



YoLink Thermostat 2

YS4004-UC



Installation & User Guide

Revision Jun. 02, 2026

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Welcome!

Thank you for purchasing YoLink products! We appreciate you trusting YoLink for your smart home & automation needs. Your 100% satisfaction is our goal. If you experience any problems with your installation, with our products or if you have any questions that this manual does not answer, please contact us right away. See the Contact Us section for more info.

Thank you!

YoLink Customer Support

User Guide Conventions

The following icons are used in this guide to convey specific types of information:



Very important information
(can save you time!)



Good to know info but may not
apply to you

B Before You Begin

Visit our YoLink Thermostat 2 support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

<https://www.yosmart.com/support/YS4004-UC>

Or by scanning the QR code:



Download the most current version of the user guide by scanning the QR code:



B Before You Begin, Continued



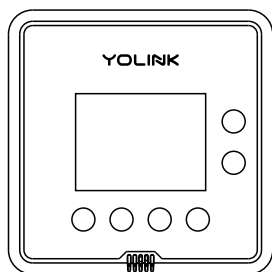
Before you begin installation, please note, the Thermostat requires a C (Common) wire. It will not function without a C wire. If the thermostat location does not have a C wire, a new C wire, or a C wire adapter, must be installed. Please contact us for additional information and technical support on this topic.

This thermostat works with common 2-stage 24 volt AC systems such as forced air, hydronic, heat pump, oil, gas, and electric. It will not work with millivolt systems, such as a gas fireplace, or with 120/240 volt systems such as baseboard electric heat.

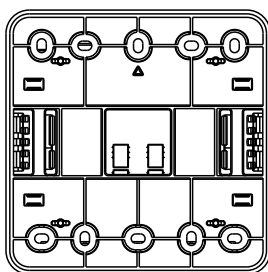
Your Thermostat connects to the internet via a YoLink hub, and it does not connect directly to your WiFi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required.

This guide assumes the YoLink app has been installed on your smartphone, and a YoLink hub is installed and online (or your location, apartment, condo, etcetera, is already served by a YoLink wireless network).

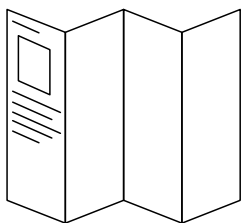
C In the Box



Thermostat 2



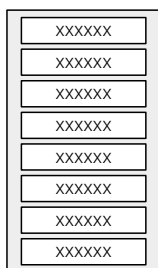
Mounting Plate ("Back Plate")



Quick Start Guide



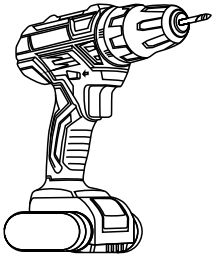
Wall Screws (4) &
Drywall Anchors (4)



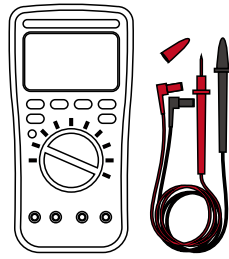
Wire Labels

D Required Items

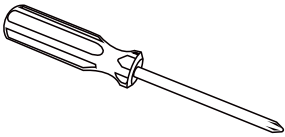
The following items may be required:



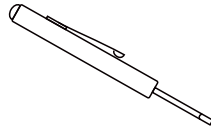
Drill with Drill Bits



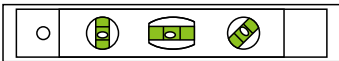
Multimeter



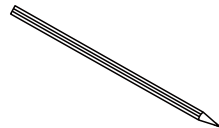
Medium Phillips Screwdriver



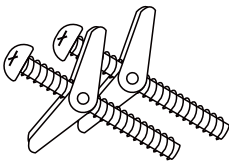
Small Slotted Screwdriver



Level



Pencil

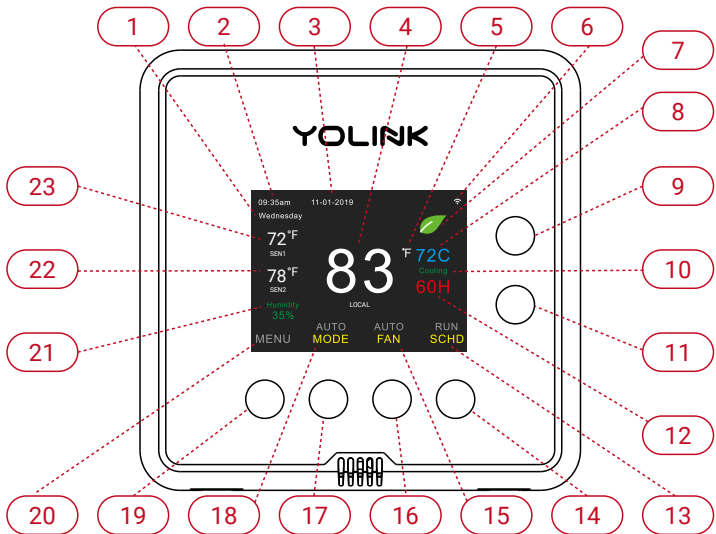


Alternative Mounting Hardware



Get to Know Your YoLink Thermostat 2

Please take a moment to familiarize yourself with your new Thermostat.



- | | |
|--|---|
| 1) Current day of the week | 15) Fan status
("AUTO" if fan will run on demand, "ON" if the fan is on) |
| 2) Current time of day | 16) Fan button
(press to switch the fan between AUTO and ON mode) |
| 3) Current Date | 17) Mode button
(press to switch between system modes: AUTO, HEAT, COOL, OFF) |
| 4) Master Sensor Temperature (Local) | 18) Mode status
("AUTO" if cooling or heating automatically, "HEAT" if only heating is running, "COOL" if only cooling is running) |
| 5) Fahrenheit/Celsius indicator | 19) Menu button
(press to access the Thermostat's menu system) |
| 6) Connection status
(white if connected, red if disconnected) | 20) Menu indicator |
| 7) ECO
(Energy Conservation Operation) Leaf appears if in ECO mode | 22) Current humidity level (%) |
| 8) Cooling set point | 22) Guest Sensor 1 Temperature (SEN1) |
| 9) Temperature up button | 23) Guest Sensor 2 Temperature (SEN2) |
| 10) Status
("Cooling" if in cooling mode, "Heating" if in heating mode) | |
| 11) Temperature down button | |
| 12) Heating set point | |
| 13) Schedule status
("RUN" if running on a schedule, "HOLD" if not running on a schedule) | |
| 14) Schedule button
(press to activate or deactivate schedules) | |



Install the App

If you are new to YoLink, please install the app on your phone or tablet, if you have not already. Otherwise, please proceed to the next section.

Scan the appropriate QR code below or find the “YoLink app” on the appropriate app store.



Apple phone/tablet
iOS 9.0 or higher



Android phone/tablet
6.0 or higher

Open the app and tap **Sign up for an account**. You will be required to provide a username and a password. Follow the instructions, to set up a new account. Allow notifications, when prompted.

