

Nuve Thermostat User Guide

July 21, 2023
(Draft 2)

User's Guide

Congratulations on Your Purchase

You are about to discover the power of the Nuve smart thermostat to revolutionize the way you control your home's comfort and energy usage. The Nuve smart thermostat is designed to automatically lower and raise the temperature in your home even when you're not there, saving you money on your energy bills without sacrificing your comfort. Change the temperature in your home, monitor the health of your HVAC system, and receive alerts for maintenance needs wherever you are. Nuve connects to your HVAC provider and monitors your HVAC system's health at the touch of a button.

Before You Begin

Make sure your heating and cooling system is operating properly.

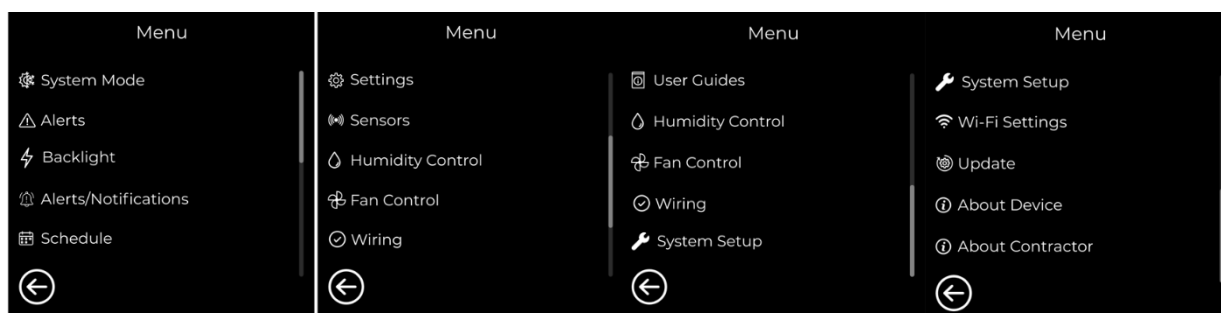
Make sure you have a working Wi-Fi network.

If you prefer the convenience of remote control, download the Mobile App.

Add the statement that for additional helpful information, please visit https://Nuvehome.com/user_guide. You can also use the QR code under the packaging lid to go to the Nuve home website.

Understanding the Menu Interface

The top-level menu is as follows:



Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

The following table summarizes the menu options:

Menu	Description
System Mode	Sets the HVAC operating mode: Cooling, Heating, Auto, Vacation, and OFF.
Backlight	Sets values for display background color and brightness.
Alerts/Notifications	Lists alerts about HVAC operational status and informative notifications.
Schedule	Manages temperature and humidity settings for selected time periods.
Settings	Sets values for display brightness, speaker volume, temperature units, and 12/24-hour clock.
Sensors	Manages remote temperature/humidity sensors and their properties.
Humidity Control	Sets the humidity range.
Fan Control	Sets the fan duty cycle.
Wiring	Shows the status of the thermostat wiring circuits.
User Guides	Provides access to the thermostat user guide on the Nuve website.
System Setup	Stands for manual setup of the system, such is System Type (Conventional, Heat pump, Cool or heat only) and defining the stages, accessories and system run delay time (1, 2 or 5 mins)
Wi-Fi Settings	Shows Wi-Fi network availability and status.
Update	Updates the thermostat software.
About Device	Displays the device related information such is: Model, FCC ID, IC, Serial #, Software and hardware versions and etc.
About Contractor	Lists contractor contact information, access to job request, and access to ServiceTitan.

Nuve Thermostat User Guide















July 21, 2023

(Draft 2)

Understanding the Home Page Display








The following table describes the elements of the Home Page.

	Set the temperature
	Sensor
	System mode
	Access all menu items and configurable options. <ul style="list-style-type: none">• : Touch to navigate forward through the menu interface.• : Touch to navigate backward through the menu interface.• Save/Set: Tap to confirm selections.• Cancel: Tab to discard selections.
	Schedule/vacation settings
	Wi-Fi signal strength and connection status <ul style="list-style-type: none"> - No internet connection - No Wi-Fi connection - Full strength Wi-Fi signal - Medium strength Wi-Fi signal - Low strength Wi-Fi signal
	Fan control sets the fan duty cycle.

Nuve Thermostat User Guide

July 21, 2023
(Draft 2)


	Humidity control
	Maintain current Home Screen settings overriding any scheduled rules.
	Contractor's Logo: About, Request a Job, and access to ServiceTitan, if applicable
	Time and date from the Nuve server.
	Air quality based on CO2e sensor reading.

Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

Managing Wi-Fi Networks

The Wi-Fi Settings menu shows the available Wi-Fi networks to which to connect. The Wi-Fi connection is active when  appears in the Home Page. After you connect, the system saves the network connection so that thermostat automatically connects to that network.

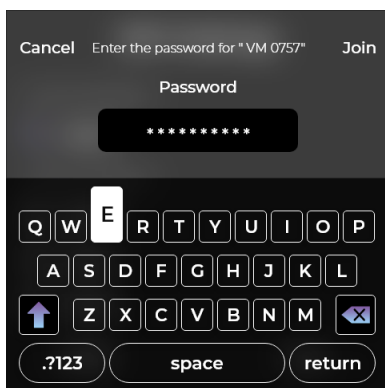
Connecting to a Wi-Fi Network

To connect to a Wi-Fi network:

1. In the Menu, tap **Wi-Fi Settings**.
2. In the Wi-Fi Settings page, tap an available network, and then tap **Connect**.



3. In the keyboard page, enter the network password, and then tap **Join**.



Nuve Thermostat User Guide

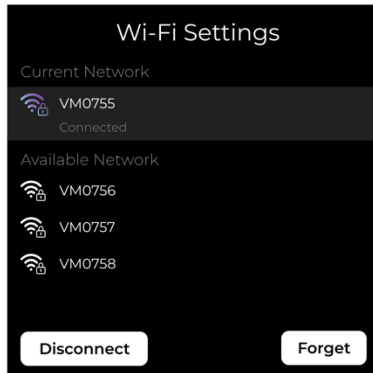
July 21, 2023

(Draft 2)

Disconnecting from a Wi-Fi Network

To disconnect from a Wi-Fi network:

1. In the Menu, tap **Wi-Fi Settings**.
2. In the Wi-Fi Settings page, tap the connected network, and then tap **Disconnect**.



