

## Valve Controller 2

YS5003(S)-UC



Installation & User Guide

Revision Feb. 22, 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

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### 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 Valve Controller 2 support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

<https://www.yosmart.com/support/YS5003-UC>

Or by scanning the QR code:



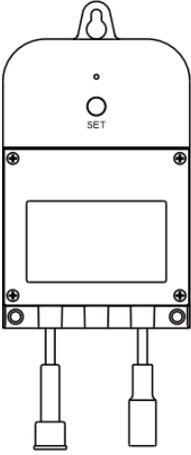
Download the most current version of the user guide by scanning the QR code:



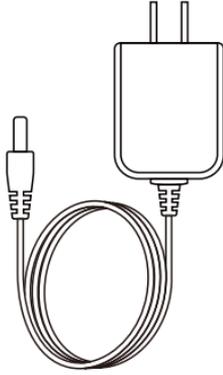
Your Valve Controller 2 wirelessly connects to the internet via a YoLink Hub, and it does not directly connect to your WiFi or local network. In order for remote access to the device. from the app, and for full-functionality, a YoLink hub is required. This guide assumes the YoLink app has been installed on your phone, and a YoLink Hub or SpeakerHub is installed and online.

# C In the Box

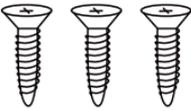
## YS5003(S) Items:



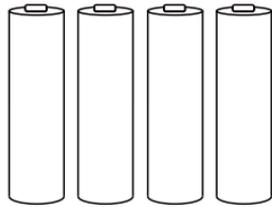
Valve Controller 2



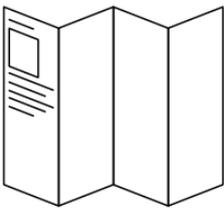
Plug-in Power Supply



Phillips Head Screws(3)



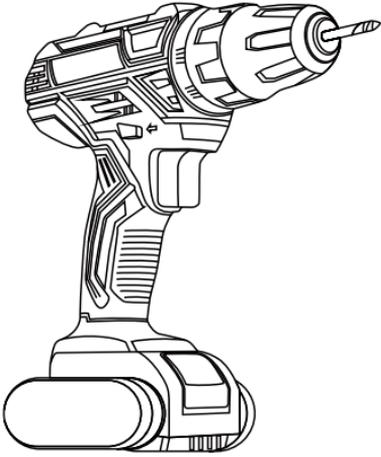
4 x AA Batteries (Pre-Installed)



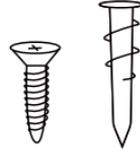
Quick Start Guide

## D Required Items

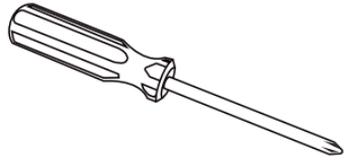
These tools or items may be required:



