sensor Beam Width	±47° (94°)			
	Wireless Frequency	902-928MHz			
	Temperature Accuracy	±1°F			
	Source: https://www.verdant.co/wp-content/uplo	oads/2021/09/VX_TW_KT_W ndf			
	Source. https://www.verdant.co/wp-content/upi	σαασι 2021/07/ γ 21-1 γγ -111-γγ .μαι			

Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
 Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
 Setback Limits control the maximum and minimum room temperature when a room is in setback mode.
 Set Point Limits prevent guests from setting the room temperature to extreme, energy-wasting levels.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

	VERDANT THERMOSTAT COMPARIS	ON				
				. Verdant ZX		Verdant VX
	Wired	Yes	Yes			
	Wireless	Yes	Yes			
	Occupancy Detection	Yes	Yes			
	Night Occupancy Mode	Yes	Yes			
	Dynamic Intelligent Recove	ry Yes	Yes			
	Display	e-paper	LCD			
	Online Management	Yes	Yes*			
	Humidity Control	Yes	Yes			
	Source: https://d1-auth.	climate.emerson.com/en-us	s/product	s/thermostats/tl	<u>nermostats</u>	
	Functionality	Sensor Functionality Code				
	Occupancy Sensor	100				
	Sensor with Magnetic door switch	010*				
	Temperature Sensor	001				
	Source: https://fccid.io.	/XEYWX-DB/User-Manua	1/Manua	1-5127106.pdf		
[13b] a wireless communications component;	Each Accused Product of For example, each Acc	comprises a wireless commused Product (including the	unicatio	ns component.	stat) contair	ns a wirele
	communications compo	nent.				

See, e.g.:

Built-in wireless mesh-networking enables optional online management features. Fully configurable settings allow for customization of energy savings to fit any situation.

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

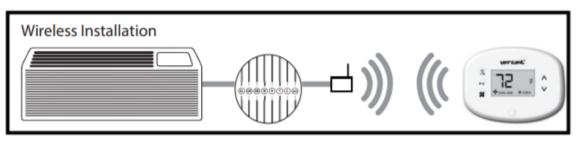
Wireless Frequency 902-928MHz 902-928MHz

Source: https://www.verdant.co/wp-content/uploads/2021/09/VX-TW-KT-W.pdf

[13c] a processor in communication with the wireless communications component and the sensor package; Each Accused Product comprises a processor in communication with the wireless communications component and the sensor package.

For example, each Accused Product (including the Verdant VX Thermostat) contains a processor that is in communication with the wireless communications component and the sensor package.

See, e.g.:



Source: https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf

Discovering an Active Sensor



The thermostat will display the first sensor discovered in the pairing process. Ensure that the unique device number displayed on the screen matches the unique ID found on the sensor.

- Press the F|C button to pair the discovered sensor to the HVAC Controller.
- Repeat this process as necessary for additional sensors.

Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf

[13d] a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor; wherein the computer readable instructions are programmed to:

Each Accused Product comprises a memory in communication with the processor, the memory configured to store sensor data provided by the sensor package and computer readable instructions which are executable by the processor.

For example, each Accused Product (including the Verdant VX Thermostat) contains memory that stores sensor data that is collected by the sensor package. For example, the Verdant VX Thermostat contains memory that stores sensor data related to at least temperature, humidity, and occupancy.

See, e.g.:

	Temperature Setback automatically adjusts the temperature when rooms are unoccupied to save energy.
	Temperature Recovery allows for setting a maximum time permitted for establishing a comfortable room temperature.
	Setback Optimization monitors the temperature recovery rate and optimizes setback temperatures.
	Source: https://www.verdant.co/wp-content/uploads/2018/08/VX-TW-KT-W-SpecSheet.pdf
	"Auto Restore On" - thermostat will restore the most recent guest settings when new occupancy is detected;
	"Auto Restore Off" - thermostat will NOT restore the most recent guest and will remain turned off settings when new occupancy is detected;
	Source: https://fccid.io/XEYWX-DB/User-Manual/Manual-5127106.pdf
[13d.1] receive a wake-up command from a second automation component;	In each Accused Product, the computer readable instructions are programmed to receive a wake- up command from a second automation component.
automation component,	For example, each Accused Product (including the Verdant VX Thermostat) can be paired with each other and a Verdant Online Connection Kit in order to receive a wake-up command, such as changing the temperature setpoint of an occupied room, from a second automation component running the Verdant EI app.
	See, e.g.:

Verdant's Proprietary 900MHz Communication Protocol

All Verdant thermostats and accessories are networked and automatically form a deep mesh network, thereby enabling centralized control of all thermostats in a building from a cloud-based owner console.

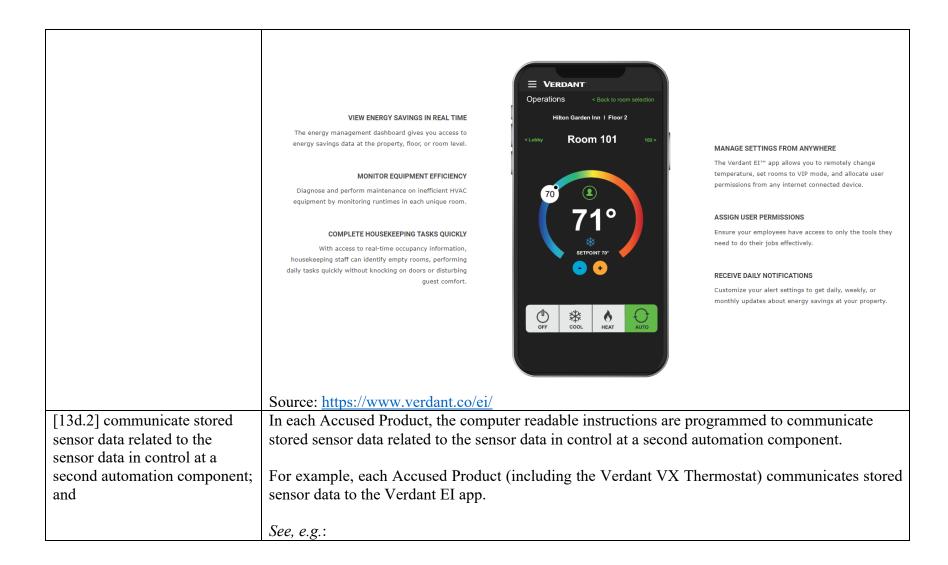
All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