You will immediately receive a welcome email from no-reply@yosmart.com with some helpful information. Please mark the yosmart.com domain as safe, to ensure you receive important messages in the future.

Log in to the app using your new username and password.

The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Rooms** screen, later.



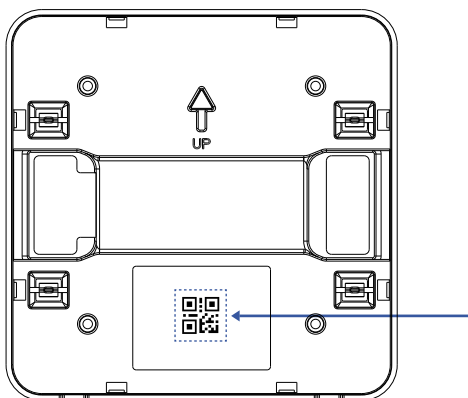
Add Your Thermostat to the App

1. Tap **Add Device** (if shown) or tap the scanner icon:

Scanner icon



2. Approve access to your phone's camera, if requested. A viewfinder will be shown on the app.



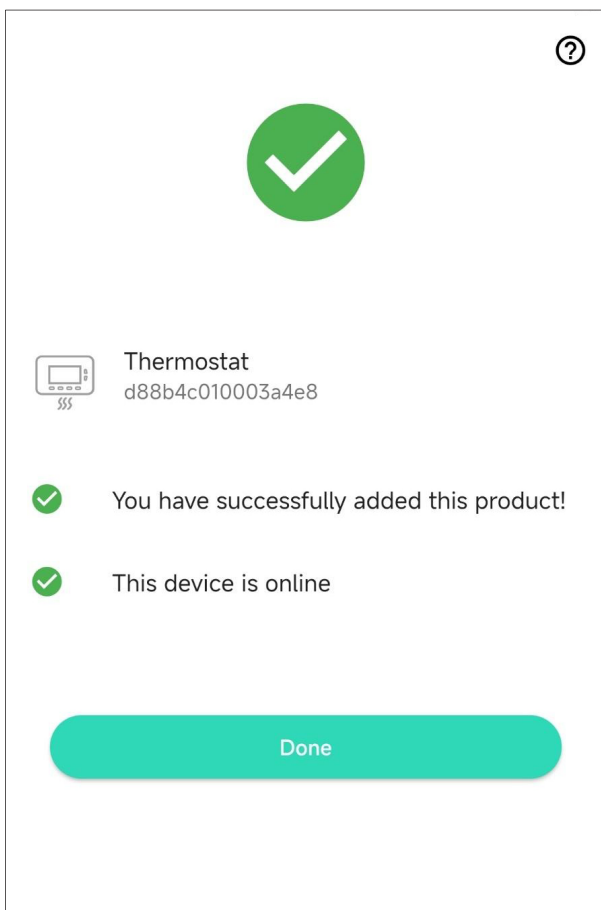
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

G

Add Your Thermostat to the App, Continued

4. You can change the device name and assign it to a room later. Tap **Bind device**.

5. If successful, the screen will appear as shown. Tap **Done**.



H Installation



This installation manual assumes the Thermostat 2 is replacing an existing thermostat. For new installations please disregard references to the existing thermostat, etc.

CAUTION: To prevent personal injury and damage to property, always remove power to the thermostat by turning off the HVAC equipment at the circuit breaker panel, prior to performing any steps related to connecting or changing the thermostat wiring!



Installation, Continued

THERMOSTAT TERMINAL	TYPICAL WIRE DESIGNATIONS	FUNCTION	REMARKS
Y1	Y1	NON-HEAT PUMP : STAGE 1 COOL MODE	TYPICALLY YELLOW
		HEAT PUMP : STAGE 1 COMPRESSOR ON/OFF CONTROL	
Y2	Y2	NON-HEAT PUMP : STAGE 2 COOL MODE	TYPICALLY YELLOW OR LIGHT BLUE
		HEAT PUMP : STAGE 2 COMPRESSOR ON/OFF CONTROL	
G	G	FAN RELAY	TYPICALLY GREEN
W1	W1, W, O/B	NON-HEAT PUMP : STAGE 1 HEAT MODE	ACCORDING TO O/B SETTING
		HEAT PUMP : STAGE 1 HEAT OR COOL MODE	TYPICALLY WHITE OR BROWN
W2	W2	NON-HEAT PUMP : STAGE 2 HEAT MODE	TYPICALLY WHITE OR BROWN
		HEAT PUMP : STAGE 2 COOL MODE	ACCORDING TO O/B SETTING



Installation, Continued

THERMOSTAT TERMINAL	TYPICAL WIRE DESIGNATIONS	FUNCTION	REMARKS
AUX	AUX	AUXILIARY HEAT	
C	C OR COM	24VAC COMMON	TYPICALLY CYAN, SEE NOTE #1
R	R, RC, RH	24VAC POWER	TYPICALLY RED

Note #1: Confirm the presence of a C wire, or one labeled COM or COMMON. The Thermostat 2 will not function without a C wire (or C wire adapter, as previously noted).

If your existing thermostat has additional wires that do not appear to correspond with any of these wire designations, please contact us.



Installation, Continued

- 1.** Refer to the chart above, match up your thermostat wires with their matching screw terminal on the Thermostat 2 terminal strip.
- 2.** Turn off power, as required, to ensure there are no energized wires at the thermostat location.
- 3.** Before making any changes to the thermostat wiring, it is important to identify the individual wires and their functions using the supplied labels (or masking tape, etc.) label each wire with the same identifier that is on the existing thermostat ("C", "R" etcetera). It may also help to have a picture of the wiring on the existing thermostat, in case a label falls off or if you need to reinstall the existing thermostat.
- 4.** Remove your existing thermostat and back plate from the wall. Use care to not allow the cable to fall into the hole in the wall!
- 5.** Mount the new back plate to the wall, using the appropriate method, for example, with the supplied drywall anchors. Position the plate, to cover the hole in the wall, and check the level of the plate, as needed. Do not overtighten the mounting screws, as this will warp the back plate, adversely impacting the thermostat operation.

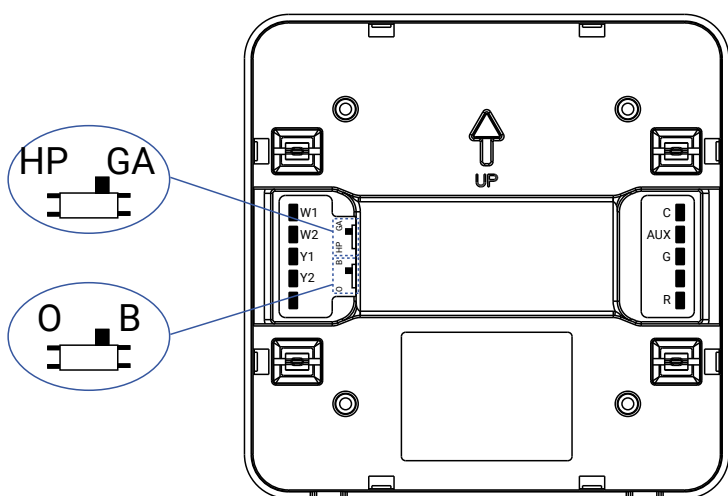
H Installation, Continued

6. Terminate each conductor on its respective screw terminal. You will need to loosen each screw terminal, first. When finished, gently tug on each wire, to ensure a good connection.