Drill with Drill Bits



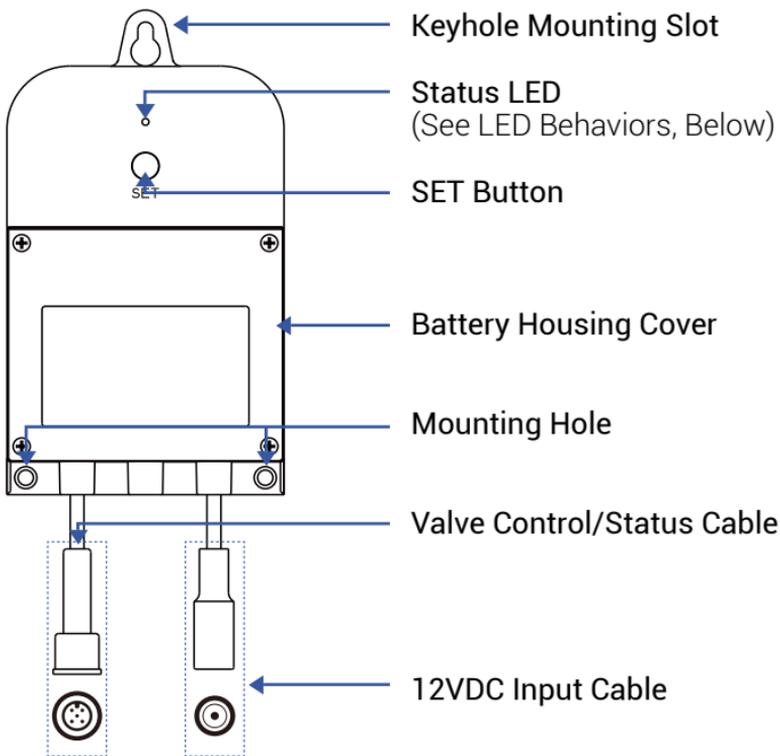
Wall Anchors



Medium Phillips Screwdriver

# E

## Get to Know Your Valve Controller 2

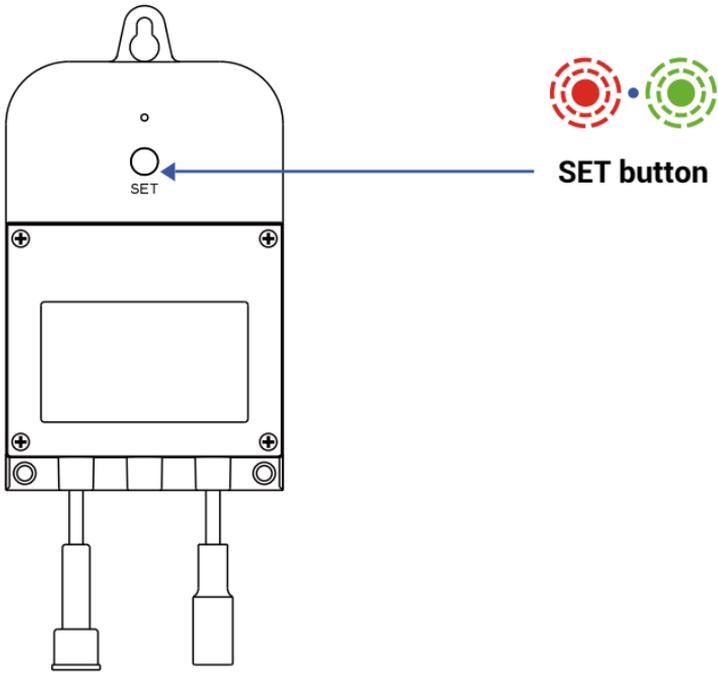


### LED Behaviors

-  **Blinking Red Once, Then Green Once**  
Device Start-Up
-  **Slow Blinking Green Twice**  
Connecting to Hub
-  **Blinking Red And Green Alternately**  
Restoring to Factory Defaults
-  **Quick Blinking Green**  
Control-D2D Pairing in Progress
-  **Blinking Red Once**  
Valve Closing
-  **Quick Blinking Red**  
Control-D2D Unpairing in Progress
-  **Quick Blinking Red Twice**  
Valve is Closed (YS5003S, Only)
-  **Slow Blinking Green**  
Updating
-  **Blinking Green Once**  
Valve Opening
-  **Fast Blinking Red Every 30 Seconds**  
Low Battery, Replace Batteries Soon
-  **Quick Blinking Green Twice**  
Valve is Open (YS5003S, Only)
-  **Green LED on Steady**  
12VDC Power Input Connected

## F Power Up

Power up the Valve Controller 2 by briefly pressing the SET button, until the LED flashes (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](mailto:no-reply@yosmart.com) with some helpful information. Please mark the [yosmart.com](https://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.