To remove the network from the list of available networks, tap **Forgot**. When the system prompts you to confirm, tap **Forgot**.

Nuve Thermostat User Guide

July 21, 2023
(Draft 2)

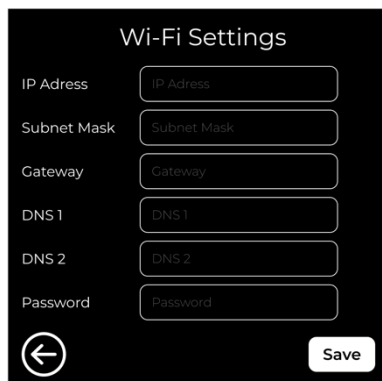
Editing a Network

To edit a Wi-Fi network:

1. In the Menu, tap **Wi-Fi Settings**.
2. In the Wi-Fi Settings page, tap **Manual**.



3. In the Wi-Fi Settings page, tap the following fields, enter values, and then tap **Save**:
 - IP Address
 - Subnet Mask
 - Gateway
 - DNS 1
 - DNS 2
 - Password



Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

Setting Up the System

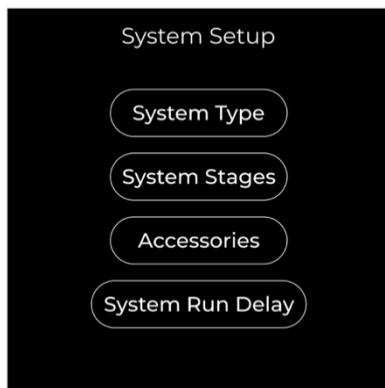
The technician sets up the system at installation. The system setup comprises the following:

- System Type
- System Stages
- Accessories
- System Run Delay

System Type

The system type defines the HVAC system: Traditional, Heat Pump, Cool Only, and Heat Only. To change the system type:

1. In the System Setup page, tap **System Type**.



2. In the System Type page, tap the one of the following options:

- **Traditional**
- **Heat Pump**
- **Cool Only**
- **Heat Only**

Refer to the corresponding section for details on each system type.

Nuve Thermostat User Guide

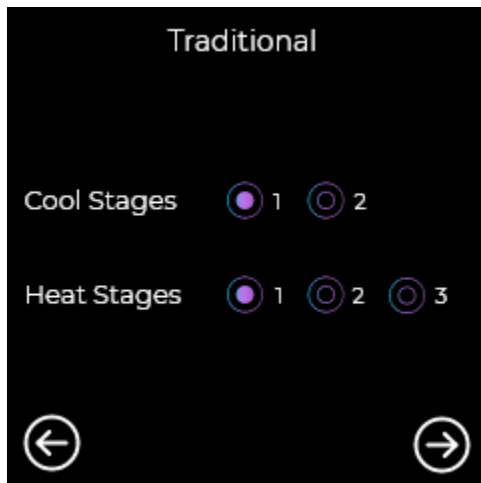
July 21, 2023

(Draft 2)

Traditional

Tap **Traditional** for traditional HVAC systems that cool and heat. In the Traditional page, select the appropriate values for Cold Stages and Heat Stages, and then tap ➔.

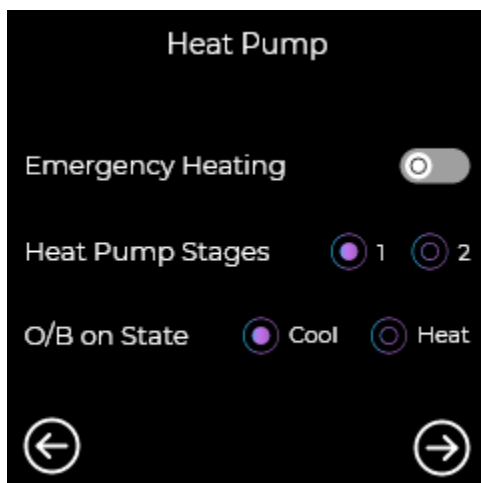
- **Cool Stages:**
- **Heat Stages:**



Heat Pump

Tap **Heat Pump** for a heat pump. In the Heat Pump page, select the appropriate emergency heating, stage, and O/B On State.

- **Emergency Heating:** Tap this option
- **Heat Pump Stages:** Tap this option
- **O/B on State:** Tap this option to



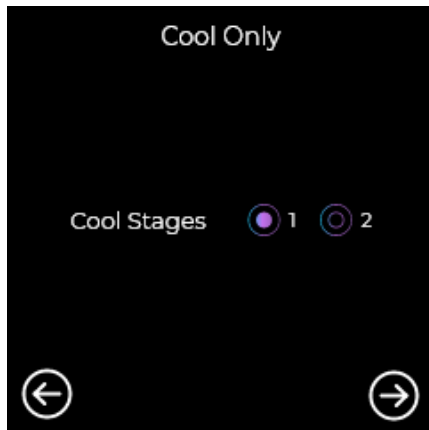
Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

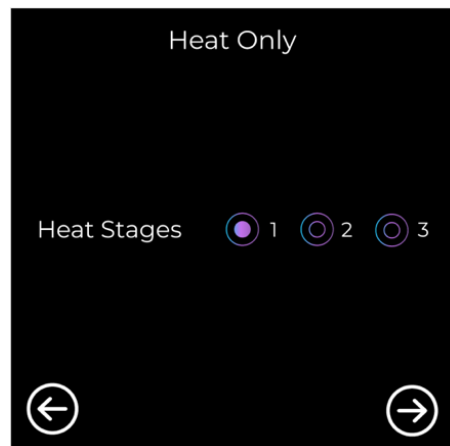
Cool Only

Tap **Cool Only** for an HVAC system that cools, but does not heat. In the Cool Only page, tap the number (1 or 2) that defines the cool stage.



Heat Only

Tap Heat Only for an HVAC system the heats, but does not cool. In the Heat Only page, tap the number (1, 2 or 3) that defines the heat stage.



Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

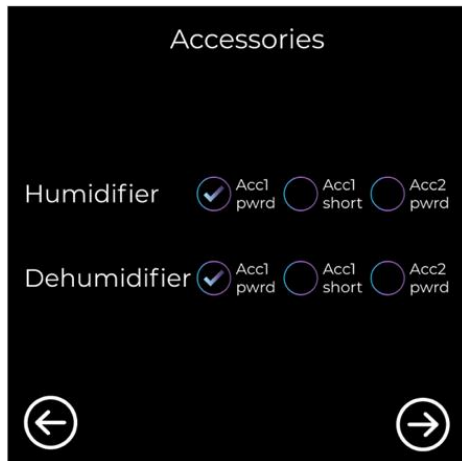
System Stages

In the System Setup page, tap **System Stages** to specify the stages and operating parameters for the selected system type:

Accessories

If your system has a humidifier or a dehumidifier, in the System Setup page, tap **Accessories**. In the Accessories page, specify the humidifier/dehumidifier characteristics:

- **Acc1 pwr:**
- **Acc1 short:**
- **Acc2 pwr:**



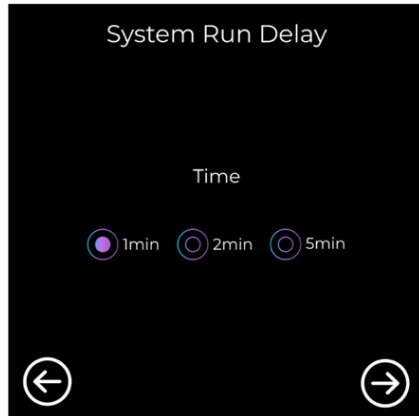
Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

System Run Delay

To set a system run delay time, in the System Setup page, tap **System Run Delay**. The system run delay is the rest time that the system imposes when changing between stages or between heating and cooling. The default is 5 minutes. In the System Run Delay page, tap the delay time: **1min**, **2min**, **5min**.



Nuve Thermostat User Guide

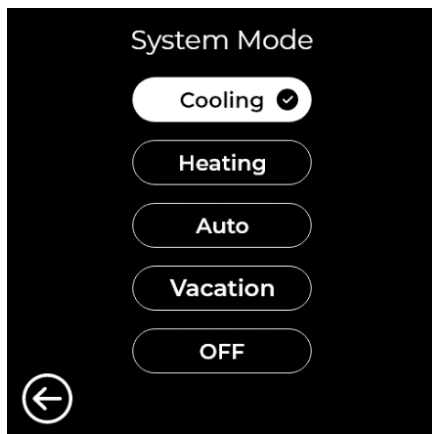
July 21, 2023

(Draft 2)

Setting the System Mode

The system mode determines how the HVAC system operates - for cooling only, heating only, automatic heating and cooling, vacation, or off. To set the system mode:

1. In the Menu, tap **System Mode**.
2. In the System Mode page, tap one of the following:
 - **Cooling**: The HVAC system cools, but does not heat.
 - **Heating**: The HVAC system heats, but does not cool.
 - **Auto**: For year-round heating and cooling.
 - **Vacation**: Applies vacation temperature and humidity settings. Tap this option before leaving on vacation. When you return, tap this option to resume normal operation. See [Enabling and Disabling Vacation Mode](#).
 - **Off**: Turn the HVAC system off for maintenance.



Nuve Thermostat User Guide

July 21, 2023

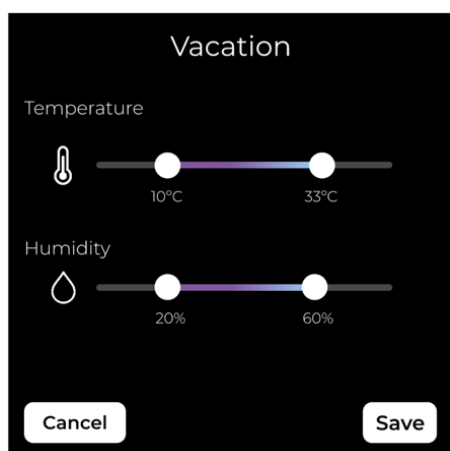
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Enabling and Disabling Vacation Mode

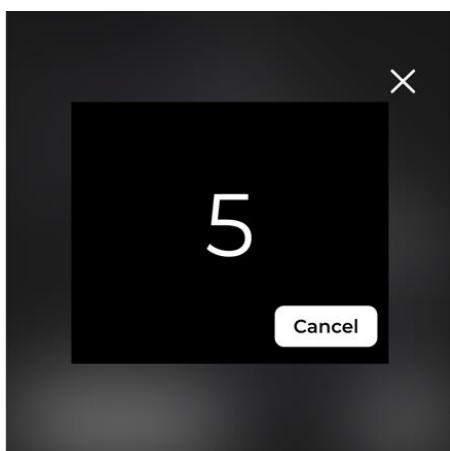
Tapping Vacation in the System Mode page opens the Vacation page. From here you can define and apply vacation conditions or resume normal operations.

To apply vacation conditions:

1. In the Vacation page, position slides for the upper and lower temperature thresholds. If your HVAC system has a humidifier and/or a dehumidifier, set the humidity thresholds.



2. Tap **Save** to apply the current Vacation mode thresholds. Tap **Cancel** to save the threshold values and return to the System Mode menu. If you tap **Save**, the system begins a countdown. When the countdown finishes, the vacation conditions are in effect. At any time during the countdown, you tap **Cancel** to stop the process.

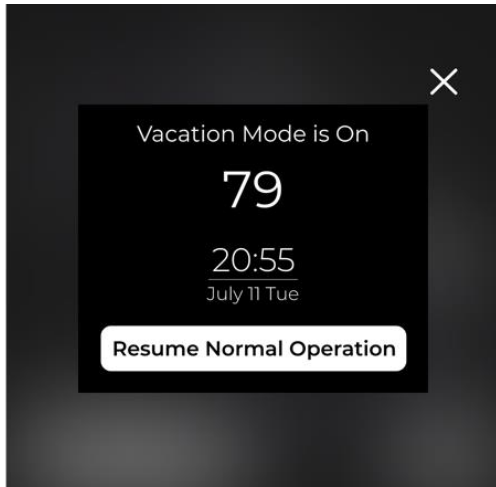


Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

3. When you return from vacation, tap **Vacation**. The system prompts you to resume normal operations. Tap **Resume Normal Operations**.