Source: https://www.verdant.co/knowledge-base/900mhz-protocol/

Monitor Your HVAC System from Anywhere Verdant El[™] includes a cloud-based dashboard and smartphone app to help you monitor your property in real-time and change unocupied settings on the fly: SAVINGS DASHBOARD Login to your portal and monitor your real-time or historical savings data. If you manage various **OPERATIONS** properties, segment your savings by property, brand, size, etc. See each thermostat laid out on your floor plan and check current room temperature. Instantaneously adjust each room's setpoint when rooms are ROOM OCCUPANCY unoccupied and monitor humidity levels to prevent guest complaints. Allow your maintenance staff to identify any room requiring special attention. It also gives your **USER MANAGEMENT** housekeeping staff real-time occupancy status eliminating guest disruptions while cleaning rooms. Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-

brochure Sep2021.pdf



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 $Source: \ \underline{https://www.verdant.co/knowledge-base/900mhz-protocol/}$

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Allow your maintenance staff to identify any room requiring special attention. It also gives your housekeeping staff real-time occupancy status eliminating guest disruptions while cleaning rooms.

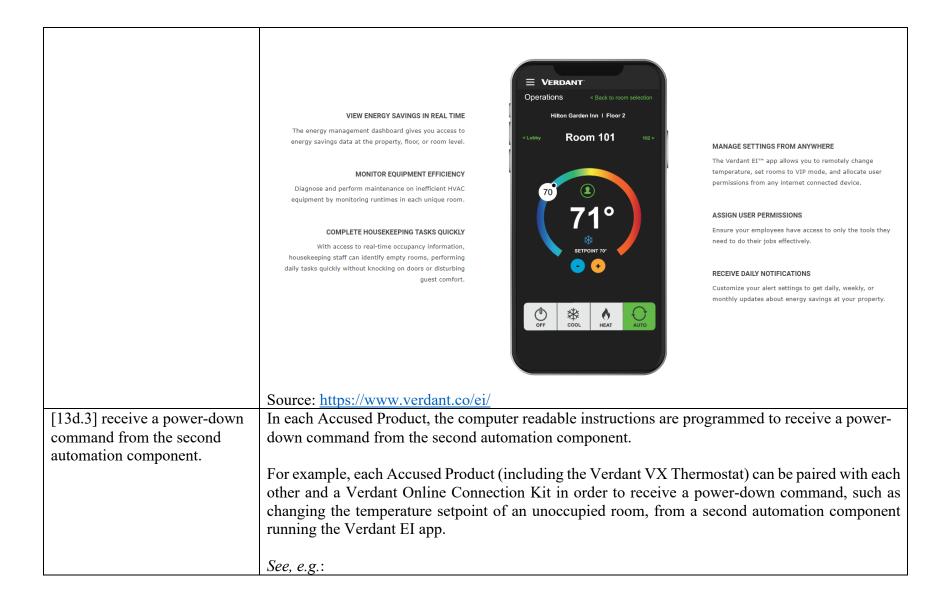
OPERATIONS

See each thermostat laid out on your floor plan and check current room temperature. Instantaneously adjust each room's setpoint when rooms are unoccupied and monitor humidity levels to prevent guest complaints.

USER MANAGEMENT

Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



Verdant's Proprietary 900MHz Communication Protocol

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All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

Source: https://www.verdant.co/knowledge-base/900mhz-protocol/

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OPERATIONS

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Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



Claim 14

Claim 14	Exemplary Infringement Evidence
[14] The automation	Each Accused Product comprises the automation component of claim 13, wherein the sensor
component of claim 13,	package includes one or more sensors selected from the group consisting of: a temperature sensor;
wherein the sensor package	a humidity sensor; a carbon monoxide sensor; a carbon dioxide sensor and a volatile organic
includes one or more sensors	compound sensor.
selected from the group	
consisting of: a temperature	For example, each Accused Product (including the Verdant VX Thermostat) includes temperature
sensor; a humidity sensor; a	and humidity sensors.
carbon monoxide sensor; a	
carbon dioxide sensor and a	See, e.g.:

volatile organic compound sensor.	savings v	without compromising g cy sensor allows for ener	t delivers unprecedented ener uest comfort. An Integrated gy saving when rooms are	rgy
	(Occupancy Sensor Beam Width	±47° (94°)	
	V	Vireless Frequency	902-928MHz	
	Т	emperature Accuracy	±1°F	
	pern Setb	nitted for establishing a	s for setting a maximum time comfortable room temperatu ors the temperature recovery eratures.	re.
		ack Limits control the m perature when a room is	aximum and minimum room in setback mode.	
		Point Limits prevent gues perature to extreme, ene	ets from setting the room ergy-wasting levels.	
	Source: https://www	v.verdant.co/wp-content/uploa	ads/2021/09/VX-TW-KT-W.pdf	

VERDANT THERMOSTAT COMPA	RISON				
				, Verdant ZX	Verdant VX
Wired		Yes	Yes		
Wireless		Yes	Yes		
Occupancy Detection		Yes	Yes		
Night Occupancy Mode		Yes	Yes		
Dynamic Intelligent Reco	very	Yes	Yes		
Display		e-paper	LCD		
Online Management		Yes	Yes*		
Humidity Control		Yes	Yes		
ource: https://d1-autl	h.climate.emerso	n.com/en-us	s/product	s/thermostats/thermo	<u>ostats</u>
Functionality	Sensor Funct	ionality Code			
Occupancy Sensor	10	00			
Sensor with Magnetic door switch	01	0*			

Claim 17

<u></u>				
Claim 17	Exemplary Infringement Evidence			

[17] The automation component of claim 13, wherein the computer readable instructions are further programmed to: communicate all of the stored sensor data corresponding to the received status information to the second automation component.

Each Accused Product comprises the automation component of claim 13, wherein the computer readable instructions are further programmed to communicate all of the stored sensor data corresponding to the received status information to the second automation component.

For example, all stored sensor data corresponding to the received status information from the Accused Product is communicated to the Verdant EI app.

