

Thermometer Hygrometer

YS8007-UC



Installation & User Guide

Revision Apr. 28, 2024

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A 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 Thermometer Hygrometer support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

<https://www.yosmart.com/support/YS8007-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

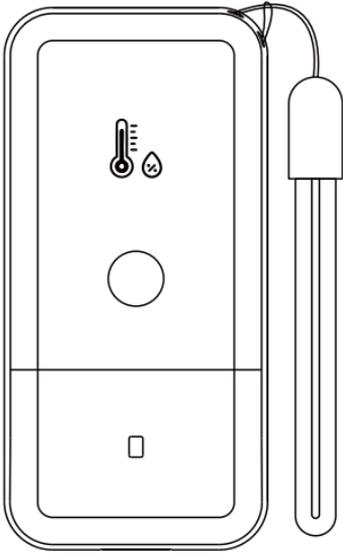


Your Thermometer Hygrometer connects to the internet via a YoLink hub, and it does **not** connect directly to your WiFi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required. This guide assumes the YoLink app has been installed on your smartphone, and a YoLink hub is installed and online (or your location, apartment, condo, etcetera, is already served by a YoLink wireless network).

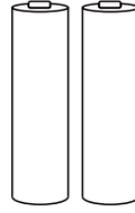


To provide years between battery changes, your sensor refreshes at least once an hour or more frequently if the SET button is pressed or if the temperature or humidity change meets refresh criteria as explained in the user guide.

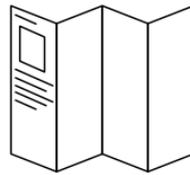
C In the Box



Thermometer Hygrometer



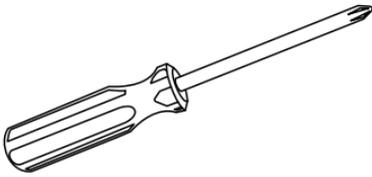
Two AA Batteries
(Installed)



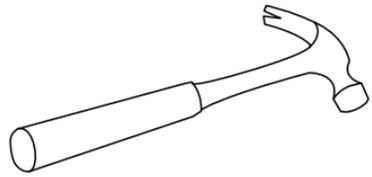
Quick Start Guide

D Required Items

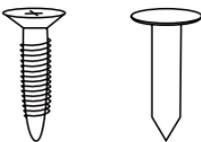
You may require these items:



Medium Phillips Screwdriver



Hammer



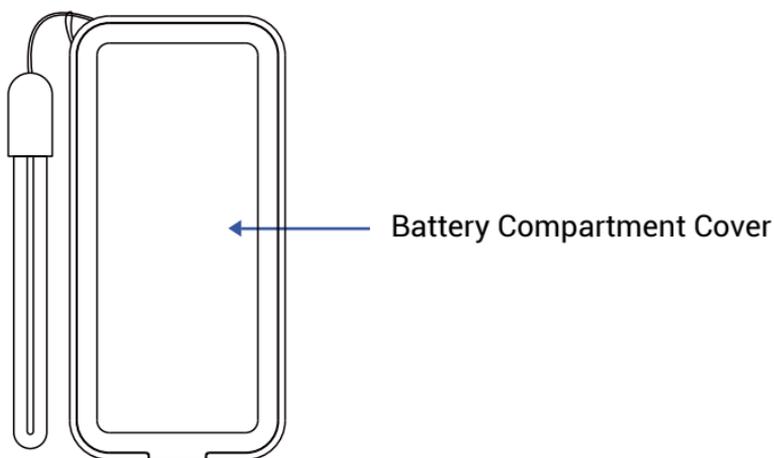
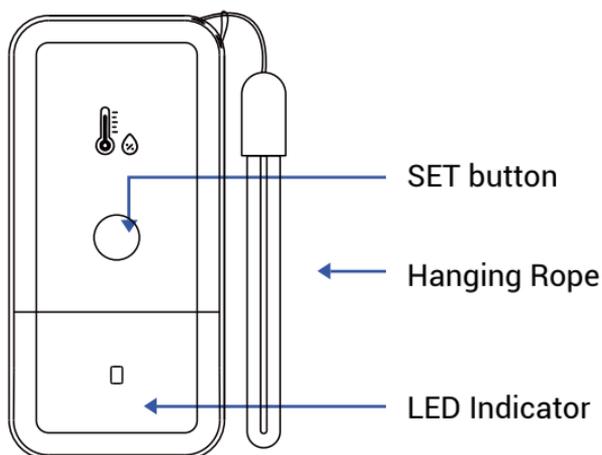
Nail or Self Tapping Screws