Nuve Thermostat User Guide

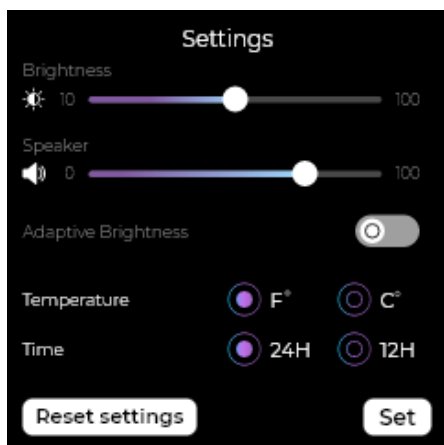
July 21, 2023

(Draft 2)

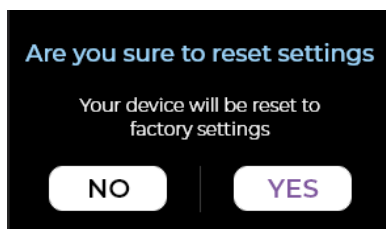
Configuring Menu Settings

Thermostat menu settings include screen brightness, speaker volume, temperature units, and a 12- or 24-hour clock. To change the thermostat settings:

1. In the Menu, tap **Settings**.
2. In the Settings page, tap to change the following settings:
 - **Brightness**: Move the slide left to right to increase the display brightness.
 - **Speaker**: Move the slide left to right to increase the speaker volume.
 - **Temperature**: Tap **F°** (Fahrenheit) or **C°** (Celsius).
 - **Time**: Tap **24H** for a 24-hour clock; **12H** for a 12-hour clock.
3. Click **Set**. To restore the thermostat to the factory settings, tap **Reset settings**.



3. When prompted, tap **Yes** to confirm your changes.



Nuve Thermostat User Guide

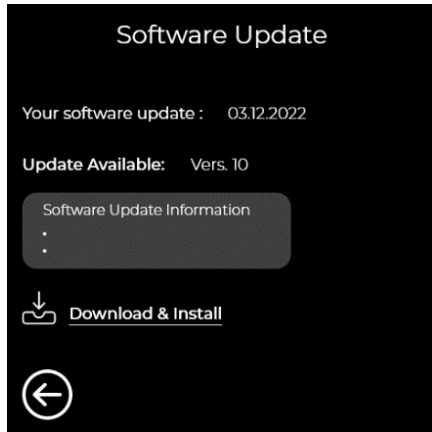
July 21, 2023

(Draft 2)

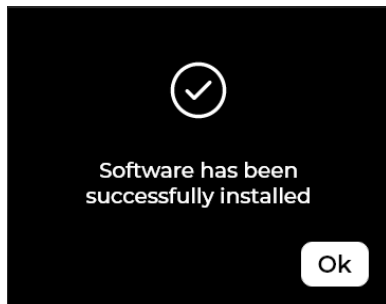
Updating the Software

To update thermostat software:

1. In the menu, select **Update**.
2. In the Software Update page, if an update is available, tap **Download & Install**.



3. The system informs you when the update completes successfully. Otherwise, the system informs you that the update was interrupted, prompting you to continue (**Ignore**) without the update or to try again (**Retry**).




Nuve Thermostat User Guide

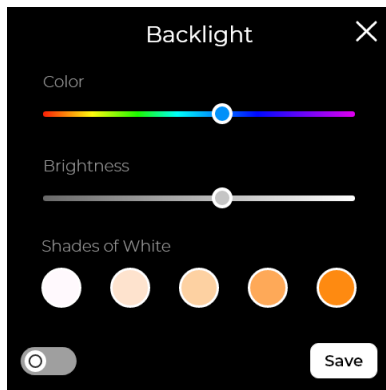
July 21, 2023

(Draft 2)

Configuring the Display

To set the display background color and brightness:

1. In the Menu, tap **Backlight**.
2. In the Backlight page, move the color and brightness slides to achieve the appearance that you want. To turn the backlight on and off, tap .



3. Tap **Save**.

To change the display content brightness, see [Configuring Menu Settings](#).

Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

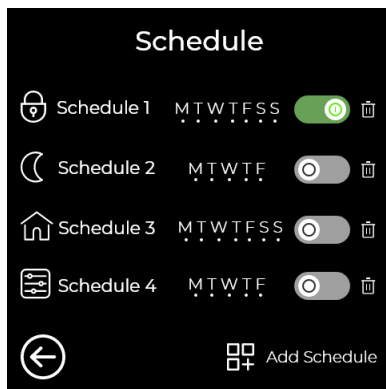
Managing Schedules

Schedules specify weekly temperature conditions for selected days and times that override the default conditions.

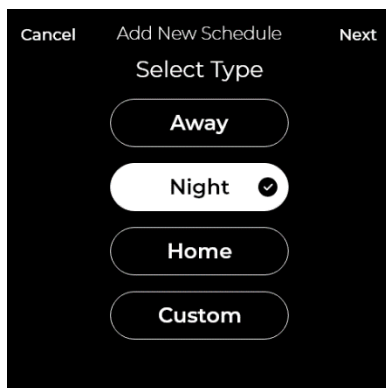
Adding Schedules

To add a schedule:

1. In the Menu, tap **Schedule**.
2. In the Schedule page, tap **Add Schedule**.



3. In the Add New Schedule page, tap a schedule type, and then tap **Next**. To exit the schedule process at any time, click **Cancel**.

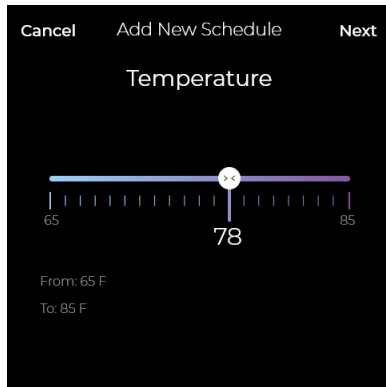


Nuve Thermostat User Guide

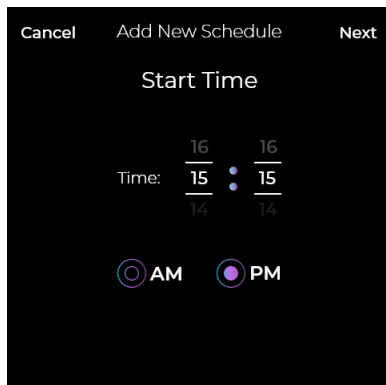
July 21, 2023

(Draft 2)

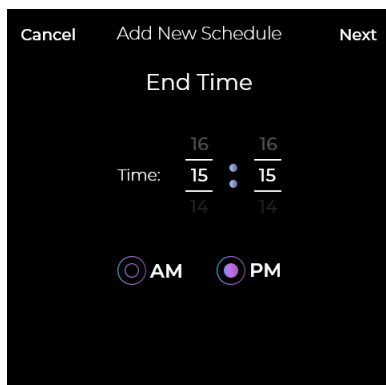
4. In the Temperature page, move the slide to the scheduled temperature, and then tap **Next**.