See, e.g.:

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All thermostats and accessories communicate via 900MHz (RF) to one another, and each thermostat acts as a node in the network, thereby boosting the signal throughout the building. The data from each thermostat is received by the Online Connection Kit (OL-KT), which is hard-wired via ethernet cable to an open internet port on property.

Source: https://www.verdant.co/knowledge-base/900mhz-protocol/
https://www.verdant.co/knowledge-base/900mhz-protocol/

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USER MANAGEMENT

Easily add & remove staff access and adjust user permissions for each of your properties.

Source: https://www.verdant.co/wp-content/uploads/2021/09/Verdant-EI-Hospitality-brochure Sep2021.pdf



The energy management dashboard gives you access to energy savings data at the property, floor, or room level.

MONITOR EQUIPMENT EFFICIENCY

Diagnose and perform maintenance on inefficient HVAC equipment by monitoring runtimes in each unique room.

COMPLETE HOUSEKEEPING TASKS QUICKLY

With access to real-time occupancy information, housekeeping staff can identify empty rooms, performing daily tasks quickly without knocking on doors or disturbing guest comfort.



MANAGE SETTINGS FROM ANYWHERE

The Verdant EI[™] app allows you to remotely change temperature, set rooms to VIP mode, and allocate user permissions from any internet connected device.

ASSIGN USER PERMISSIONS

Ensure your employees have access to only the tools they need to do their jobs effectively.

RECEIVE DAILY NOTIFICATIONS

Customize your alert settings to get daily, weekly, or monthly updates about energy savings at your property.

Source: https://www.verdant.co/ei/

EXHIBIT C

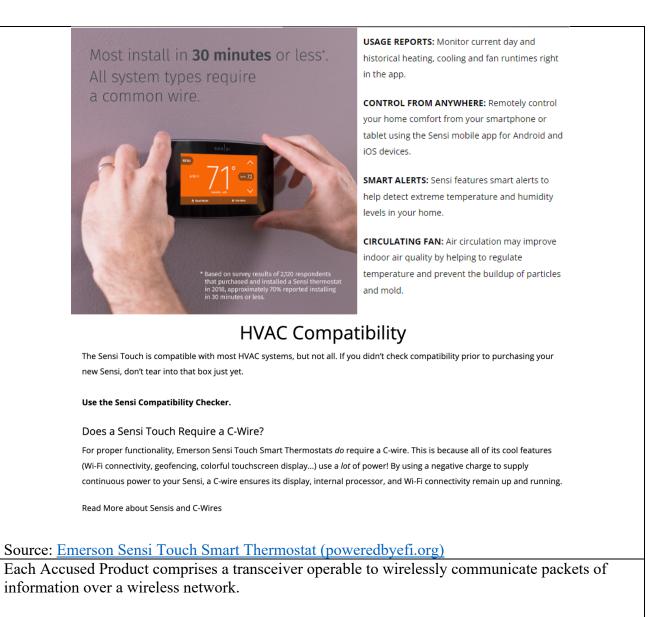
Emerson's Infringement of U.S. Patent No. 7,746,887 ("'887 Patent")

Accused Products

Emerson products, including without limitation the Emerson Touch Sensi Smart Thermostat ST55 and Sensi Touch Smart Thermostat ST75 ("Accused Products"), infringe at least Claims 1, 3, 4, 5, 6, 7, 8, 14, 15, and 18 of the '887 Patent.

Claim 1	Exemplary Infringement Evidence	
[1pre] A wireless automation device, comprising:	To the extent the preamble is limiting, each Accused Product includes a wireless automation device.	
	For example, each Accused Product (including the Emerson Sensi Touch Smart Thermostat (ST75)) is a wireless automation device.	
	See, e.g.:	
	SEN SI MENU 6:10PM Set To 71 What Provided the Fan Auto	
	Source: Sensi Touch smart thermostat Sensi US (emerson.com)	

	Display	4.3' full color LCD touch screen display
	Display	272 x 480 pixel display
		Width: 5.6 in
	8:	Height: 3.4 in
	Dimensions and weight	Depth: 1.1 in
		Weight: 8.6 oz
		Heating: 1, and 2 stages (W/E, W2)
		cooling: 1 and 2 stages (Y, Y2)
	System compatibility	Heat pump: With auxiliary and emergency heat (O/B, W/E, W2)
		Fan: (G)
		Power: (C, RH, RC)
		RC Y2 Rh W/E (AUX 1) G W2 (AUX 2) C O/B
	Wire terminals	G W2 (AUX 2) C O/B Y L Will Sensi work in my home?
		Wi-Fi 802.11b/g/n @ 2.4 GHz
	Wi-Fi & security	WPA and WPA 2 encryption methods
		Apple HomeKit
		Google Assistant
	Smart home integrations	Amazon Alexa
		Samsung SmartThings
		Wink
	Energy Star certified	Yes
	M. I.S.	Free app for iOS 10 or later and Android.
	Mobile app	Can control multiple thermostats from one account.
		Setpoint range: 45° to 99°F
	Temperature range	Display: 32° to 99°F
		operating: 32° to 150°F
	Humidity range	Display: 0% to 100% RH
		Wired: 20 to 30 VAC through terminals C and Rc or Rh
	Powering methods	NEC class II, 50/60 Hz
Sayraa, Sanai	Touch amout thous	ostat Sansi IIS (amarsan aam)
Source: Sensi	Touch smart therm	ostat Sensi US (emerson.com)



[1a] a transceiver operable to

packets of information over a

wirelessly communicate

wireless network;

For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) comprise a transceiver operable to wirelessly communicate over Wi-Fi.

See, e.g.:

Wi-Fi & security

Wi-Fi 802.11b/g/n @ 2.4 GHz

WPA and WPA 2 encryption methods

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

Home Screen Content

Toggle what you want to see on the display from this menu. You can display the current time, humidity or change from Fahrenheit to Celsius.

Wi-Fi

The Sensi app will instruct you how to connect Sensi to Wi-Fi. You can also turn Wi-Fi on or off at any time.

Turn Wi-Fi Off

If connecting to Wi-Fi is not an option, turn off Wi-Fi on the thermostat and manually set a time and a schedule from the unit.