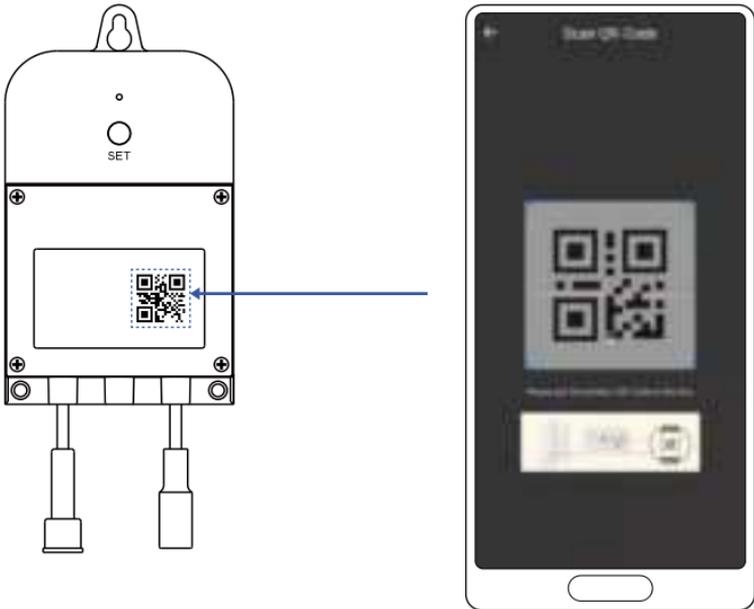
# Add Your Valve Controller 2 to the App

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.



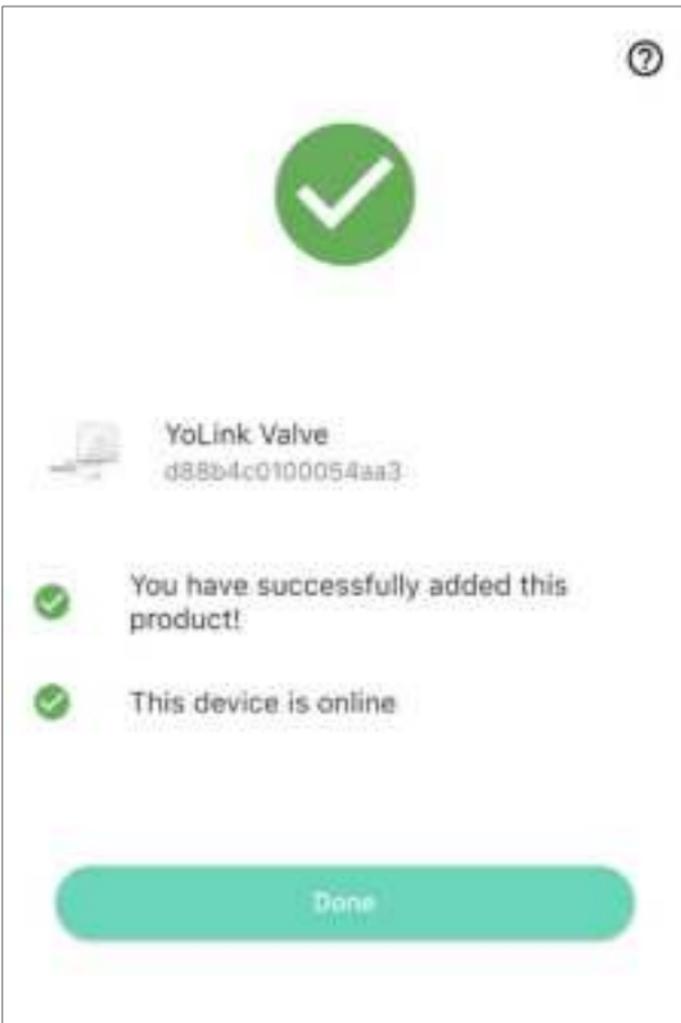
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.



## Add Your Valve Controller 2 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 Install the Valve Controller 2

### **Preparing for installation:**

Determine where you will mount the valve controller. The Valve Controller 2 was designed to be wall-mounted, at an indoor or outdoor location.

If installing your Valve Controller 2 and/or valve device at an outdoor location, please first refer to the environmental range specifications, found on the Valve Controller 2 product support page of our website. Also, while the Valve Controller 2, the EVO Valve Operator and our motorized valves are rated for outdoor use, to ensure years of dependable operation, provide protection from rain and direct sunlight with overhead cover, in the form of an enclosure or rain hood.

Do not install your valve controller or valve device at a location where it will be submerged in water.