Double-sided Mounting Tape or
Velco

E

Get to Know Your Sensor



LED Behaviors

 **Blinking Red Once, then Green Once**
Device Start-Up

 **Blinking Red And Green Alternately**
Restoring to Factory Defaults

 **Blinking Green**
Connecting to Cloud

 **Slow Blinking Green**
Updating

 **Blinking Red Once**
Device Alerts

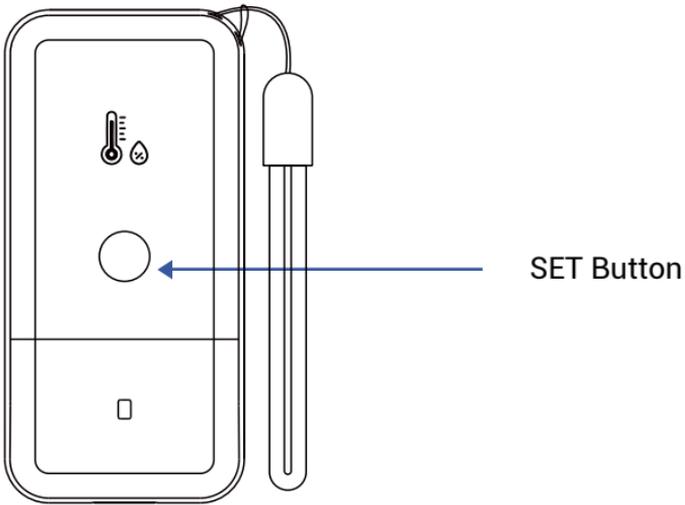
 **Fast Blinking Green**
Thermostat Pairing in Progress

 **Fast Blinking Red**
Thermostat Unpairing in Progress

 **Fast Blinking Red Every 30 Seconds**
Low Battery; Replace Batteries Soon

F Power Up

Press the SET button briefly, long enough for the LED to illuminate, blinking red then green



G 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.

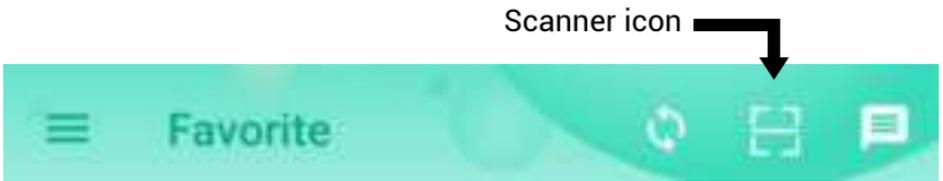
You will immediately receive a welcome email from no-reply@yosmart.com with some helpful information. Please mark the yosmart.com domain as safe, to ensure you receive important messages in the future.

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

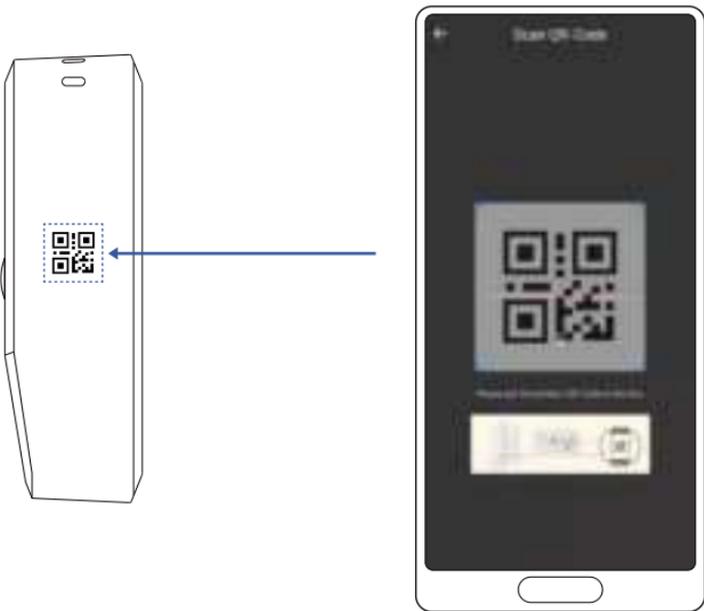
The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Rooms** screen, later.

H Add Your Sensor to the App

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



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



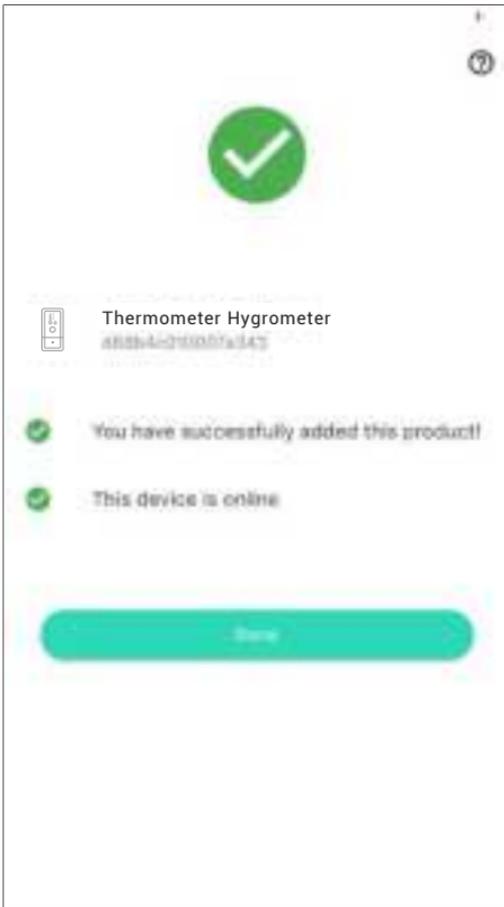
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

H

Add Your Sensor 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**.