- · Press Menu.
- · Press Wi-Fi.
- · Toggle Wi-Fi "Off."
- · Press the back arrow to return to the main screen.





Source: sensi-touch-smart-thermostat-manual-operation-guide-en-us-6356710.pdf (emerson.com)

[1b] a sensor operable to Each Accused Product comprises a sensor operable to generate a indicator for a sensed condition. generate a indicator for a sensed condition; For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) comprise at least temperature and humidity sensors operable to generate an indicator for a sensed condition. See, e.g.: Technical specifications 1 Menu Set temperature 3 System mode Advanced features & Scheduling Heat/Cool/Auto/Off (4) Humidity 5 Fan mode On/Auto Setpoint range: 45° to 99°F Display: 32° to 99°F Temperature range Operating: 32° to 150°F Humidity range Display: 0% to 100% RH



Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

SENSI ALERT	TRIGGER
High temperature:	Above 99°F
Low temperature:	Below 45°F
High humidity:	Above 70%
Loss of heat/cool:	Temp goes up or down 5°F during cycle

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

Alert Name	Triggered	
High Home Temperature	Temperature greater than 99°F	
Low Home Temperature	Temperature less than 45°F	
High Humidity	Humidity greater than 70%	
loss of Heating	Room temperature goes down 5°F during a heating demand	
Loss of Cooling	Room temperature goes up 5°F during a cooling demand	

Source: Are there smart alerts available with Sensi thermostats? | Sensi US (emerson.com)

Smart Alerts Smart Alert: Low Home Temperature If you received this email alert, your Sensi thermostat has indicated that your room temperature is at or below 45°F/7°C. Take action to ensure that your home is being properly heated. Houston, TX From Your Sensi App Open your Sensi app and make sure the word "Heat" in a circle appears in the lower-left corner of If the word "Off" appears instead, touch the word "Off" and then select "Heat" to set your thermostat to heating mode. The main screen of the Sensi app should turn red, indicating that the heating mode has been activated and your system is heating your home. Source: Smart Alert: Low Home Temperature | Sensi US (emerson.com) Smart Alerts Smart Alert: High Home Temperature If you received this email alert, your Sensi thermostat has indicated that your temperature is at or above 99°F/37°C. Take action to ensure that your home is being properly cooled. Source: Smart Alert: High Home Temperature | Sensi US (emerson.com) Smart Alert: Loss of Heating The Loss of Heating alert indicates that your home's temperature has lowered 5°F during an active heating cycle. Your heating system is not working effectively to increase the temperature in your home to your desired set thermostat. The cause may be as simple as a door or window that has been left open. If possible, check all doors/windows in the home. If your doors/windows are shut, check your system's power.

	Source: Loss of heating alert Sensi US (emerson.com) Smart Alerts
	Smart Alert: Loss of Cooling
	The Loss of Cooling alert indicates that your home's temperature has risen 5°F during an active cooling cycle. Your cooling system is not working effectively to decrease the temperature in your home to your desired set thermostat.
	The cause may be as simple as a door or window that has been left open. If possible, check all doors/windows in the home.
	If your doors/windows are shut, check your system's power.
	Source: Loss of cooling alert Sensi US (emerson.com)
[1c] a controller configured to poll the sensor at a polling interval to read the indicator during a current period of the	Each Accused Product comprises a controller configured to poll the sensor at a polling interval to read the indicator during a current period of the polling interval and to selectively operate the transceiver to communicate information associated with the reading of the indicator.
polling interval and to selectively operate the transceiver to communicate	For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) poll at least the temperature and humidity sensors, including in the context of a designated schedule.
information associated with the reading of the indicator; and	See, e.g.:

2019-06-27 12:26:41.645 [vent.ItenStateChangedEvent] - Patio_Temp changed from 80 to 81 www./var/log/spenhab2/spenhab.log 2019-06-27 12:26:41.646 [DEBUG] [pdb.internal.MapDBPersistenceService] - store called for Patio.Temp 2819-86-27 12:26:41.647 [DEBUG] [pdb.internal.MapDBPersistenceService] - Stored 'Patio Temp' with state '81' in mapdb database 2019-06-27 12:26:41.605 [OEBUG] [g.omnilink.handler.TempSensorHandler] - Aux Sensor Status AuxSensorStatus(super=Status(number=33), status=0, temp=124, heatSetpoint=0, coolSetpoint= 2019-06-27 12:26:41.688 [vent.ItemStateChangedEvent] - B_Bedroom_Temp changed from 73 to 72 *** /var/log/spenhab2/spenhab.log 2019-06-27 12:26:41.688 [DEBUG] [pdb.internal.MapDBPersistenceService] - store called for B_Bedroom_Temp 2019-06-27 12:26:41.692 [DEBUG] [pdb.internal.MapDBPersistenceService] - Stored 'B_Bedroom_Temp' with state '72' in mapdb database 2019-06-27 12:26:41.775 [DEBUG] [q.omnilink.handler.ThermostatHandler] - Thermostat Status ExtendedThermostatStatus(super=Status(number=2), humidity=0, humidity=0 Setpoint=186, outdoorTemp=144, extendedStatus=0, thermostatStatus=ThermostatStatus(super=Status(number=2), status=4, temperature=127, eatSetpoint=117, coolSetpoint=127, mode=2, fan=0, hold=0)) 2019-06-27 12:26:45.126 [DEBUG] [g.omnilink.handler.ThermostatHandler] - Thermostat Status ExtendedThermostatStatus(super=Status(number=1), humidity=0, humidity=0 Setpoint=106, outdoorTemp=144, extendedStatus=0, thermostatStatus=ThermostatStatus(super=Status(number=1), status=4, temperature=124, eatSetpoint=116, coolSetpoint=124, mode=2, fan=8, hold=8)) 2019-06-27 12:26:46.903 [DEBUG] [core.karaf.internal.FeatureInstaller] - Running scheduled sync job 2019-06-27 12:26:47.307 [OEBUG] [est.sitemap.internal.SitemapResource] - Run clean SSE subscriptions job 2019-06-27 12:26:47.309 [DEBUG] [.sitemap.internal.SitemapEventOutput] - Sent alive event to subscription 18:33016-165a-4f64-a3e9-2fc7467fac06. 2019-06-27 12:26:50.403 [ERROR] [ng.wink.handler.WinkBaseThingHandler] - PubNub Error PNBadRequestCategory 2019-06-27 12:26:50.404 [MARN] [nub.api.managers.ReconnectionManager] - reconnection policy is disabled, please handle reconnection manually. 2019-06-27 12:26:50.625 [ERROR] [ng.wink.handler.WinkBaseThingMandler] - PubNub timeout, reconnecting 2019-06-27 12:26:51.015 [DEBUG] [pdb.internal.MapDBPersistenceService] - store called for CurrentDate 2019-06-27 12:26:51.020 [DEBUG] [pdb.internal.MapDBPersistenceService] - Stored 'CurrentDate' with state '2019-06-27T12:26:51' in mapdb database www./var/log/openhab2/events.log 2019-06-27 12:26:51.022 [vent.ItemStateChangedEvent] - CurrentDate changed from 2019-06-27T12:25:51.013-0500 to 2019-06-27T12:26:51.013 eve /yar/los/spechabl/spechab.los 2019-06-27 12:26:51.023 [DEBUG] [pdb.internal.MapDBPersistenceService] - store called for CurrentTime 2019-06-27 12:26:51.024 [DEBUG] [pdb.internal.MapDBPersistenceService] - Stored 'CurrentTime' with state '2019-06-27T12:26:51' in mapdb database ==> /var/log/openhab2/events.log 2019-06-27 12:26:51.025 [vent.ItemStateChangedEvent] - CurrentTime changed from 2019-06-27T12:25:51.013-0500 to 2019-06-27T12:26:51.013 *** /var/log/openhab2/openhab.log 2019-06-27 12:27:00.689 [ERROR] [ng.wink.handler.WinkBaseThingHandler] - PubNub Error PMBadRequestCategory 2019-06-27 12:27:00.690 [MARN] [nub.api.managers.ReconnectionManager] - reconnection policy is disabled, please handle reconnection manually. 2019-06-27 12:27:00.920 [ERROR] [ng.wink.handler.WinkBaseThingHandler] - PubWub timeout, reconnecting Source: Emerson Sensi Thermostat - Hardware / Home Automation - openHAB Community Set up custom schedules Sensi™ smart thermostats let you create custom temperature schedules for each day of the week (up to seven independent schedules). This makes it easy to create one or multiple schedules to match your family's routine. Using Create Heat Schedule the Sensi mobile app, select the days you want to follow a specific schedule. Then choose the time and temperature set points for each. Create Auto Schedule For example, you can use Sensi's flexible scheduling to add custom schedules for school holidays, practice days, game nights and other school-related events. We make it easy to manage your home comfort on the go so you can get back to what matters

	Source: <u>Using Sensi thermostat settings and schedules Sensi US (emerson.com)</u>
	Thermostat Detail View
	After observing how users interact with our iOS and Android applications, we made usability enhancements to surface the most commonly-used features on the thermostat. We removed the side menu and replaced it with a tab bar on the bottom of the thermostat detail view. You can now access thermostat settings and scheduling quickly and easily.
	Settings Sack Home St. Louis, MO Settings Local weather
	Current temperature Indoor humidity — Humidity - 40% Set temperature
	Schedule timeline Schedule timeline Usage reports
	System mode Fan mode Scheduling Heat/Cool/Auto/Off On/Auto/Off
	Source: <u>Learn about your Sensi thermostat app Sensi US (emerson.com)</u>
[1d] a memory, the controller storing a reading of the indicator during the current period in the memory, where	Each Accused Product comprises a memory, the controller storing a reading of the indicator during the current period in the memory, where the memory stores at least one prior reading of the indicator, the prior reading of the indicator made during a prior period of the polling interval.
the memory stores at least one prior reading of the indicator, the prior reading of the	For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) store readings of at least temperature and humidity. For example, the Accused Products monitor HVAC behavior, which is based on readings over time.

indicator made during a prior period of the polling interval,	See, e.g.:	
	✓ View Usage	
	Monitor current day and historical heat cooling and fan runtimes right in the ap	
	Source: Sensi Touch smart thermostat Sensi US (emerson.com)	



Thermostat Detail View After observing how users interact with our iOS and Android applications, we made usability enhancements to surface the most commonly-used features on the thermostat. We removed the side menu and replaced it with a tab bar on the bottom of the thermostat detail view. You can now access thermostat settings and scheduling quickly and easily. Local weather Set temperature Indoor humidity Schedule timeline Usage reports System mode Fan mode Scheduling Heat/Cool/Auto/Off Source: Learn about your Sensi thermostat app | Sensi US (emerson.com) In each Accused Product, the transceiver is configured to transmit a most recent reading of the [1e] wherein the transceiver is configured to transmit a most indicator stored in the memory during a period of a transmission interval in response to detecting a recent reading of the indicator change in the sensed condition outside a predetermined range and wherein transmission of the stored in the memory during a most recent reading of the indicator stored in the memory during the period of the transmission period of a transmission interval is suspended in response to detecting a change in the sensed condition within the interval in response to predetermined range. detecting a change in the sensed condition outside a For example, alerts and notifications are sent in response to detecting a change in the sensed predetermined range and condition outside a predetermined range. wherein transmission of the most recent reading of the See, e.g.:

indicator stored in the memory during the period of the transmission interval is suspended in response to detecting a change in the sensed condition within the predetermined range.



Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

SENSI ALERT	TRIGGER
High temperature:	Above 99°F
Low temperature:	Below 45°F
High humidity:	Above 70%
Loss of heat/cool:	Temp goes up or down 5°F during cycle

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

Alert Name	Triggered	
High Home Temperature	Temperature greater than 99°F	
Low Home Temperature	Temperature less than 45°F	
High Humidity	Humidity greater than 70%	
loss of Heating	Room temperature goes down 5°F during a heating demand	
Loss of Cooling	Room temperature goes up 5°F during a cooling demand	

Source: Are there smart alerts available with Sensi thermostats? | Sensi US (emerson.com)

2. Temperature Limits

You can <u>set your Sensi smart thermostat</u> with parameters around the highest and lowest temperatures at which it can be set. If someone tries to adjust the temperatures outside of the pre-set parameters, the thermostat will show a "Limit" message. This is extremely useful if you have kids at home that try to adjust the temperature without permission, or someone else who may be occupying a space where you pay the utility bill.