Use of the 12VDC power supply/adaptor is optional. If you do not use the power supply/adaptor (or provide your own 12VDC power supply), the valve controller must have batteries installed. If you do connect a 12VDC power supply to your valve controller, the use of batteries is optional.



## Install the Valve Controller 2, Continued

With the use of optional extension cables, the valve controller can be installed remotely from the Valve Operator or motorized valve. In some cases this may allow placing the controller at a more convenient or more accessible location (for battery replacement, etc.). The location of the valve controller must be within the limits of the cables. If in doubt, connect all applicable cables between the controller and the valve device and the AC power outlet (if applicable) and choose an appropriate location for the controller. (Extension cables can be purchased on our website.)

Determine how you will mount the valve controller to the wall, and ensure you have the appropriate mounting hardware (screws, anchors, etc.) for the wall surface.

### **Install the Valve Controller 2:**

1. Holding the valve controller at the desired location, and using a marker or pencil, transfer the valve controller's top mounting hole location to the wall surface.
2. If using wall anchors, install one at the top mounting hole location, per the manufacturer's instructions (drill a pilot hole first, etc.)

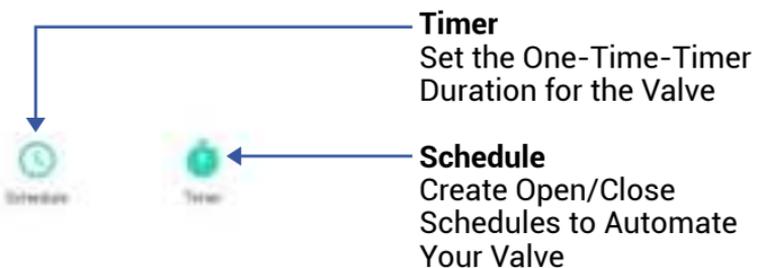
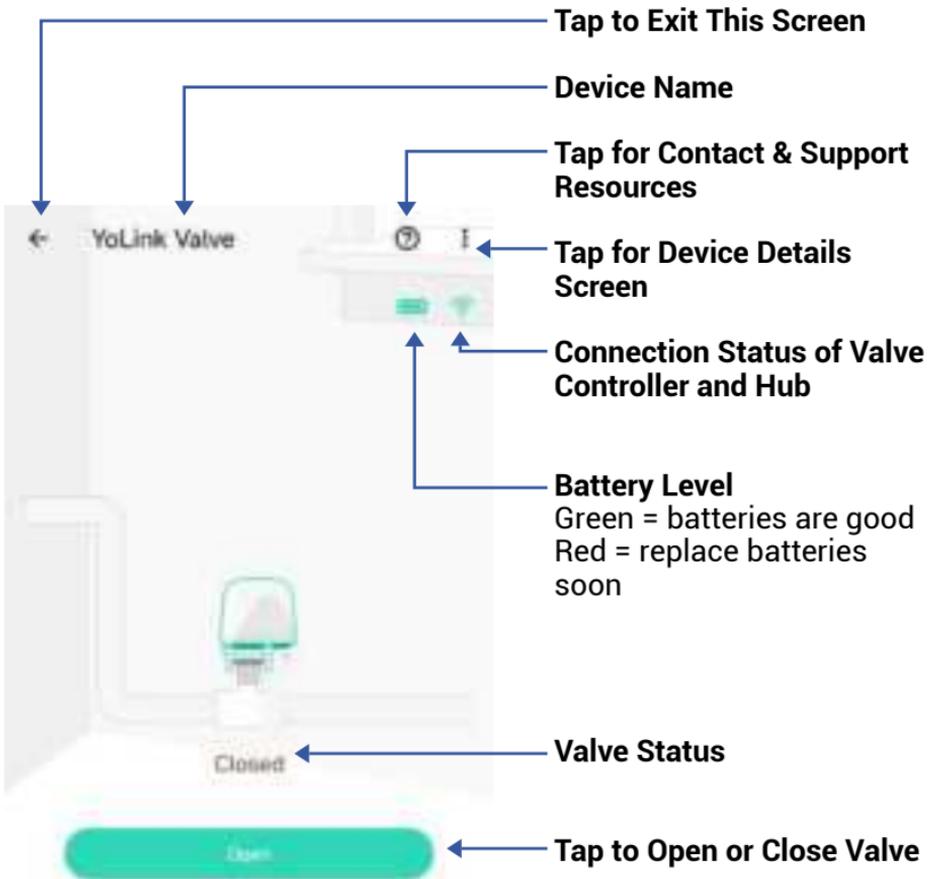