I Installation



A popular use for this sensor is in fridges, freezers and other refrigerated environments. The sensor can be placed on a flat surface or it can be hung up.

3M brand "Command" hooks, as well as mounting tape and adhesive-backed Velcro have been used to secure our sensors to the interior walls or vertical surfaces within refrigerators and freezers.

Location & Mounting Considerations

The Thermometer Hygrometer is designed to be easy to install, and portable, but before installing the sensor, the following items should be considered:

- Do not use the sensor outside of the environmental temperature range, per the product specifications (refer to the product's support page).
- Do not allow the sensor to be submerged in water.
- Do not use the sensor near sources of extreme hot or cold, as this can affect accurate ambient temperature and/or humidity readings, and in some cases may damage the sensor.

I Installation, Continued

- Do not obstruct the openings on the sensors.
- Direct intense sunlight, rain and snow over an extended period can discolor or damage the device. Consider placing the sensor where it has overhead cover and/or protection from the elements.
- Place the sensor where it will be out of reach of children.
- Place the sensor where it will not be subjected to tampering or physical damage. As the mounting height should not affect the readings of the sensor, consider mounting the sensor above than where it may be subjected to physical impact, theft or tampering.

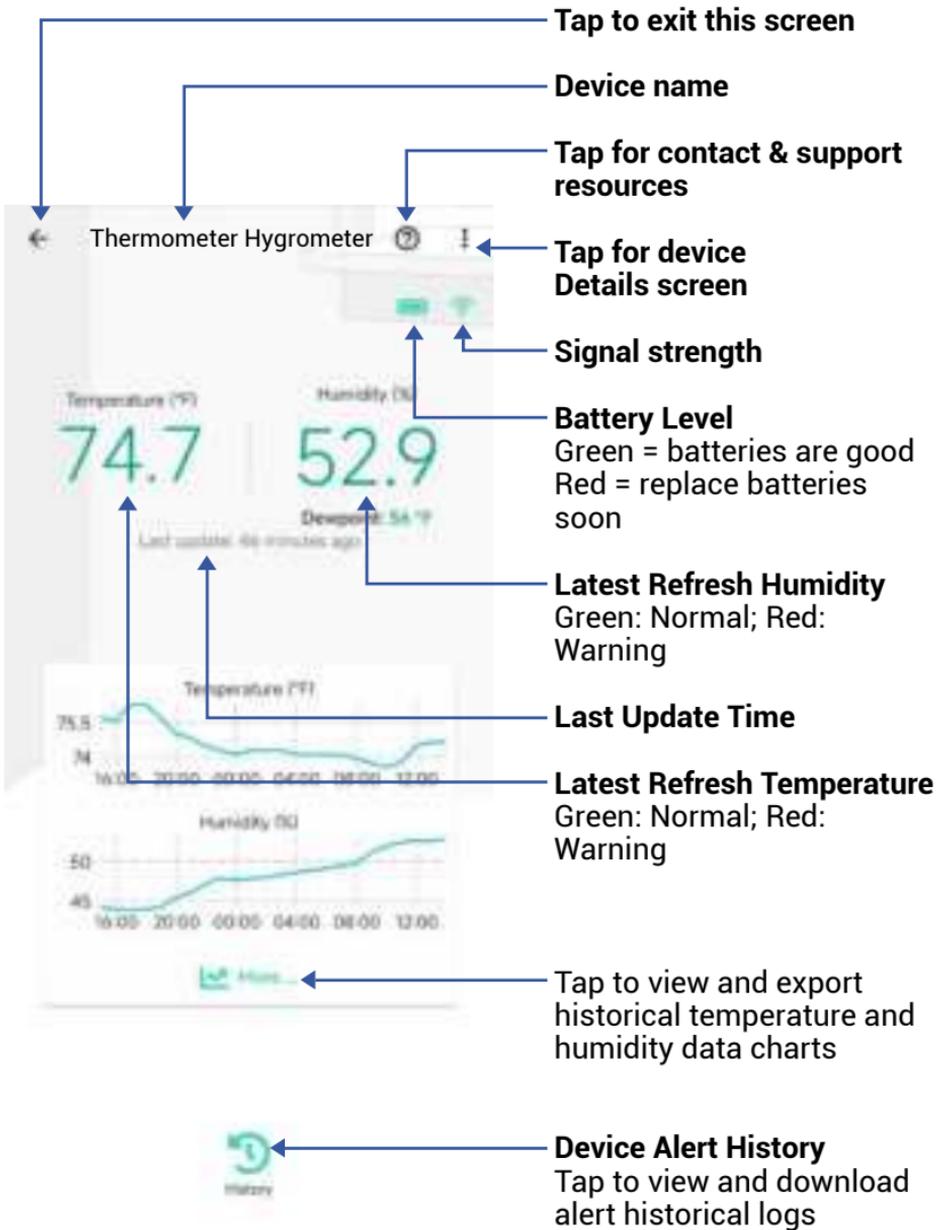
Install the Sensor

If you are hanging the sensor from a wall or other surface, provide a stable hook, nail, screw or other similar mounting method, and hang the mounting loop on it.