7. Refer to the rear of the Thermostat 2. Set the HP/GAS slide switch to HP for heat pump systems otherwise to GAS. You can change the switch setting with a small screwdriver, pencil or similar object.

8. If you set the HP/GAS switch to HP, set the O/B slide switch to O for energizing the reversing valve on heating (cold climates) or B for energizing the reversing valve on cooling (hot climates) operation.

If you set the HP/GAS switch to GAS, the valve will only energize for heating.





Installation, Continued

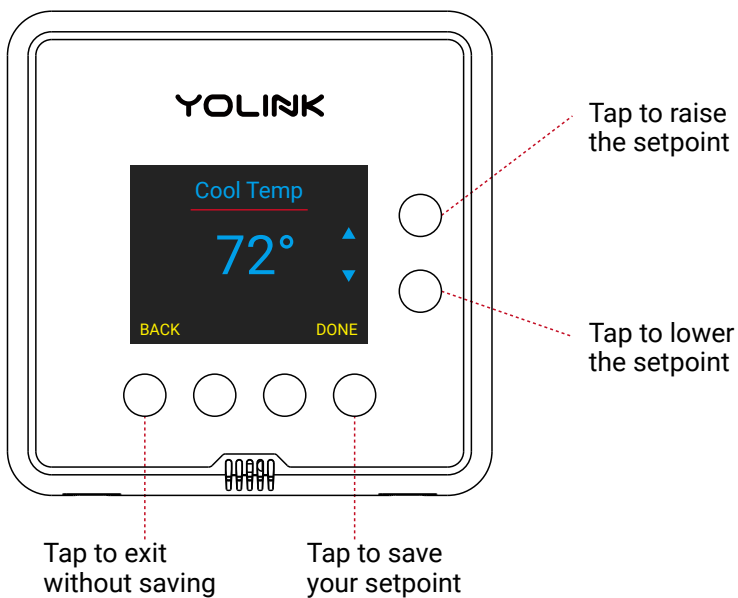
9. Gently push the thermostat down onto the back plate. You may hear an audible click, as it snaps into place. Observe the rear thermostat sides, near the wall, to ensure there are no uneven gaps between the plate and the thermostat. Gently tug on the thermostat, to ensure it does not come loose.

10. Turn on power to the unit. The Thermostat 2 display should immediately turn on. If not, double-check your wire terminations, power-off the unit and correct any mistakes, as needed.



Set the Cooling or Heating Setpoint

1. First, tap the up or down button. Tap the appropriate buttons, to adjust the setpoint up or down.
2. When finished, tap the DONE button. To exit this process, tap the BACK button.

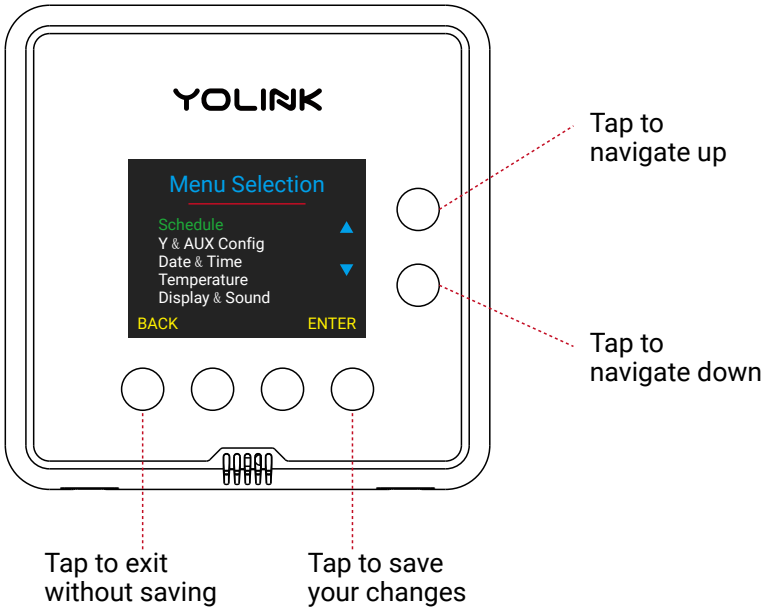


To avoid frequently turning the heating or cooling on and off, a 2 degree Fahrenheit/1 degree Celsius default, minimum, gap between the cooling and heating set points exists in all modes.

J

Navigating the Menu System

1. First, tap the MENU button.
2. Use the UP and DOWN buttons to navigate up or down the menu items.
3. Use the ENTER button to select an item.
4. Tap DONE when finished, or tap BACK to exit without saving.



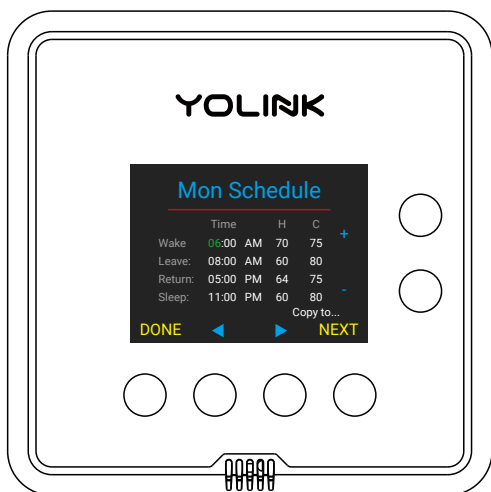
K Schedules: Editing & Copying



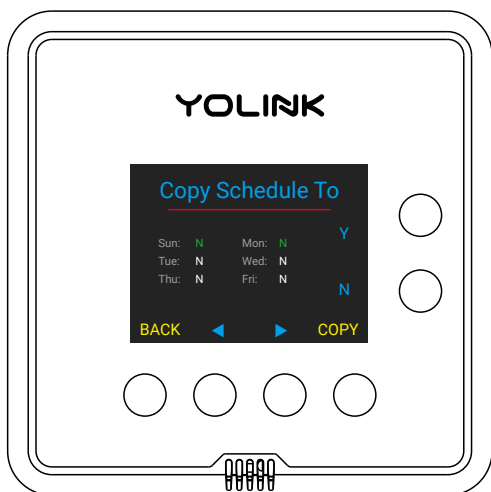
This section demonstrates viewing and editing the schedule from the thermostat. See section T for viewing/editing from the app.