5. In the Start Time page, tap the time (hour and minutes) at which to apply the scheduled temperature. Tap **AM** or **PM**, and then tap **Next**.



6. In the End Time page, tap the time (hour and minutes) at which to end the scheduled temperature. Tap **AM** or **PM**, and then tap **Next**.



Nuve Thermostat User Guide

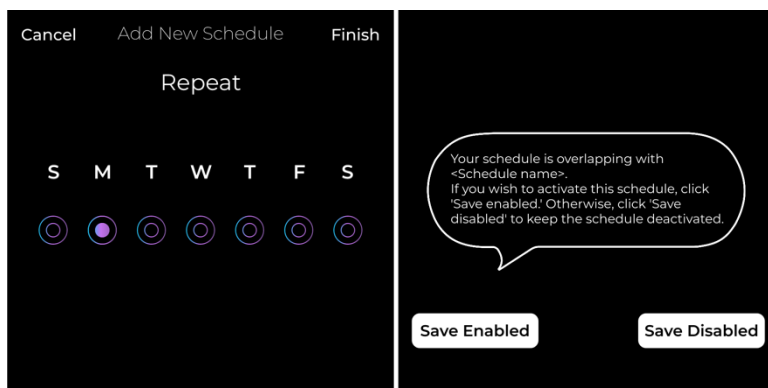
July 21, 2023

(Draft 2)

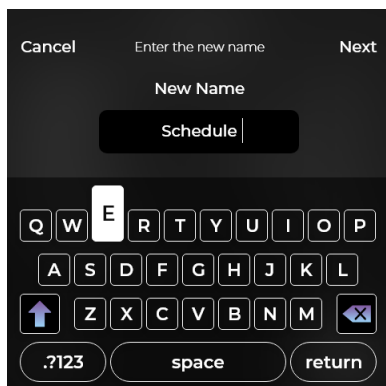
7. In the Data Source page, tap the sensor to use in discerning thresholds.



8. In the Repeat page, tap the days of the week to which to apply the schedule, and then click **Finish**. If there is a schedule overlap, the system prompts you to save and activate the new schedule (**Save Enabled**) or save the new schedule, but leave the current schedule active (**Save Disabled**).




9. In the New Name page, tap the alphanumeric keys to enter a new name, and then tap **Next**.

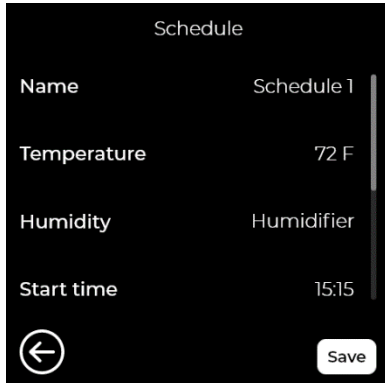



Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

10. The system presents a summary of the new schedule. Scroll up/down to view the schedule details.
Click **Save** to save the schedule, or click to  to back out.



Schedule	
Name	Schedule 1
Temperature	72 F
Humidity	Humidifier
Start time	15:15
<div> Save</div>	

Nuve Thermostat User Guide

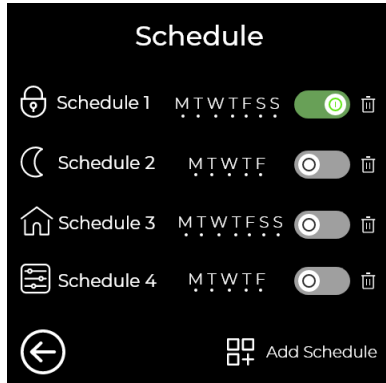
July 21, 2023

(Draft 2)

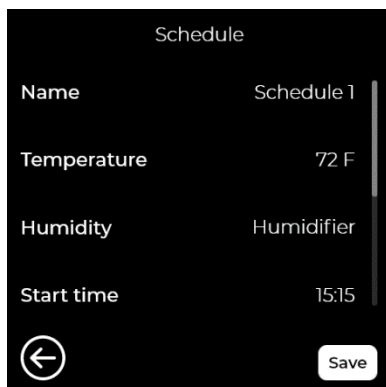
Editing a Schedule

To edit a schedule:

1. In the Menu, tap **Schedule**.
2. In the Schedule page, tap a schedule name.



3. In the Schedule page, tap a schedule property.



4. In the property page, make the changes, and then tap **Next**.
5. In the Schedule page, tap **Save**.

Nuve Thermostat User Guide

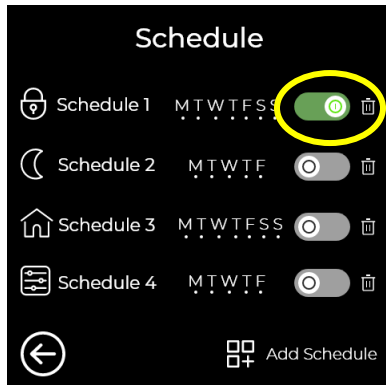
July 21, 2023

(Draft 2)

Activating a Schedule

To activate a schedule:

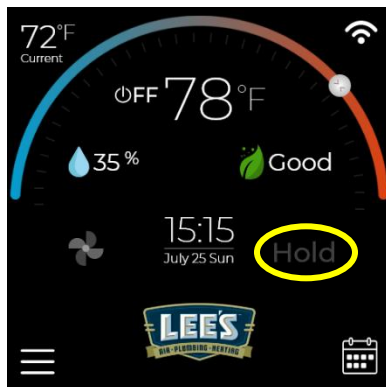
1. In the Menu, tap **Schedule**.
2. In the Schedule page, choose a schedule, and then enable the activation switch.