Consider the mounting method and/or secure it with tie wraps/zip ties or other similar method to protect the sensor from falling off the wall or surface.

J App Functions: Device Screen

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



K

App Functions: Device Details Screen

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

The screenshot shows the 'Details' screen for a 'Thermometer Hygrometer' device. The screen is divided into several sections. The top section contains settings for 'Type', 'Name', 'Room', 'Alert', 'Calibration', and 'Temperature Unit'. The middle section contains 'Favorite', 'History', and 'State'. The bottom section contains 'Other' information including 'Model', 'Device ID', 'SN', 'Signal Intensity', 'Battery', and 'Firmware'. A red 'Delete' button is located at the bottom of the screen. Blue arrows point from text labels to specific elements on the screen.

Field	Value
Type	Temp Humidity Sensor
Name	YS8007-UC
Room	YS8007-UC
Alert	[Settings Icon]
Calibration	[Settings Icon]
Temperature Unit	Fahrenheit °F
Favorite	[Heart Icon]
History	[History Icon]
State	Normal
Model	YS8007-UC
Device ID	a88b4c090005d6e6
SN	45460000000000000000
Signal Intensity	Strong (14 dBm)
Battery	100%
Firmware	000F weekly reset

Device Type

Device Name
(Tap to Edit)

Room
(Tap to Edit)

Alert
Tap to edit Alert Settings
(see Alert Settings)

Calibration
Tap to calibrate the sensor
(see page 20)

Temperature Unit
Tap to switch temperature unit

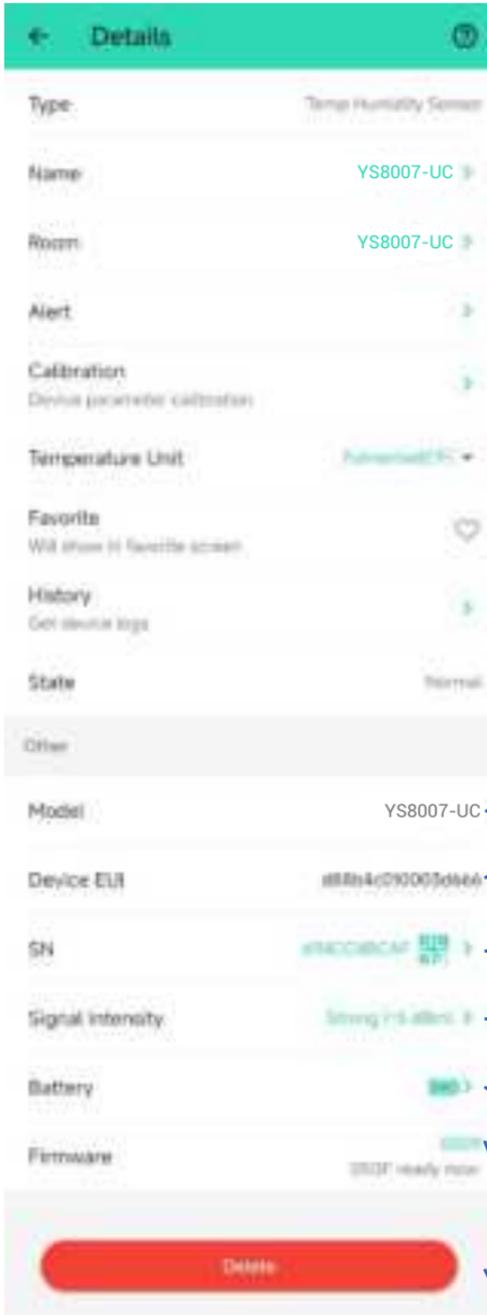
Favorite
(Red if Favorite, Tap to Edit)

History
Tap to view device history

Status

K

App Functions: Device Details Screen, Continued



Model Number

YS8007-UC

Device EUI

888b4c090005d4e0

Unique Identifier Number (Unique)

SN

81500000000000000000

Device Serial Number

Signal Intensity

Strong 75 dBm

Signal Intensity
(From YoLink Hub)

Battery

95%

Battery

Battery level indicator. If red, batteries are low; replace batteries soon.

Firmware

2023F ready now

Firmware Revision
(Refer to page 33)

Remove Device From Current Account

Tap to delete the device from your YoLink account



App aFunctions: Alert Settings Screen



Alarm Strategy
Tap to edit the sensor's Alarm Strategy

Tap here to open the digital temperature alert settings

Tap the slider control and adjust the high or low alert value. The "normal" range will be displayed in blue text as a low alert value, to the high alert value.

Alert interval
Choose how often you want to be reminded after an alert.