The Scheduling Submenu:

- One day of the week is displayed at a time. The current day is identified at the top of the screen, abbreviated Mon, Tue, Wed, etcetera. (To navigate to other days, tap the NEXT button.)
- Each day has up to four unique temperature adjustment events, labeled Wake, Leave, Return and Sleep.
- Each event has a heat and a cool setpoint. The current mode of the thermostat determines which setpoint is applied to the current schedule.
- You can schedule an entire day, then copy that schedule to other similar days, for identical schedules on those days, or as a starting point for a similar schedule, that you can edit to suit.
- Use the left and right arrow buttons to navigate through each item that can be edited (hour, minute, heat setpoint, cool setpoint). Scrolling starts over at the first item after passing the last item (“Copy to”).



1. To edit a schedule, tap MENU. Navigate to Schedules, tap ENTER.
2. To change the selected day, tap the NEXT button until the correct day is displayed.
3. Use the left and right arrow buttons to navigate between items. Selected items are identified by green colored text. Use the + and – buttons to change the item value up or down. When correct, navigate to the next item using the left or right arrow buttons.
4. You can give edit each day of the week or you can copy the schedule of one day over to another day. This is explained in the next section.



1. After editing a day of the week that you wish to copy to another day, select Copy To. Tap the COPY button. A screen similar to the one below is displayed, showing the six other days of the week. Use the left and right arrow buttons to scroll between the days of the week. Each day is initially marked with an “N” which indicates it will not be updated with your copied schedule. Use the Y button to mark each day you wish to be updated with the copied schedule. After your Y/N selections have been made, tap the COPY button.

2. At this time, you can review your updated schedule, using the left and right arrow buttons. If finished editing, tap DONE to exit Schedules, then BACK to exit the menu system.



Y & Aux Config



This menu screen allows for configuring heat pump-related settings for the thermostat. If in doubt about the correct setting, please contact customer support (refer to the last page of this user guide).

Y OFF: Set to YES, if your compressor should turn off if the temperature is below your minimum level (determined in the next setting) .

Y OFF under: This temperature, if Y OFF is set to YES, will determine at which temperatures the compressor will not operate (this temperature or less).

AUX only: For auxiliary heating only, select YES. The Y terminal will not turn on for heating or cooling, only AUX.

AUX start time: This option sets a time that auxiliary heating start to run.



Y & Aux Config, Continued

AUX duration: This option sets a maximum time that auxiliary heating can run.

AUX differ: This setting determines the minimum temperature gap between the heat setpoint and the current temperature, before the aux heating will run.

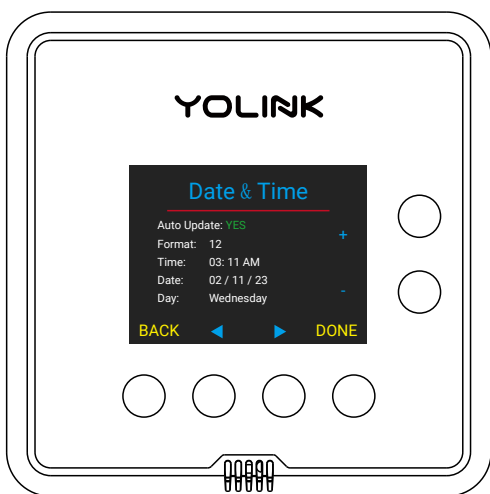
Y2 start time: This option sets a time that 2-stage heating or cooling start to run

Y2 duration: This option sets a maximum time that 2-stage heating or cooling can run.

Y2 differ: This setting determines the minimum temperature gap between the heat/cool setpoint and the current temperature when the 2-stage heating or cooling will run.

For 2-stage heating or cooling, when meet the "Y2 start time" or "Y2 differ", the 2-stage heating or cooling will run.

M Date & Time



This menu screen allows for changing the time and date. You have the option of either manually changing the time and date, or time and date being managed by the app. As the app uses your phone's time and date, and as this is automatically updated and synchronized, setting **Auto Update** to YES is recommended. You can only edit the date and time if **Auto Update** is set to NO.



Date & Time, Continued

Auto Update: Set to YES to allow the app to manage thermostat date and time.

Format: Set to 12 for 12 hour format (e.g. 1:11 PM), set to 24 for 24 hour format (e.g. 13:11).

Time: Set the current time.

Date: Set the current date .

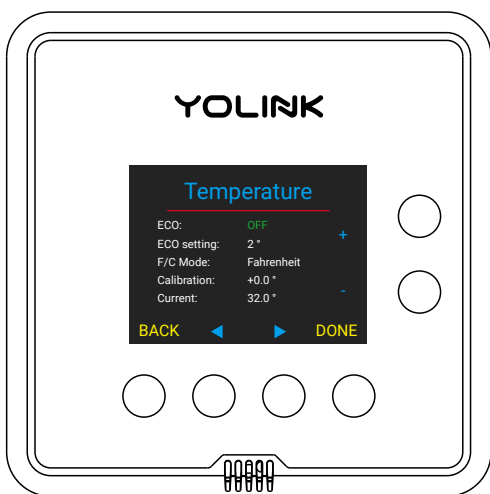
Day: Set the current day of the week.



The time does not advance and the new settings are not updated until after the DONE button is pressed.



Temperature Settings



This menu screen allows for changing temperature-related settings for your Thermostat, such as Fahrenheit or Celsius format.

ECO: (Energy Conservation Operation). While in ECO mode, your thermostat will adjust your normal setpoint to a more economical setting (e.g. hotter setpoint in the summer), based on the offset number of degrees in the **ECO setting**.

ECO setting: This setting determines the number of degrees that the setpoint is adjusted, plus or minus actual setpoint values.

F/C Mode: Use this setting to switch between Fahrenheit and Celsius mode.



Temperature Settings, Continued

Calibration: If the thermostat temperature is different from the correct temperature (based on a calibrated thermometer, etc.), change this number to offset the displayed temperature by that amount. For example, if the actual temperature is .5 degrees colder, set this number to -0.5 °.

Current: The thermostat temperature is displayed, for reference. It will be adjusted per your calibration settings.



Display & Sound



This menu screen allows for changing settings related to the appearance and sound of your Thermostat.

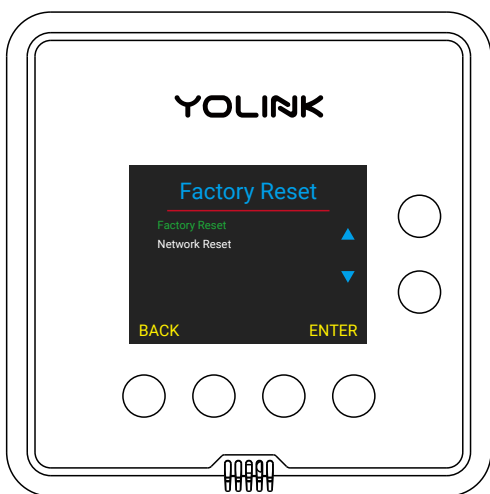
BG Color: Select Black or Blue background color.

Brightness: Adjust screen brightness or intensity.

BL Timeout: To maximize the life of the LCD display, brightness is typically adjusted down while not in use. You can adjust the duration before the display reverts to a low-brightness setting. Choose from one of the values between 10 and 180 seconds, or select Always, for no automatic dimming.

Sound: Select ON or OFF to enable or disable thermostat sounds.