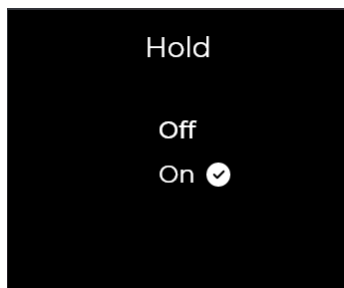
Pausing the Active Schedule

To pause the active schedule and restore normal conditions:

1. Click **Hold** in the Home Page.



2. In the Hold page, tap **On**. To resume schedules, tap **Off**.



Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

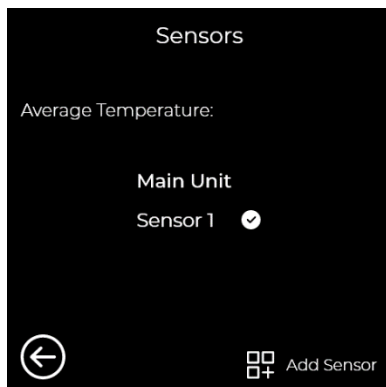
Managing Sensors

Managing sensors comprises viewing sensor data, editing sensor name, editing sensor location, and adding a sensor.

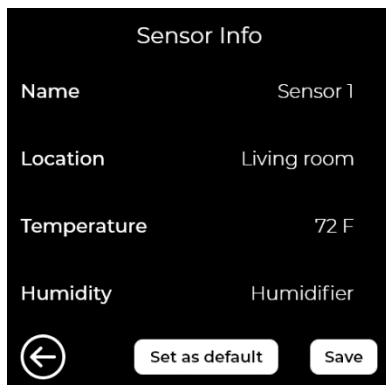
Viewing Sensor Information

To view sensor information:

1. In the Menu, tap **Sensors**.
2. In the Sensors page, tap the sensor for which to show information.



3. The sensor information appears on the Sensor Info page.



Nuve Thermostat User Guide

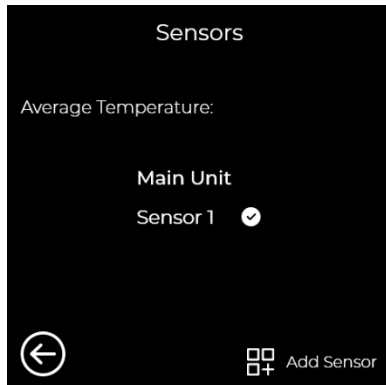
July 21, 2023

(Draft 2)

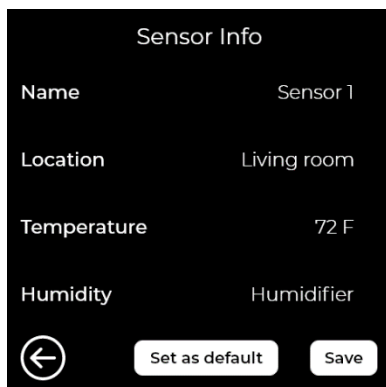
Editing the Sensor Name


To edit the sensor name:

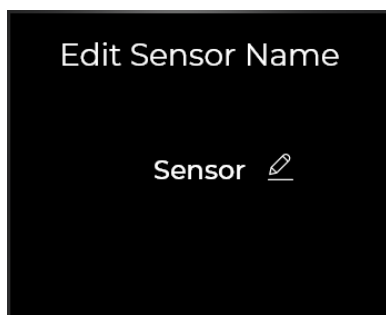
1. In the Menu, tap **Sensors**.
2. In the Sensors page, tap the sensor that you want to edit.



3. In the Sensor Info page, tap the **Location** field.



4. In the Edit Sensor Name page, tap the edit icon .



Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

5. In the New Name page, tap the alphanumeric keys to enter a new name, and then tap **Save**.



6. The Sensor Info page presents the updated sensor information. Tap **Save**.

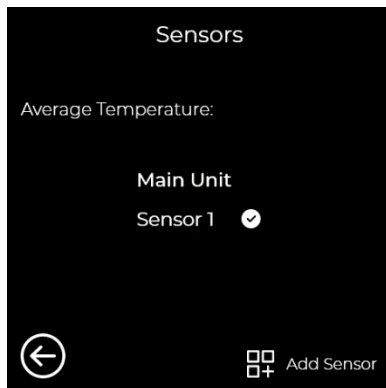
Nuve Thermostat User Guide

July 21, 2023

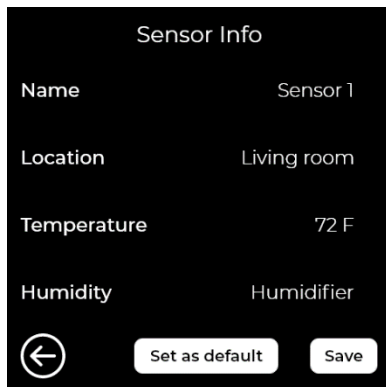
(Draft 2)


Editing the Sensor Location

1. In the Menu, tap **Sensors**.
2. In the Sensors page, tap the sensor that you want to edit.



3. In the Sensor Info page, tap the **Location** field.



4. In the Edit Location Name page, tap the edit icon .

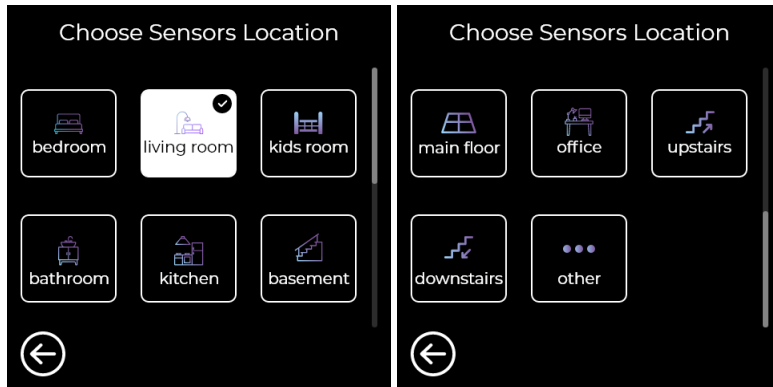


Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

5. In the Choose Sensors Location page, tap the sensor location.

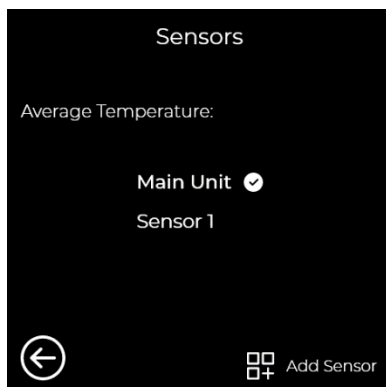


7. The Sensor Info page presents the updated sensor information. Tap **Save**.

Adding a Sensor

To add a remote sensor:

1. In the Menu, tap **Sensors**.
2. In the Sensors menu, tap **Add Sensor**.

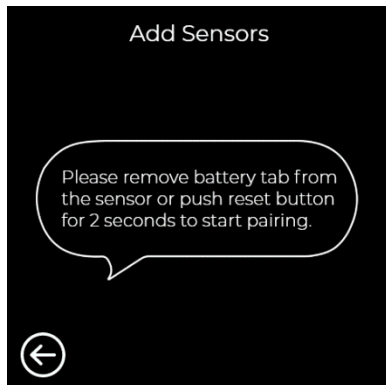


Nuve Thermostat User Guide

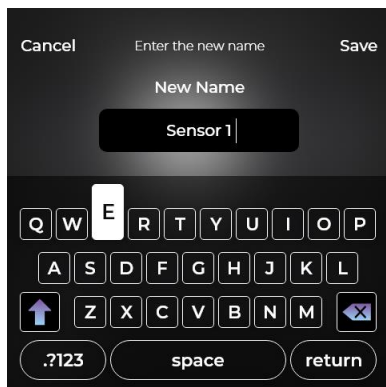
July 21, 2023

(Draft 2)

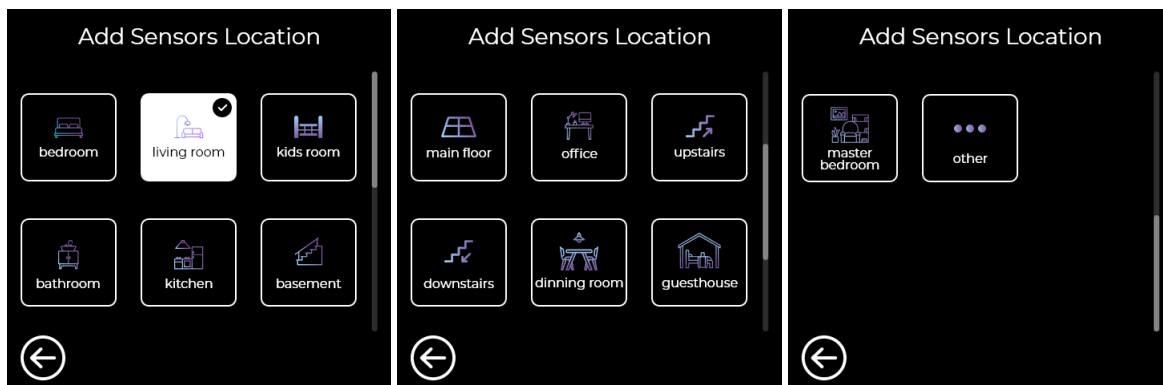
3. Pair the sensor with the Nuve thermostat. The system prompts you to remove the battery tab from the sensor or press and hold the reset button for two seconds.



4. When the sensor pairs with the thermostat, the system prompts you to name the sensor. Enter a name for the sensor, and then tap **Save**.



5. In the Add Sensors Location, tap a location option. Scroll to see all of the location options.



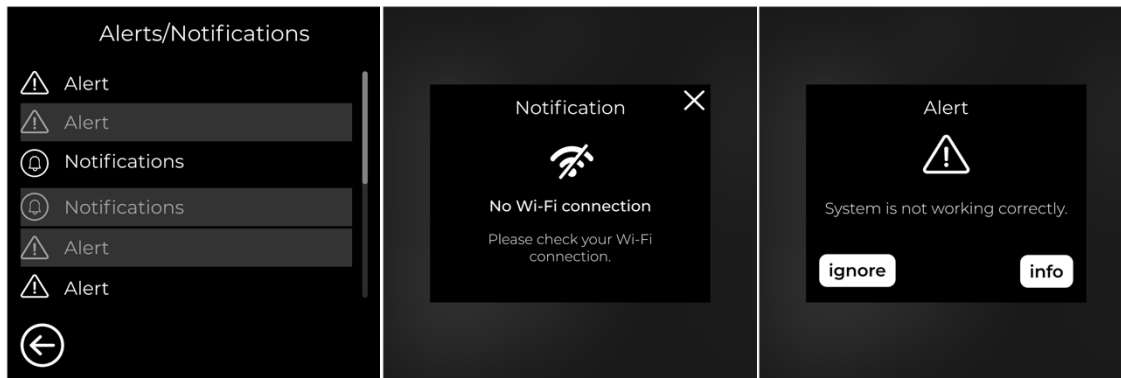
Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

Alerts and Notifications

To display the list of alerts and notifications, tap Alerts/Notifications in the main menu. In the Alerts/Notification page, you tap on selected entries to display more information.



Nuve Thermostat User Guide

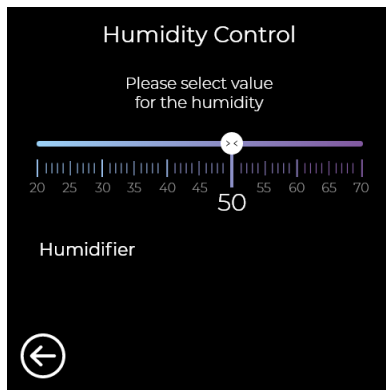
July 21, 2023


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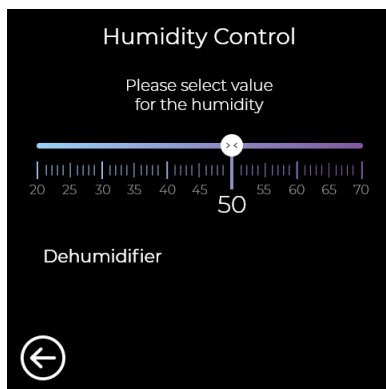
Setting Humidity Range

If your HVAC is equipped with a humidifier and/or a dehumidifier, you can set the humidity range:

1. In the Menu, select **Humidity Control**.
2. In the humidifier page, move the slide to set the humidity percentage below which to humidify the air.