M App Functions: Chart Screen





App Functions: Alarm Strategy Screen

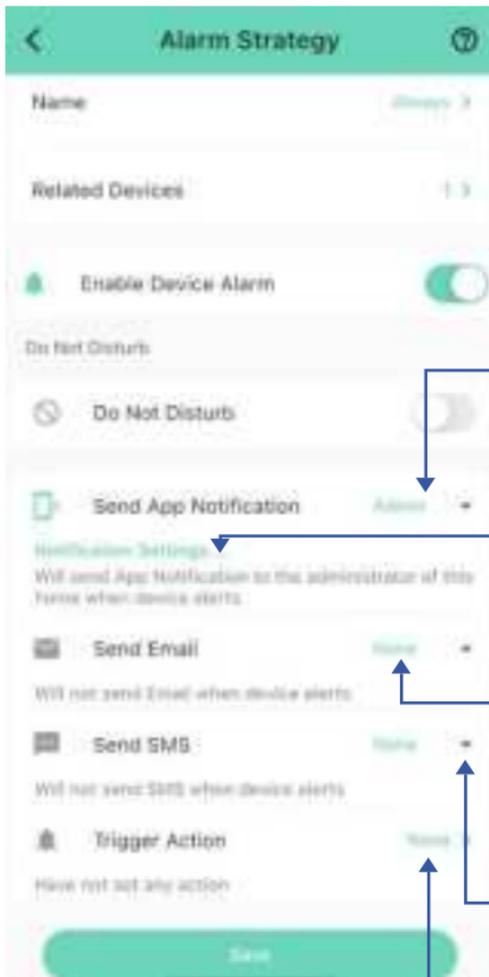
You can set up notifications in Alarm Strategy settings, make sure you have enabled App, Email, SMS notification from the app->Menu->Settings->Account Settings->Advanced Settings, and verified your email address and added your phone number in the app.

The screenshot shows the 'Alarm Strategy' settings screen. The title bar is green with a back arrow and the text 'Alarm Strategy'. Below the title bar, there are several sections: 'Name' (with a pencil icon), 'Related Devices' (with a plus icon), 'Enable Device Alarm' (with a toggle switch), 'Do Not Disturb' (with a toggle switch), 'Send App Notification' (with a dropdown menu), 'Send Email' (with a dropdown menu), 'Send SMS' (with a dropdown menu), and 'Trigger Action' (with a dropdown menu). A green 'Save' button is at the bottom.

- Strategy Name**
Tap to edit the name
- Related Devices**
Tap to add more devices (that can alert) to this strategy, a device can be related to only one strategy
- Tap to enable or disable the strategy**
- Tap to set up DND (Do Not Disturb)**

N

App Functions: Alarm Strategy Screen, Continued



Send App Notification

Tap to select Admin to enable App push, select All, if desired for all members

Notification Settings (iOS only)

Tap to change notification tone, if desired

Send Email

Tap to select Admin to enable email notification, select All, if desired to send to all members

Send SMS

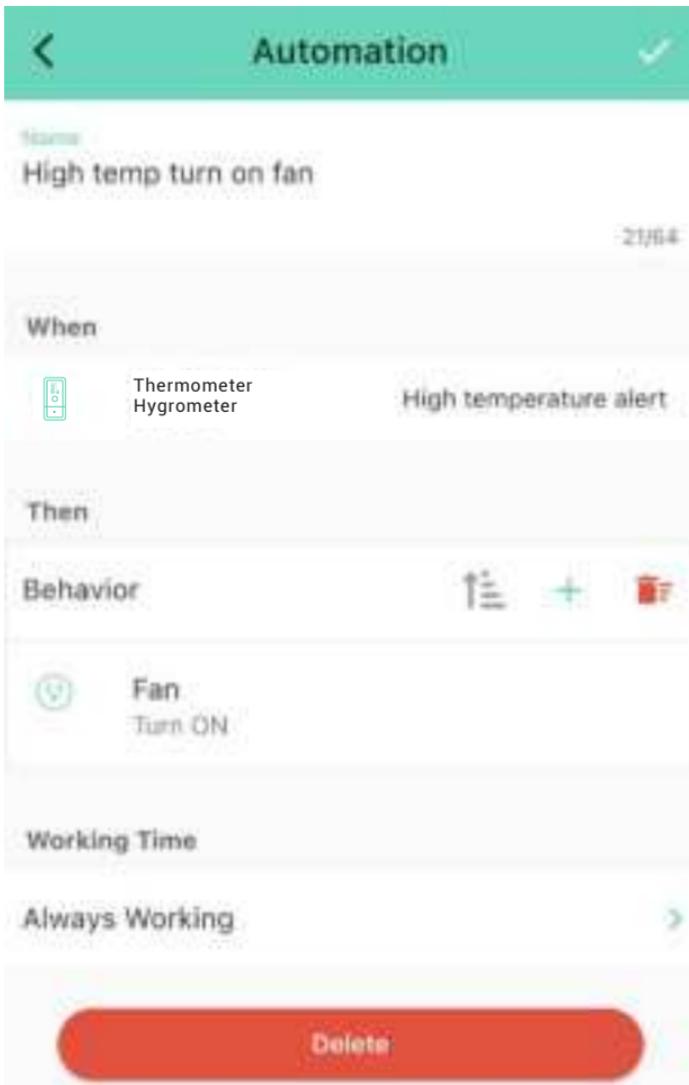
Tap to select Admin to enable limited text messages, select All (subscribe required-starter or standard plan), if desired to send to all members

Trigger Action

Tap to choose trigger actions (YoLink sirens, YoLink SpeakerHubs, scene)

0 App Functions: Automation

The Thermometer Hygrometer can be set up as a condition in an automation. For example, you can automatically turn on a fan if the sensor detects a high temperature. This example is shown below. The automation also sends a custom notification (via app push notification, email SMS, or SpeakerHub broadcast) reminding you the sensor detects high or low temperature.