P Factory Reset



This menu screen provides access to factory reset and network reset functions. These functions are not typically used without the direction of a customer support agent or technician. Performing a factory reset will restore all settings to default. This will not harm your thermostat but you may be required to update any settings that are not automatically controlled or updated from the app. Factory reset will not delete the thermostat from the app.

Performing a network reset forces the thermostat to reconnect to the YoLink wireless network. If your thermostat is offline, performing a network reset may resolve the offline status.

Factory Reset, Continued

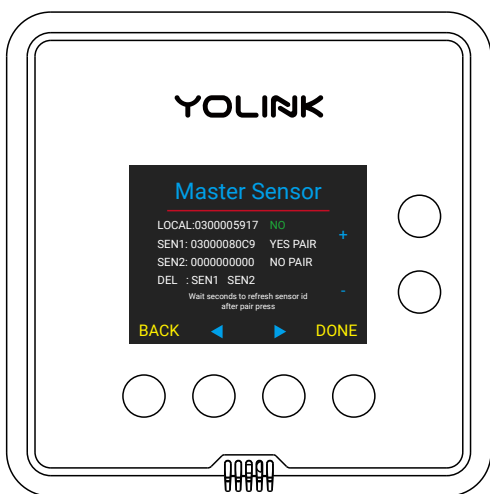
Factory Reset: Select this item, then tap ENTER to start the factory reset. The display will go blank, and in a moment or two the thermostat should return to normal, online status. Verify the mode and settings are correct, otherwise update them as needed, either from the app or the thermostat.

Network Reset: Select this item, then tap ENTER to start a network reset. If your thermostat does not automatically reconnect to the YoLink network (indicated by the white  signal indicator shown on the display) contact our Support department.



If you have paired an outside temperature sensor, after you factory reset the thermostat, please also press and hold the SET button on the outside temperature sensor for 20-30 seconds to factory reset the outside temperature sensor.

Q Master Sensor



The YS4004 Thermostat supports pairing with two YS8007 or 8017 Thermometer Hygrometers to serve as temperature sources for the thermostat. You can set either the thermostat itself (local) or the outside temperature sensor as the master sensor (master temperature source), with the other two acting as guest temperature sources.

Use the left and right arrow buttons to navigate between items. Selected items are identified by green colored text. Use the + and – buttons to change the master sensor (YES or NO) or pair sensor (PAIR) or delete sensor (DEL SEN1/DEL SEN2).



Master Sensor, Continued

When pairing the outside temperature sensor (support YS8007 or 8017 Thermometer Hygrometer only) at the device end, you need to first press and hold the SET button on the sensor for 5 seconds until the green light flashes. Then, on the YS4004 thermostat Master Sensor interface, use the left and right arrow buttons to navigate to "PAIR," and then use the + and - buttons to confirm the pairing.

Temperature Reporting Rules of Model 8007 or 8017

1. Reporting to the Thermostat (Not to the Server):

- **When temperature is above 0°C (32°F):**
 - If the temperature changes by $\geq 3^{\circ}\text{F}$ within **1 minute**, or
 - If the temperature changes by $\geq 0.3^{\circ}\text{F}$ over **more than 1 minute**,
→ Then the 8007 or 8017 reports the data to the **Thermostat only**, not to the server.
- **When temperature is below or equal to 0°C (32°F):**
 - If the temperature changes by $\geq 9^{\circ}\text{F}$ within **1 minute**, or
 - If the temperature changes by $\geq 0.3^{\circ}\text{F}$ over **more than 1 minute**,
→ Then the 8007 or 8017 reports the data to the **Thermostat only**, not to the server.



Master Sensor, Continued

2. Regular Reporting to Server:

- The data reporting rules of 8007 or 8017 as a temperature/humidity sensor to the **server remain unchanged.**

Broadcast Interval to the Thermostat (8007 or 8017):

The broadcast interval is **15 minutes**. This means that if **no data change from the 8007 or 8017 meets the reporting conditions** for the Thermostat within a 15-minute period, the device will **send a data update to the Thermostat at the end of that period.**

This ensures that the Thermostat receives updated data at least once every 15 minutes, even when the temperature remains stable.

Master Source Switching Logic:

- If **8007 or 8017 is set as the master source,** and
- **No data is received from 8007 or 8017 for 32 minutes,**
 - The Thermostat will **switch to local data** as the current data source.
- If the 8007 or 8017 **resumes reporting after the switch,**
 - The Thermostat will **switch back to using 8007 or 8017 as the master data source.**



Master Sensor, Continued

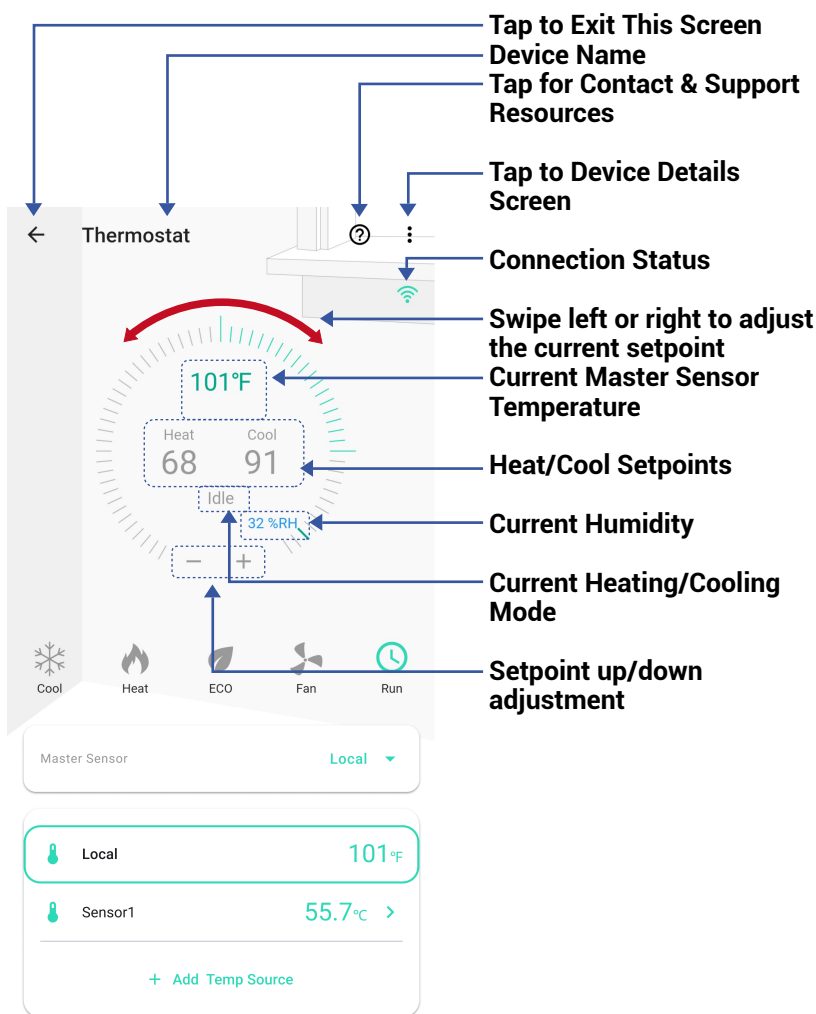
Condition for Master Source Switch During Heating/Cooling:

- **Precondition:** 8007 or 8017 is the master source.
- **Device Status:** Heating or cooling mode.
- **Judgment Standard:** No data from 8007 or 8017 for **5 minutes**.
- **Expected Action:** Switch the master data source to **local data**.
- If 8007 or 8017 **resumes reporting**, switch the master data source **back to 8007 or 8017**.