3. In the dehumidifier page, move the slide to set the humidity percentage above which to dehumidify the air. When you are done, tap .



Nuve Thermostat User Guide

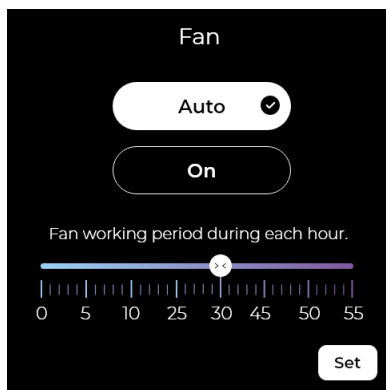
July 21, 2023

(Draft 2)

Setting the Fan Duty Cycle

To set the fan duty cycle:

1. In the Menu, tap **Fan Control**.
2. In the Fan page, do one of the following:
 - Tap **On** to run the fan continuously.
 - Tap **Auto**, and then set the slide to specify the working period during each hour.
3. Tap **Set**.



Accessing User's Guides

To access User's Guides on the Nuve Website:

1. In the Menu, tap **User Guides**.
2. In the User Guides page, scan the QR code with a smart device to go to the Nuve Website.



Nuve Thermostat User Guide

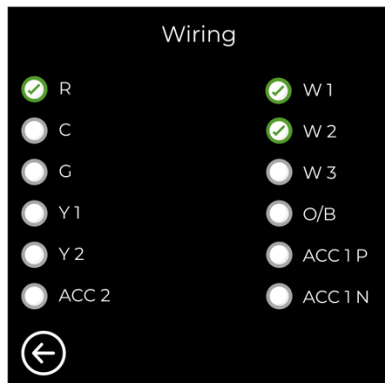
July 21, 2023

(Draft 2)

Displaying Wiring Connections

To display the thermostat wiring connections:

1. In the Menu, tap **Wiring**.
2. Review the Wiring page.



Troubleshooting

Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

Requesting Service

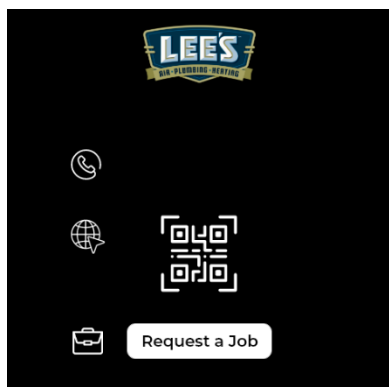
You can request service for your thermostat from your contractor through the user interface. The system directs ServiceTitan customers to ServiceTitan.

To request service on your thermostat:




1. In the Menu, tap **About**. You can also tap the contractor logo on the Home Page.



2. In the contractor page, do the following:
 - a. Tap **Request a Job** to submit a job request to the contractor.
 - b. In the Request a Job Priority page, choose a priority, **Urgent** or **Regular**.



From the contractor page, you can also do the following:

- Scan the QR code with a smart device to open the contractor website.
- Tap  to obtain the contractor's phone number.
- Tap  to find the nearest contractor.
- Tap  to request a job.

Nuve Thermostat User Guide

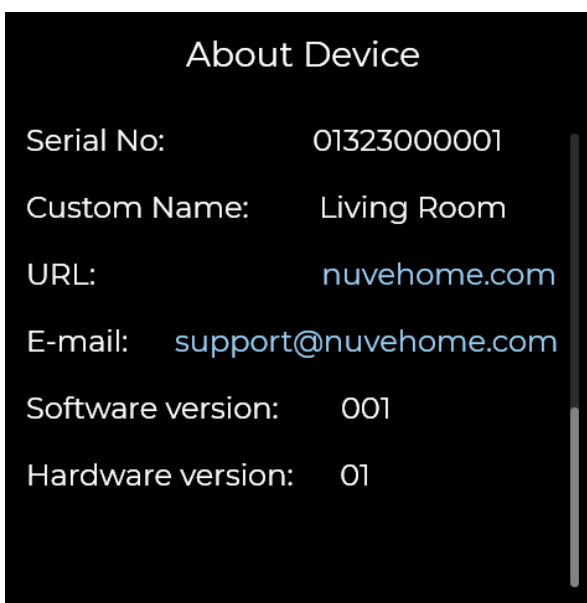
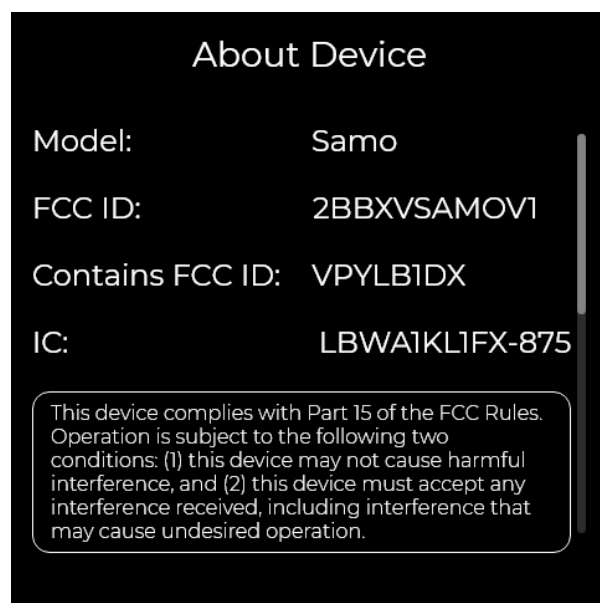
July 21, 2023

(Draft 2)

Displaying Thermostat Information

To display thermostat information. Tap **About Device** in the main menu. The following information is available:

- Model
- FCC ID
- Contains FCC ID (related to Wi-Fi module that also has own FCC ID)
- IC
- Serial Number
- Custom Name
- URL
- E-mail address
- Software version
- Hardware version



Nuve Thermostat User Guide

July 21, 2023

(Draft 2)

FCC Regulations

1. FCC Compliance Information:

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Regulatory Compliance:

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

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

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

2. FCC Radiation Exposure Statement:

Radiation Exposure:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. For optimal safety, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Transmitter Placement:

To ensure compliance with FCC regulations, this transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Remember to integrate this information seamlessly into your User Manual, making sure it is easy to understand and clearly visible for users. Always prioritize the safety and proper usage of your product