P Sensor Calibration

Your Thermometer Hygrometer has a high-accuracy digital sensor that has been calibrated at the time of manufacture. Your sensor readings should always be accurate, but if you believe the sensor is not accurate and/or if you have a thermometer or trusted sensor, etc. that displays a different reading, you can adjust the humidity and temperature readings with a plus or minus offset of your choice. For example, if a calibrated or trusted thermometer reads 0.5 degrees higher than your sensor, you can adjust, or calibrate, the sensor reading to be 0.5 degrees higher than it normally displays.

P Sensor Calibration, Continued

How to Calibrate Your Sensor:

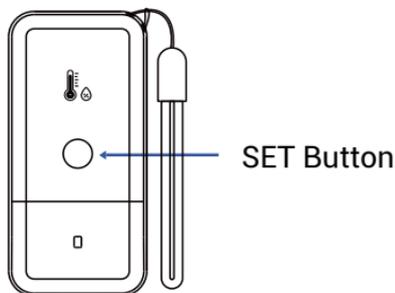
1. Open the sensor's **Details** screen and tap Calibration.
2. The Calibration screen is displayed, as shown below. To calibrate the temperature or humidity, tap and hold the associated slider bar control, then slide the control to the right, for a positive offset, or to the left, for a negative offset. The offset will be displayed with a "+" or "-" number. For example, to adjust the temperature plus 1 degree, tap and hold the Temperature control, and slide it slowly to the right, until "+1.0°" is displayed.



3. Tap the checkmark, to save your settings.

Q Sensor Refresh Frequency

Both temperature and humidity values refresh when one of the following conditions are met:



a. The SET button has been pressed

b.

- When temp is over 32°F (0°C), at least 1.8°F (1°C) change over a period longer than 1 minute;
- When temp is between 14°F (-10°C) and 32°F (0°C), at least 2.7°F (1.5°C) change over a period longer than 1 minute;
- When temp is between 5°F (-15°C) and 14°F (-10°C), at least 3.6°F (2°C) change over a period longer than 1 minute;
- When temp is below 5°F (-15°C), at least 9°F (5°C) change over a period longer than 1 minute.





Sensor Refresh Frequency, Continued



c. When temp is over or equal to 14°F (-10°C), at least 3.6°F (2°C) change within 1 minute; When temp is below -14°F (-10°C), at least 9°F (5°C) change within 1 minute.



d. At least 5% change over a period longer than 1 minute



e. Device alert level reached or restored to normal range

d. Otherwise, the values will be refreshed automatically once an hour

R 3rd-Party Services

The YoLink Thermometer Hygrometer works with several voice assistants, including Alexa and Google, and it works with other automation platforms such as IFTTT.

To set up voice assistant integrations, in the app, go to Settings, Third-Party Services, and follow the instructions.

Please note, IFTTT supports Thermometer Hygrometer as a trigger action (High Temp, Low Temp, High Humidity, or Low Humidity) in the routine.

Alexa now includes the capability to query the temperature of a device and utilizes the Thermometer Hygrometer for initiating trigger actions, based on high or low temperature (note that humidity-triggered actions are not supported).

Notably, in the Alexa interface, these temperature conditions are represented as motion sensors. For instance, when setting up a routine in Alexa, you can select "Sunroom Temp Humidity | High Temperature - Motion Detected" as the condition under the "when" section to initiate the routine.

R 3rd-Party Services, Continued

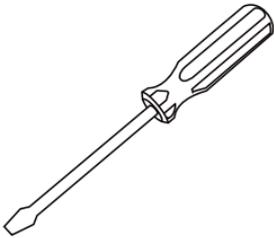
Google only supports querying the temperature or humidity of the devices.

For example, edit the name of the device in Alexa or Google to “Sunroom”, then you can ask: “Echo, what is the sunroom temperature?”

You can also try, “Alexa, what is the temperature of the Sunroom sensor?”

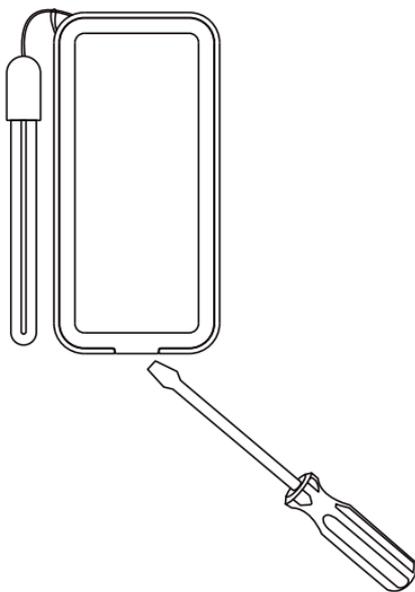
S Battery Replacement

Tools Required :