App Functions: Device Screen

In the app, tap on your Thermostat icon. Your Thermostat main screen should be similar to the one shown below.





App Functions: Device Screen, Continued

The screenshot shows the 'Thermostat' screen in an app. At the top, there's a back arrow and the title 'Thermostat'. Below this is a large circular gauge showing the current temperature as 101°F. The gauge has segments for 'Heat' (68°F), 'Cool' (91°F), and 'Idle'. Below the gauge, there are icons for 'Cool' (snowflake), 'Heat' (flame), and 'ECO' (leaf). To the right of the gauge, there's a 'Fan' icon and a 'Run' icon (clock). Below these is a 'Master Sensor' section with a 'Local' dropdown menu. Further down, there's a 'Sensor 1' section showing '55.7°C' with a right arrow. At the bottom, there are 'Schedule' and 'History' buttons. Callouts with arrows point to various elements: the top right status icons, the fan mode, the run mode, the master sensor dropdown, the local temperature, the sensor 1 temperature, the add temperature source button, the history button, and the schedule button.

Indicates the current mode
Green if active
Gray if inactive/disabled

Indicates current fan mode
Green if on

Indicates the current run mode
Green = running on the schedule (auto mode)
Gray = not running on a schedule (auto mode)

Master Sensor
Tap to switch the master sensor

Local Temperature
Thermostat's itself temperature

Sensor 1 Temperature
Outside temperature source 1

Tap to add temperature source

Tap to view the device history logs

Tap to edit schedule settings



App Functions: Device Screen, Continued



1. To protect the HVAC from damage due to frequent starts, it waits 5 minutes before restarting cooling or heating after a mode change or a previous cycle.
2. The HVAC will run (or stop) heat mode until the room temperature is 1°F below (above) the heating setpoint or run (or stop) cool mode until it's 1°F above (below) the cooling setpoint.
3. Prevent frequent startups from damaging the HVAC, the cooling and heating set points difference must be at least 2°F (1°C).



App Functions: Device Details Screen

Tap the three dots (in the upper right corner) to open the Thermostat **Details** screen. Your Thermostat's screen should be similar to the one shown below.

The screenshot shows the 'Details' screen for a thermostat. The header is teal with a back arrow, the title 'Details', and a help icon. The settings are listed below:

- Type**: Thermostat
- Name**: Thermostat-4004 >
- Room**: 4102/4002/3 >
- Favorite**: Will show in favorite screen (with a heart icon)
- History**: Get device activity logs >
- Calibration**: Device parameter calibration >
- ECO**: >
- Beep**: (with a toggle switch)
- Minimum Running Time**: 1 minute >
- Master Sensor**: pair with the outside temperature source and select the master sensor (Local >)

Callouts on the right side of the screen provide additional information:

- Device Type**
- Device Name** (Tap to Edit)
- Room** (Tap to Edit)
- Favorite** (Red if Favorite, Tap to Edit)
- Device history** Tap to view device history
- Calibration** Tap to calibrate local temperature
- ECO** Tap to enable ECO mode and set the ECO temperature offset
- Beep** Tap to enable or disable beep sound
- Minimum Running Time** Tap to set minimum running time
- Master Sensor** Tap to set the master sensor and pair outside temperature source



App Functions: Device Details Screen, Continued

The screenshot shows the 'Details' screen of the YoLink app. The header is a teal bar with a back arrow, the title 'Details', and a help icon. Below the header, there are several rows of device information, each with a right-pointing chevron for more options. The rows are: 'AUX Heat' (with a callout to 'AUX Heat' settings), '2-Stage Heat/Cool' (with a callout to '2 Stage Heat/Cool' settings), 'State' (showing 'Online' with a callout to 'State'), 'Time' (showing '4/29 04:08:56 (GMT+0)' and a 'Sync With Mobile' link with a callout to 'Time' settings), 'Other' (a greyed-out section), 'Model' (showing 'YS4004-UC' with a callout to 'Model Number'), 'Device EUI' (showing 'd88b4c0300005685' with a callout to 'Device EUI' as a Unique Identifier Number), 'SN' (showing 'AFA8D97479' and a QR code with a callout to 'Device Serial Number'), 'Signal Intensity' (showing 'Strong (-65 dBm)' with a callout to 'Signal Intensity' as 'From YoLink Hub'), and 'Firmware' (showing '0405' and '0406 ready now.' with a callout to 'Firmware Revision' as 'Refer to page 42'). At the bottom, there is a red 'Delete' button with a callout to 'Remove Device from Current Account' as 'Tap to delete the device from your YoLink account').

AUX Heat
Tap to AUX heat settings

2 Stage Heat/Cool
Tap to 2 stage heat/cool (Y2) settings

State

Time
Tap to sync with mobile

Model Number

Device EUI
Unique Identifier Number

Device Serial Number

Signal Intensity
(From YoLink Hub)

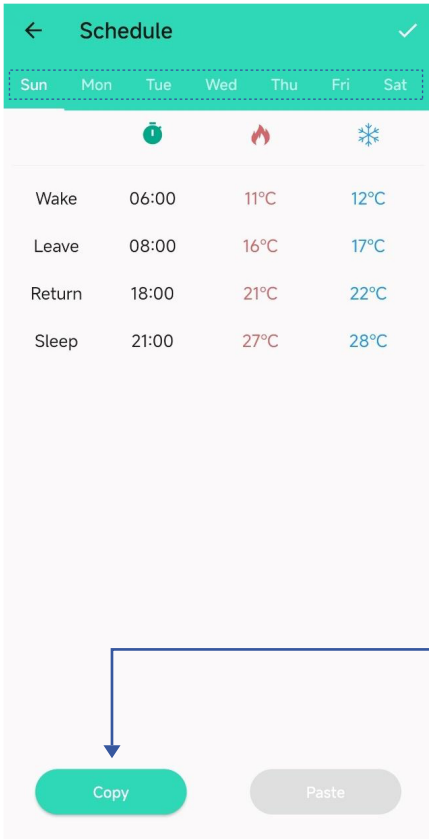
Firmware Revision
(Refer to page 42)

Remove Device from Current Account
Tap to delete the device from your YoLink account