Source: <u>Top 3 ways your Sensi smart thermostat can help you save energy | Sensi US (emerson.com)</u>

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www.sensicomfort.com



Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- $\bullet\,$ Your Sensi $^{\text{TM}}$ smart thermostat may not be set to the cooling mode
- Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.

[3] The wireless automation device of claim 1 where an upper limit and a lower limit of the predetermined range may be varied.

Each Accused Product comprises the wireless automation device of claim 1 where an upper limit and a lower limit of the predetermined range may be varied.

For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) send a loss of heating or loss of cooling alert when the temperature rises or falls 5°F during a heating or cooling demand. Since the starting temperature during a heating or cooling demand is arbitrary, this indicates that the upper and lower limit of the predetermined temperature range is varied.

See, e.g.:



Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

SENSI ALERT	TRIGGER
High temperature:	Above 99°F
Low temperature:	Below 45°F
High humidity:	Above 70%
Loss of heat/cool:	Temp goes up or down 5°F during cycle

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
Loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

Source: Are there smart alerts available with Sensi thermostats? | Sensi US (emerson.com)

Claim 4	Exemplary Infringement Evidence		
[4] The wireless automation	Each Accused Product comprises the wireless automation device of claim 3 where the upper limit		
device of claim 3 where the	and lower limit may be varied according to an analysis of the most current reading of the indicator		
upper limit and lower limit	and the at least one prior reading of the indicator.		
may be varied according to an			
analysis of the most current	For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat		
reading of the indicator and the	(ST75)) send a loss of heating or loss of cooling alert when the temperature rises or falls 5°F		
at least one prior reading of the	during a heating or cooling demand. Since the starting temperature during a heating or cooling		
indicator.	demand is arbitrary, this indicates that the upper and lower limit of the predetermined temperature		
	range is varied according to a prior reading of the temperature indicator.		
	See, e.g.:		
	See, e.g		
	Monitor HVAC system		
	Get smart alerts to help detect extreme		
	temperatures & humidity levels or loss of		
	heating/cooling.		

Source: Sensi Touch	h smart thermostat Sens	si US (emerson.com)
SENSI ALERT		TRIGGER
High temperature:		Above 99°F
Low temper	rature:	Below 45°F
High humid	ity:	Above 70%
Loss of head	t/cool:	Temp goes up or dow 5°F during cycle
Source: spec-sheet-s	sensi-touch-smart-therm	ostat-en-6309540.pdf (emerson.co
Source: spec-sheet-s		
Source: spec-sheet-s	Alert Name	Triggered
Source: spec-sheet-s	Alert Name High Home Temperature	Triggered Temperature greater than 99°F
Source: spec-sheet-s	Alert Name High Home Temperature Low Home Temperature	Triggered Temperature greater than 99°F Temperature less than 45°F
Source: spec-sheet-s	Alert Name High Home Temperature	Triggered Temperature greater than 99°F

Claim 5	Exemplary Infringement Evidence
[5] The wireless automation	Each Accused Product comprises the wireless automation device of claim 1 where the transceiver
device of claim 1 where the	is configured to transmit the most recent reading of the indicator stored in the memory during a
transceiver is configured to	period of the transmission interval in response to detecting a sensed condition beyond a band limit.
transmit the most recent	
reading of the indicator stored	For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat
in the memory during a period	(ST75)) send alerts and notifications in response to temperature or humidity going beyond a band

of the transmission interval in response to detecting a sensed condition beyond a band limit. limit. The temperature or humidity indicator reading is transmitted to the Sensi app during the alert, such as during a high temperature alert when the temperature exceeds 99°F.

See, e.g.:



Monitor HVAC system

Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

SENSI ALERT	TRIGGER
High temperature:	Above 99°F
Low temperature:	Below 45°F
High humidity:	Above 70%
Loss of heat/cool:	Temp goes up or down 5°F during cycle

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
Loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

Source: Are there smart alerts available with Sensi thermostats? | Sensi US (emerson.com)

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www.sensicomfort.com



Sensi Thermostat Alert

This message is to inform you that an alert has been generated from your Sensi Thermostat named **Sensi**.

Alert! High Temperature Detected

The temperature inside your home is greater than 99 degrees F/37 degrees C, which can be caused by the following:

- Your Sensi™ smart thermostat may not be set to the cooling mode
- · Power to your cooling equipment may have been lost
- Your cooling equipment may not be working properly

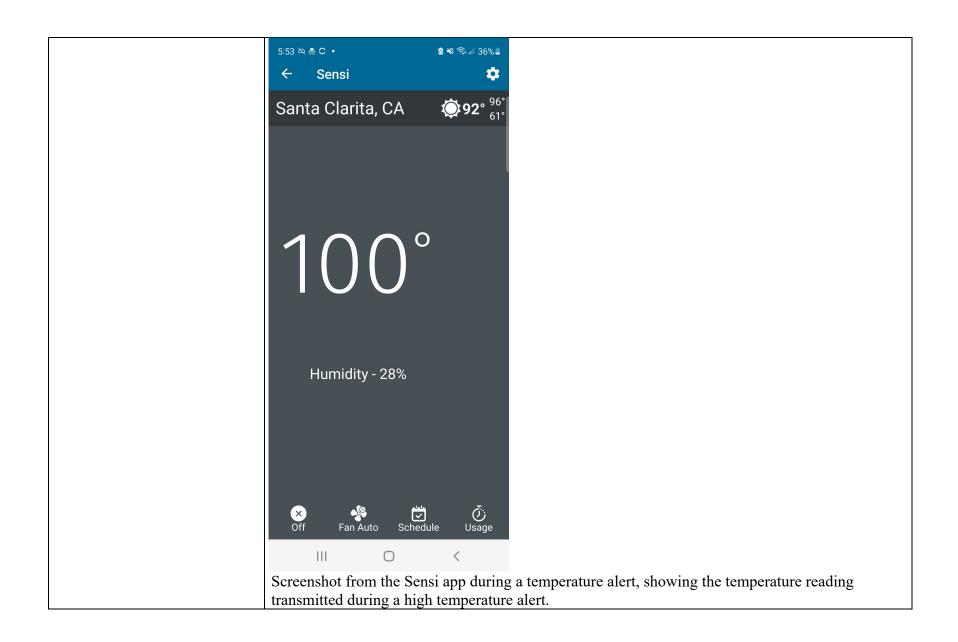
Please take action immediately to make sure your thermostat is set to the cooling mode and your cooling equipment is powered on.