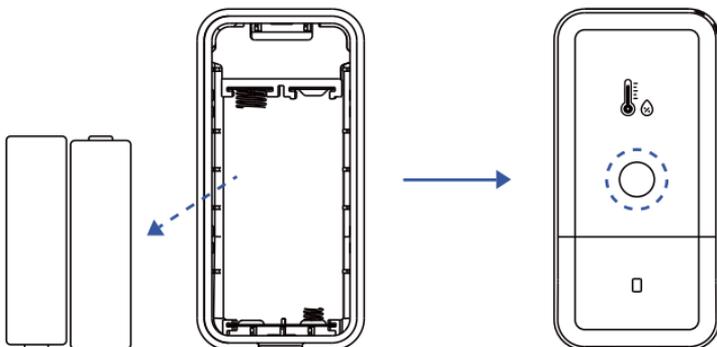
Small Phillips Screwdriver

- 1 Remove the battery compartment cover. Pry open the cover using a fingernail, or a slotted screwdriver. Start at the bottom of the device. Once part of the cover begins to separate, move your fingernail or screwdriver gently around the edges of the cover, until the back cover comes free.

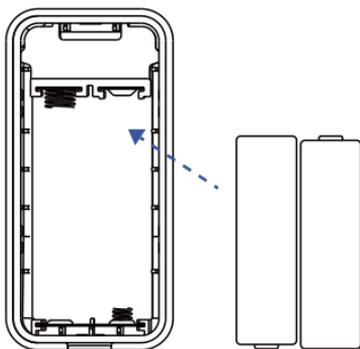


S Battery Replacement, Continued

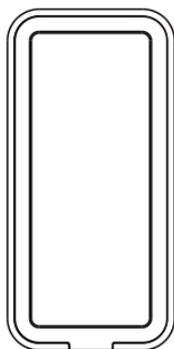
- 2 Remove the old batteries, press SET button several times to release capacitor.



- 3 Install two new alkaline AA batteries. (Do not mix old and new batteries)



- 4 Reassemble the battery compartment cover and tighten it firmly.



T Specifications

Voltage: 3V DC
(2 AA Alkaline Battery)

Device Current Draw: $\leq 135\text{mA}$ (operating),
 $\leq 35\mu\text{A}$ (standby)

Sensor Types: Temperature, Humidity

Temperature Value Accuracy: 0.1 ($^{\circ}\text{F}/^{\circ}\text{C}$)

Humidity Value Accuracy: 0.1%

Alert Temperature: -4°F - 129.2°F
(-20°F - 54°F)

Alert Humidity: 0%-100%

Dimensions: 3.14 x 1.49 x 0.98
inches (80 x 38 x 25
millimeters, LxWxD)

T Specifications, Continued

Temperature Error
(Typical):

-4°F-32°F, $\pm 0.72^\circ\text{F}$
(-20°C-0°C, $\pm 0.4^\circ\text{C}$)
32°F-129.2°F, $\pm 0.36^\circ\text{F}$
(0°C-54°C, $\pm 0.2^\circ\text{C}$)

Temperature Error
(Maximum):

-4°F-32°F, $\pm 1.26^\circ\text{F}$
(-20°C-0°C, $\pm 0.7^\circ\text{C}$)
32°F-129.2°F, $\pm 0.72^\circ\text{F}$
(0°C-54°C, $\pm 0.4^\circ\text{C}$)

Humidity Error
(Typical, @77°F
(@25°C)):

0%-10%/ 90%-100%,
 $\pm 3\%$
10%-90%, $\pm 2\%$

Humidity Error
(Maximum, @77°F
(@25°C)):

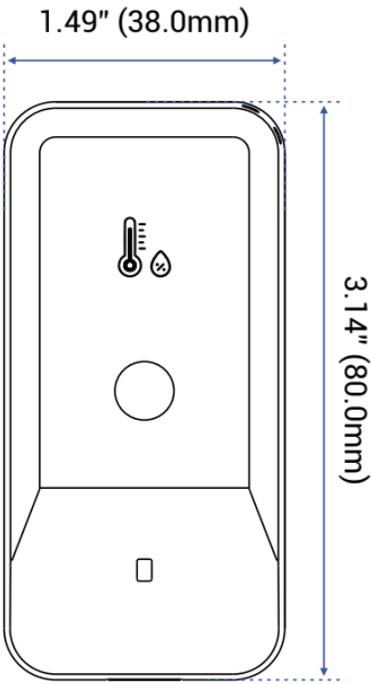
0%-10% / 90%-100%,
 $\pm 5\%$
10%-90%, $\pm 3.5\%$

Environment:

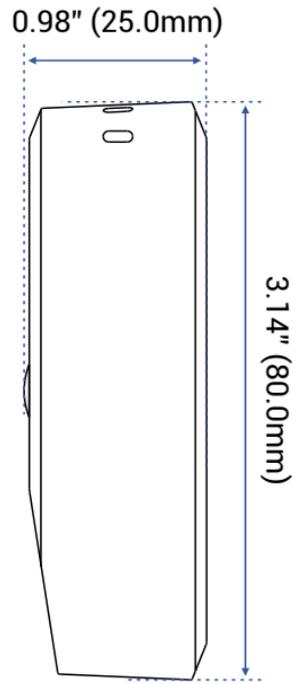
Working Temperature:
-4°F -129.2°F
(-20°C-54°C)
Working Humidity:
0-99%
(non-condensing)