App Functions: Schedule

You can set four schedules per day for a week



Tap to edit the schedule for this day

Tap to copy current day's schedule to any other days

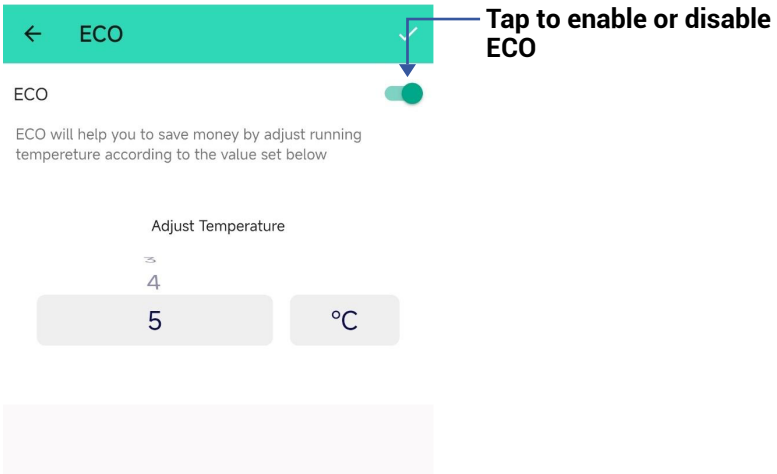


1. Prevent frequent startups from damaging the HVAC, the cooling and heating set points difference must be at least 2°F (1°C).
2. The schedule runs on the device (no internet connection required).



App Functions: ECO Settings

Under ECO mode, HVAC will automatically adjust the cooling or heating set temperature to a cooler or hotter temperature according to the personalized ECO settings in the YoLink app. For example, the ECO value (adjust temperature) is 5°F, Heating point is 62°F, Cooling point is 80°F, HVAC will automatically adjust the heating point to 57°F (62 minus 5), and cooling point to 85°F (80+5).





App Functions: Smart - Scene

The screenshot shows the 'Scene' settings interface. At the top is a teal header with a back arrow, the title 'Scene', a refresh icon, and a checkmark icon. Below the header are four rows: 'Name' with a 'Sleep' link and a chevron, 'Icon' with a '1' icon and a chevron, 'Favorite' with a heart icon, and 'Group' with a 'HomeScene' link and a chevron. Below these is a 'Behavior' section with a list of behaviors, including 'Thermostat Turn to 'Auto' mode'. At the bottom of the behavior list are three icons: a sort icon (three horizontal lines with an arrow), a plus icon, and a delete icon (a red trash can).

- Tap to save the settings** (points to the checkmark icon in the header)
- Name**
Tap to edit the scene name (points to the 'Sleep' link)
- Icon**
Tap to select a scene icon (points to the '1' icon)
- Favorite**
Tap to make it a favorite scene (points to the heart icon)
- Assign the scene to a scene group** (points to the 'HomeScene' link)
- Delete the behavior** (points to the delete icon)
- Add behavior**
Tap to add a behavior (points to the plus icon)
- Tap to sort behaviors** (points to the sort icon)



The Scene settings are saved in the cloud.

One Scene group only shows one active scene, for example, in Home scene group, if you execute the Home scene, it will show the Home scene activated, if you execute Away scene next, the Away scene will revert the Home scene's active status to off.



App Functions: Smart - Automation

The Thermostat can be set up as an action or in automation.

The screenshot shows the 'Automation' settings interface. At the top is a green header bar with a back arrow and the title 'Automation', and a checkmark icon on the right. Below this, the 'Name' field is set to 'thermostat'. The 'When' section shows a clock icon and the schedule 'When 00:00 Every Mon,Tue,Wed,Thu,Fri'. The 'Then' section is titled 'Behavior' and contains a list with one item: 'Thermostat Turn to 'Auto' mode'. Above this list are three icons: a sort icon (three horizontal lines with an upward arrow), a plus icon, and a delete icon (a red trash can). Below the behavior list is the 'Working Time' section, which is currently set to 'Always Working'. At the bottom is the 'Advanced Settings' section with a downward arrow icon. Blue arrows point from text labels to these specific UI elements.

- Tap to save the settings** (points to the checkmark icon in the top right)
- Edit the name of the automation** (points to the 'thermostat' text in the Name field)
- Tap to set a schedule for the automation** (points to the 'When 00:00' text in the When section)
- Add behavior**
Tap to add a behavior (points to the plus icon in the Behavior section)
- Delete the behavior** (points to the delete icon in the Behavior section)
- Tap to sort behaviors** (points to the sort icon in the Behavior section)
- Always Working**
Tap to set when the automation can be activated (points to the 'Always Working' text in the Working Time section)
- Advanced Settings**
Tap to edit advanced automation and logging settings (points to the downward arrow icon in the Advanced Settings section)

The Automation settings are saved in the cloud.

You can edit the Advanced Settings, including save the log, retry if action fails, notify if action fails, etc.



App & 3rd-Party Services

The YoLink Thermostat 2 works with several voice assistants, such as Alexa, and it works with other automation platforms such as IFTTT and Home Assistant.

To set up 3rd-party integrations (Alexa and IFTTT), in the app, go to Settings, Third-Party Services, and follow the instructions.

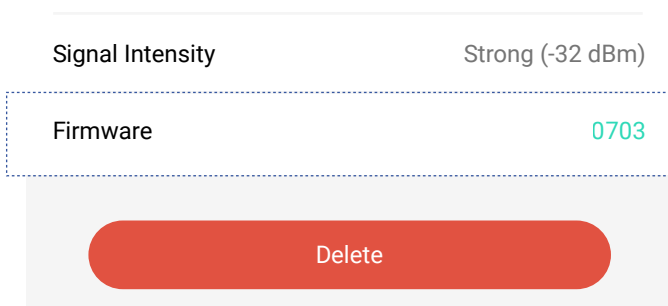
Refer to the Home Assistant website and the YoLink integration page for instructions.

<https://www.home-assistant.io/integrations/yolink/>

Y Firmware Updates

Your YoLink products are frequently being improved, with new features and functions added over time. It is periodically necessary to make changes to your fob's firmware. For optimal performance of your Thermostat, and to give you access to any improvements made to your fob's model, these firmware updates should be installed (added to your Thermostat) when they become available.

In the Detail screen of your Thermostat, you will see the Firmware section, as shown in the image below. A firmware update is available if it says "#### ready now" (where #### is a four-digit combination of letters and/or numbers).



Tap in the Firmware area to start the update. The Thermostat will update automatically, indicating the progress by percentage-complete. You may use your Thermostat during the update process, as the update is performed "in the background". You may see the LED slowly blink green during the update, and the update may continue for several minutes beyond the LED turning off.