Click here for more information, or contact your heating and cooling professional for an evaluation of your equipment.

If you have questions about your Sensi thermostat, we're here to help at support@sensicomfort.com.

Thank You!

Screenshot of a high temperature alert email notification.



Claim 6		Exemplary Infringement Evidence	
[6] The wireless automation device of claim 5 where an upper band limit and a lower	Each Accused Product comprises the wireless automation device of claim 5 where an upper band limit and a lower band limit may be varied. For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) send a loss of heating or loss of cooling alert when the temperature rises or falls 5°F during a heating or cooling demand. Since the starting temperature during a heating or cooling demand is arbitrary, this indicates that the upper and lower limit of the temperature band limit is varied.		
band limit may be varied.			
	See, e.g.:		
	A	Monitor HVAC system	
		Get smart alerts to help detect extreme temperatures & humidity levels or loss of heating/cooling.	
	Source: Sensi Touch smart thermostat Sensi US (emerson.com)		
	SENSI ALERT	TRIGGER	
	High temperature:	Above 99°F	
	Low temperature:	Below 45°F	
	High humidity:	Above 70%	
	Loss of heat/cool:	Temp goes up or down 5°F during cycle	
	Source: spec-sheet-sensi-tou	ach-smart-thermostat-en-6309540.pdf (emerson.com)	

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
Loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

Source: Are there smart alerts available with Sensi thermostats? | Sensi US (emerson.com)

Claim 7	Exemplary Infringement Evidence		
[7] The wireless automation	Each Accused Product comprises the wireless automation device of claim 5 where the upper band		
device of claim 5 where the	limit and lower band limit may be varied according to an analysis of the most current reading of		
upper band limit and lower	the indicator and the at least	one prior reading of the indicator.	
band limit may be varied			
according to an analysis of the	For example, the Accused Pr	oducts (including the Emerson Sensi Touch Smart Thermostat	
most current reading of the	` //	g or loss of cooling alert when the temperature rises or falls 5°F	
indicator and the at least one		emand. Since the starting temperature during a heating or cooling	
prior reading of the indicator.		cates that the upper and lower limit of the temperature band limit is	
	varied according to a prior re	ading of the temperature indicator.	
	G		
	See, e.g.:		
	A	Monitor HVAC system	
	45	Wollton Tivice System	
		Get smart alerts to help detect extreme	
		temperatures & humidity levels or loss of	
		heating/cooling.	
		neating/coomig.	

Source: Sensi Tou	ch smart thermostat Sens	si US (emerson.com)
SENSI ALERT		TRIGGER
High temperature:		Above 99°F
Low temp	erature:	Below 45°F
High hum	idity:	Above 70%
Loss of he	eat/cool:	Temp goes up or dow 5°F during cycle
Source: spec-sheet	t_sensi_touch_smart_therm	ostat-en-6309540 ndf (emerson o
Source: spec-sheet	t-sensi-touch-smart-therm	ostat-en-6309540.pdf (emerson.ce
Source: spec-sheet	t-sensi-touch-smart-therm	ostat-en-6309540.pdf (emerson.c
Source: spec-sheet		
Source: spec-sheet	Alert Name	Triggered
Source: spec-sheet	Alert Name High Home Temperature	Triggered Temperature greater than 99°F
Source: spec-sheet	Alert Name High Home Temperature Low Home Temperature	Triggered Temperature greater than 99°F Temperature less than 45°F

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Claim 8	Exemplary Infringement Evidence
[8] The wireless automation	Each Accused Product comprises the wireless automation device of claim 1 where the transceiver
device of claim 1 where the	is configured to transmit the most recent reading of the indicator stored in the memory in response
transceiver is configured to	to an externally-received transmission control signal received over the wireless network.
transmit the most recent	
reading of the indicator stored	For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat
in the memory in response to	(ST75)) transmit the most recent indicator of temperature and humidity to the Sensi app when

an externally-received wireless network connection is established. This indicates an externally-received control signal transmission control signal was received over the wireless network that prompted the transmission of the temperature and received over the wireless humidity indicator readings. network. See, e.g.: Thermostat Detail View After observing how users interact with our iOS and Android applications, we made usability enhancements to surface the most commonly-used features on the thermostat. We removed the side menu and replaced it with a tab bar on the bottom of the thermostat detail view. You can now access thermostat settings and scheduling quickly and easily. temperature Indoor humidity Schedule timeline Usage reports System mode Fan mode Scheduling Heat/Cool/Auto/Off On/Auto/Off Source: Learn about your Sensi thermostat app | Sensi US (emerson.com)

Claim 14	Exemplary Infringement Evidence

[14] The wireless automation device of claim 1 where the memory stores timing data associated with the most recent reading and the at least one prior reading of the indicator.

Each Accused Product comprises the wireless automation device of claim 1 where the memory stores timing data associated with the most recent reading and the at least one prior reading of the indicator.

For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) store readings of at least temperature and humidity. For example, the Accused Products monitor HVAC behavior and usage, which is based on readings with timing data.