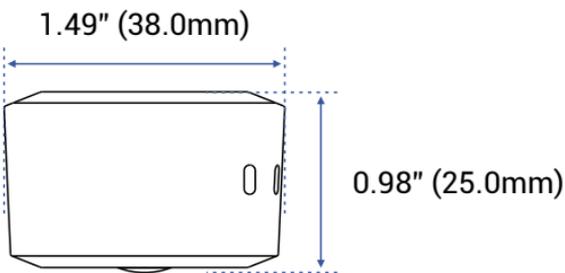
Specifications, Continued



FRONT



SIDE



TOP

U Factory Reset

When directed by customer support, and/or as an attempt to resolve a problem with your Thermometer Hygrometer, it may be necessary to perform a factory reset. Factory resetting your sensor returns it to the factory default programming and settings. This is a simple process:

Hold the SET Button for 20 to 30 seconds, until the LED blinks red and green alternately, then release the button.



Factory reset is complete when the LED stops flashing.



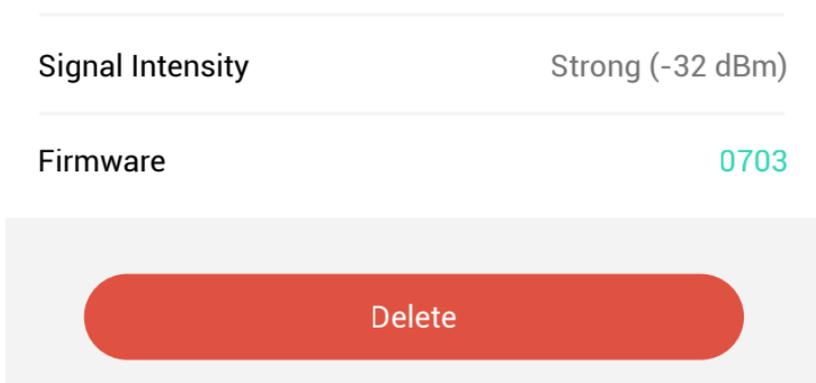
Only deleting a device from the app will remove it from your account.

If you previously used the Thermometer Hygrometer as an external temperature source for the YS4004-UC Thermostat 2 and plan to discontinue its use, please reset the Thermometer Hygrometer to factory settings and unpair it from the YS4004-UC Thermostat 2.

V 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 device firmware. For optimal performance of your device, and to give you access to any improvements made to your device model, these firmware updates should be installed (added to your device) when they become available.

In the **Details** screen of your device, 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).



V Firmware Updates, Continued

Firmware is like settings in your sensor that define the overall operations of the sensor. These settings are added to the sensor when it is manufactured, and they are periodically updated, as needed, to add improvements, new features, new integrations, etc, to your sensor, as they become available.

Tap in the Firmware area to start the update. The sensor will update automatically, indicating the progress by percentage-complete. You may use your sensor 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.



If you experience incomplete firmware updates, please update only one device at a time. If this does not resolve the problem, please contact our customer support department!

Problem:

Sensor is offline or has a low signal status.

Possible Solution:

a) Signal strength for the sensor is too low at that location. Move the sensor closer to the hub, relocate the hub closer to the sensor (if possible), or add another hub (to extend the signal range).

b) If offline, confirm the hub is powered on and connected to the internet. Otherwise, move sensor and/or hub or add a hub.

Problem:

Sensor temperature is not accurate, compared to another sensor

Possible Solution:

Your Thermometer Hygrometer does have a Calibration feature, that allows for adjusting the displayed temperature, to match that of a trusted temperature measuring device or method. See the Calibration section on page 20.

If this does not resolve the issue, please contact our customer support department (see the contact info on the last page of this guide).



We recommend checking for and performing any available firmware updates before contacting customer support. See Firmware Updates, page 33.

X Warnings

For optimal performance and lifetime of your Thermometer Hygrometer, please adhere to the following warnings:

- Please install, operate and maintain the Thermometer Hygrometer only as outlined in this manual. Improper use may damage the unit and/or void the warranty.
- When replacing the batteries, only use new alkaline non-rechargeable batteries. Do not use zinc blend batteries. Do not mix old and new batteries. Adhere to the battery manufacturer's safety and disposal or recycling instructions.
- Use care when using any tools, as sharp edges and/or improper use can result in serious injuries.
- Refer to Specifications for the device environmental limitations.
- Do not install or use this device where it will be subjected to high temperatures and/or open flame.
- Subjecting this device to outdoor environment conditions such as direct sunlight, extreme hot, cold temperatures or extreme humid, rain, water and/or condensation can damage the device and will void the warranty.

X Warnings, Continued

- Install or use this device only in clean environments. Dusty or dirty environments may prevent the proper operation of this device, and will void the warranty.
- If your Thermometer Hygrometer does get 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.
- 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.

2 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 2 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.

Z 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Z FCC Statement, Continued

- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

PRODUCT NAME:
THERMOMETER HYGROMETER

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS8007-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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