Z Specifications

Controller:	Semtech® LoRa® RF Module YL09V2 microcontroller with 32-Bit RISC processor
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Voltage:	24V AC/500mA
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Temperature Range (Scheduled):	41°F-95°F, (5°C-35°C)
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ECO Setting Range:	2°F-9°F, (1°C-5°C)
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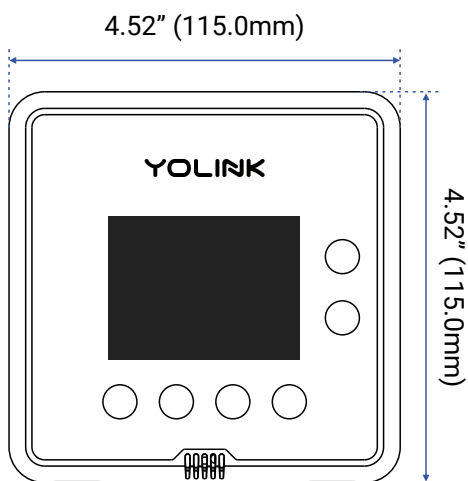
Calibration Range:	-9°F-9°F, (-5°C-5°C)
--------------------	----------------------

Dimensions, Imperial (L x W x D):	4.52 x 4.52 x 0.87 inches
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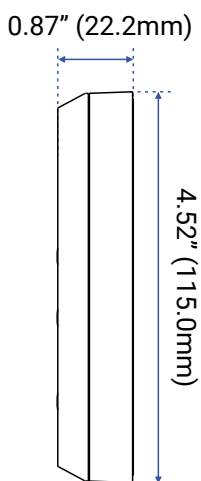
Dimensions, Metric (L x W x D):	115 x 115 x 22.2 mm
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Environment:	Working Temperature: -4°F-122°F (-20°C-50°C)
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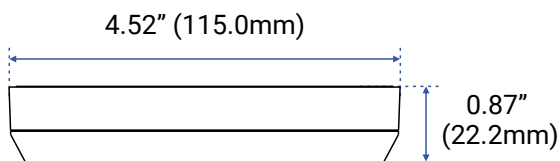
	Working Humidity: ≤95%, non-condensing
--	---



FRONT



SIDE



TOP



Troubleshooting

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No Display, No Heat, No Cool, No Fan	1.) Blown fuse or tripped circuit breaker	1.) Replace fuse or reset breaker
	2.) Furnace power switch to OFF	2.) Turn switch to ON
	3.) Furnace blower compartment door panel loose or not properly installed	3.) Replace door panel in proper position to engage safety interlock or door switch
	4.) Loose connection to thermostat or system	4.) Tighten Connections
	5.) Thermostat has come loose from the backplate	5.) Gently push the thermostat down on the backplate. If the thermostat does not snap into place, the wall surface may not be even and/or the backplate may have been warped during installation or due to the uneven wall surface. Provide an even, flat surface for the thermostat
No Heat	1.) System switch not set to HEAT	1.) Switch system to HEAT
	2.) Loose connection to thermostat or system	2.) Verify thermostat wires are securely attached
	3.) Heating system requires service or thermostat requires replacement	Diagnostic: Set mode to HEAT and raise the setpoint above the room temperature. The status should switch to Heating. If it does not, this may indicate an issue with the thermostat.



Troubleshooting, Continued

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No Heat	1.) System switch not set to HEAT	1.) Switch system to HEAT
	2.) Loose connection to thermostat or system	2.) Verify thermostat wires are securely attached
	3.) Heating system requires service or thermostat requires replacement	Diagnostic: Set mode to HEAT and raise the setpoint above the room temperature. The status should switch to Heating. If it does not, this may indicate an issue with the thermostat.
No Cooling	1.) System switch not set to COOL	1.) Switch system to COOL
	2.) Loose connection to thermostat or system	2.) Verify thermostat wires are securely attached
	3.) Cooling system requires service or thermostat requires replacement	Diagnostic: Set mode to COOL and lower the setpoint below the room temperature. The status should switch to Cooling. If it does not, this may indicate an issue with the thermostat.
Heat, Cool or Fan Runs Constantly	Possible short in wiring, thermostat, heat, cool or fan system	Check each wire connection to verify they are not shorted or touching other wires. Try powering down then powering up the thermostat. Contact Customer Support if the problem persists



Troubleshooting, Continued

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Thermostat is Offline, No Other Devices Online	Numerous causes	Perform a network reset of the thermostat per section P
	Thermostat is out of range from the hub	Move Hub closer to the Thermostat or add a hub
Thermostat and thermometer disagree	Thermostat may require calibration	If the thermometer is the correct value, calibrate the Thermostat per section N



Warnings

- This product is powered by 24V AC only. Please do not connect the product to the high or wrong voltage
- Please install, operate and maintain the Thermostat only as outlined in this manual. Improper use may damage the unit and/or void the warranty
- Do not install or use the device outside of the temperature and humidity range listed in the Environmental section in Specifications, on page 43
- This device is not waterproof and is designed and intended only for indoor use. Subjecting this device to outdoor environment conditions such as direct sunlight, extreme hot or cold temperatures, rain, water and/or condensation can damage the device and will void the warranty
- Install or use this device only in clean environments. Extremely dusty or dirty environments may prevent the proper operation of this device, and will void the warranty
- If your Thermostat gets dirty, please clean it by wiping it down with a clean, dry cloth. Do not use strong chemicals or detergents, which may discolor or damage the exterior and/or damage the electronics, voiding the warranty



Warnings, Continued

- Do not install or use this device where it will be subjected to high temperatures and/or open flame
- Do not install or use this device where it will be subjected to physical impacts and/or strong vibration. Physical damage is not covered by the warranty
- Please contact Customer Service before attempting to repair, disassemble or modify the device, any of which can void the warranty and permanently damage the device



1 Year Limited Electrical Warranty

YoSmart Inc. warrants to the original user (“customer”) of this product that it will be free from defects in materials and workmanship, under normal use, for 1 years from the date of purchase. This warranty does not apply to devices that have been improperly installed, modified, put to a use other than designed, or subjected to acts of God (such as floods, lightning, earthquakes, etc.). This warranty does not cover neglected or abused products. This warranty is limited to the repair or replacement of the device, only, at YoSmart's sole discretion. YoSmart will NOT be liable for the cost of installing, removing, nor reinstalling this product, nor direct, indirect, or consequential damages to persons or property resulting from the use of this product. This warranty only covers the cost of replacement parts or replacement units, it does not cover shipping & handling fees. The customer must provide proof of purchase, in the form of the original purchase invoice or order number. The purchase must have been made from an authorized seller.

To implement this warranty please contact us by one of the methods listed on the Contact Us page of this user guide.



FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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 and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.



FCC Statement, Continued

- 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

PRODUCT NAME:
YOLINK THERMOSTAT 2

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS4004-UC

ADDRESS:
25172 ARCTIC OCEAN DRIVE, SUITE 106
LAKE FOREST, CA 92630 USA

EMAIL:
SERVICE@YOSMART.COM



Contact Us

We are here for you, if you ever need any assistance installing, setting up or using a YoLink app or product!

Need help? For fastest service, please email us 24/7 at service@yosmart.com

Or call us at **831-292-4831** (US phone support hours: **Monday - Friday, 9AM to 5PM** Pacific)

You can also find additional support and ways to contact us at:

www.yosmart.com/support-and-service

Or scan the QR code:



Support Home Page

Finally, if you have any feedback or suggestions for us, please email us at feedback@yosmart.com

Thank you for trusting YoLink!

YoLink Customer Support

YOLINK

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