See, e.g.:

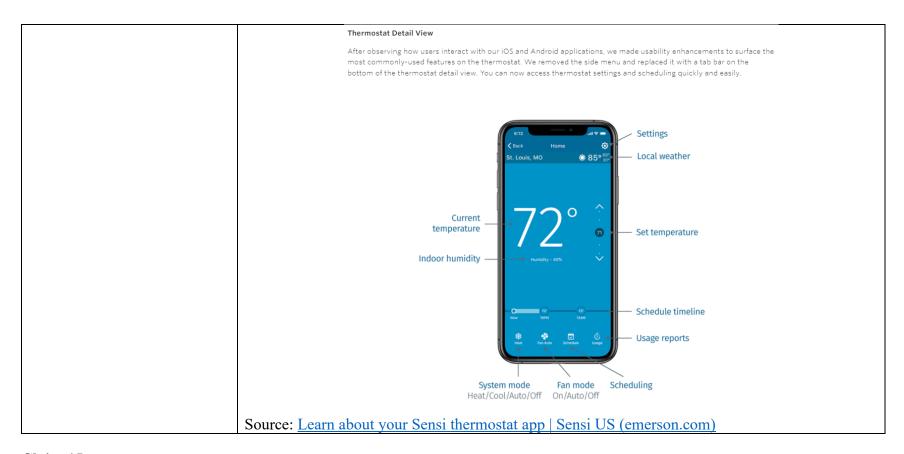


View Usage

Monitor current day and historical heating, cooling and fan runtimes right in the app.

Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

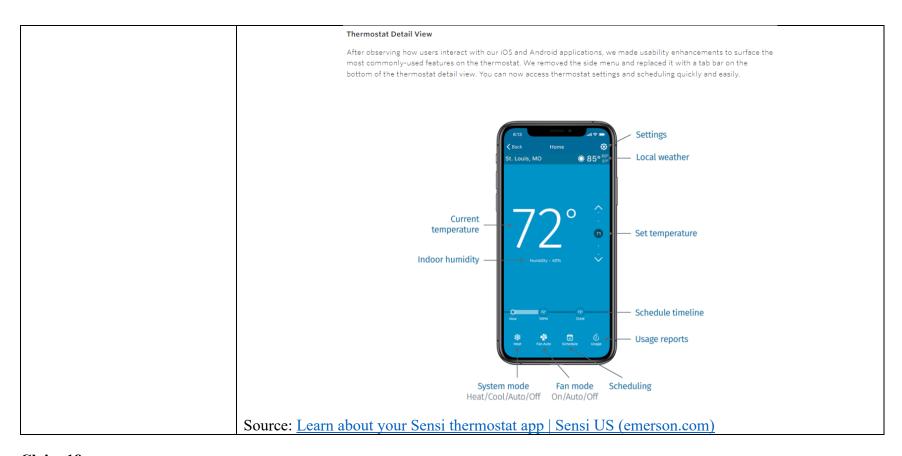




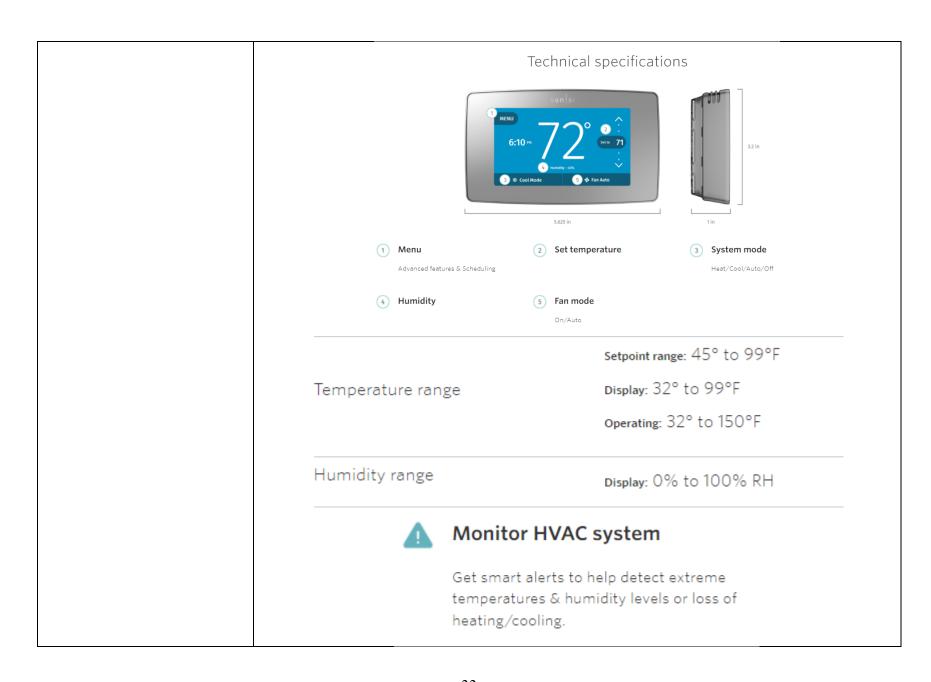
Claim 15	Exemplary Infringement Evidence
[15] The wireless automation device of claim 1 where the transceiver is configured to	Each Accused Product comprises the wireless automation device of claim 1 where the transceiver is configured to transmit the timing data.
transmit the timing data.	For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) store readings of at least temperature and humidity. For example, the Accused Products monitor HVAC behavior and usage, which is based on readings with timing data. HVAC behavior and usage is visible on the Sensi app, which indicates the transceiver transmits the timing data.

See, e.g.:	
₩.	View Usage
	Monitor current day and historical heating, cooling and fan runtimes right in the app.
Source: Sensi Touch smart t	hermostat Sensi US (emerson.com)





Claim 18	Exemplary Infringement Evidence
[18] The wireless automation device of claim 1, where the sensor is configured to sense	Each Accused Product comprises the wireless automation device of claim 1, where the sensor is configured to sense an environmental condition.
an environmental condition.	For example, the Accused Products (including the Emerson Sensi Touch Smart Thermostat (ST75)) sense the environmental conditions of at least temperature and humidity. See, e.g.:



Source: Sensi Touch smart thermostat | Sensi US (emerson.com)

SENSI ALERT TRIGGER

High temperature: Above 99°F
Low temperature: Below 45°F
High humidity: Above 70%

Loss of heat/cool: Temp goes up or down 5°F during cycle

Source: spec-sheet-sensi-touch-smart-thermostat-en-6309540.pdf (emerson.com)

Alert Name	Triggered
High Home Temperature	Temperature greater than 99°F
Low Home Temperature	Temperature less than 45°F
High Humidity	Humidity greater than 70%
loss of Heating	Room temperature goes down 5°F during a heating demand
Loss of Cooling	Room temperature goes up 5°F during a cooling demand

Source: Are there smart alerts available with Sensi thermostats? | Sensi US (emerson.com)