## Install the Valve Controller 2, Continued

- 3.** Insert a screw in the top mounting hole location, but do not screw it flush with the wall; leave space on the end of the screw for the valve controller.
- 4.** Hang the valve controller on this screw, and it should be level on the wall. Optionally, you can verify the valve controller is level with a level tool at this time. Using a marker or pencil, transfer the valve controller's two bottom mounting holes to the wall surface.
- 5.** If using wall anchors, install them at this time.
- 6.** Insert screws in each of the two bottom mounting hole locations.
- 7.** Tighten all three screws, and confirm the valve controller is secured to the wall surface.

## J App Functions: Device Screen

In the app, tap on your Valve Controller 2 icon. Your Valve Controller 2 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 Valve Controller 2 **Details** screen. Your Valve Controller 2 screen should be similar to the one shown below.

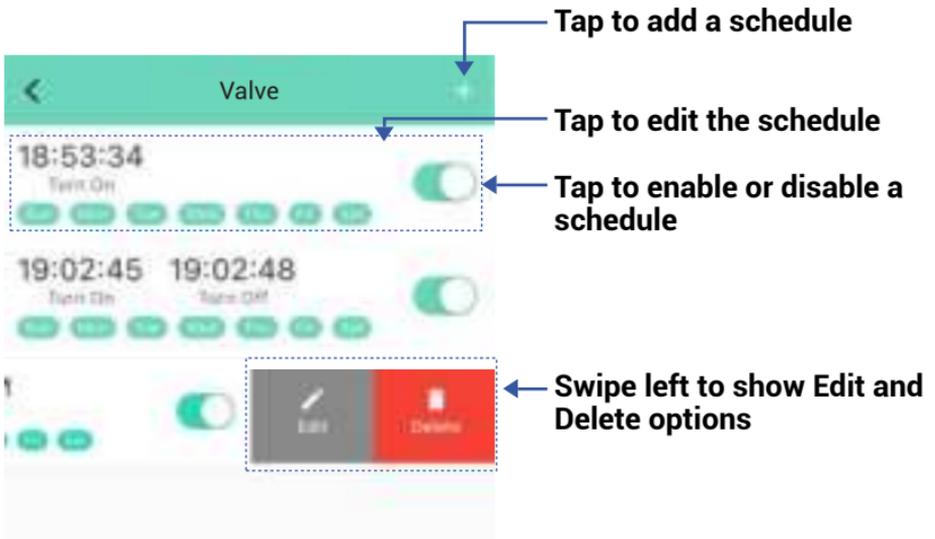
The screenshot shows the 'Details' screen for a Valve Controller 2 device. The fields and their values are:

- Type: YoLink Valve
- Name: YoLink Valve 2
- Room: Red Sun 2
- Favorite: Will show in favorite screen (Red heart icon)
- History: Get device logs (3)
- Open Reminder: Alert after left open (Disabled)
- State: Closed
- Time: 1/13 04:22:48 (GMT+0)
- Model: YS002-UC
- Device EUI: 0000000000000000
- SN: 0000000000000000
- Signal Intensity: Strong YoLink Hub 2
- Battery: 100%
- Firmware: 0.0.0

Annotations on the right side of the image:

- Device Type**: Points to the 'Type' field.
- Device Name (Tap to Edit)**: Points to the 'Name' field.
- Room (Tap to Edit)**: Points to the 'Room' field.
- Favorite (Red if Favorite, Tap to Edit)**: Points to the red heart icon.
- History (Tap to view device history)**: Points to the 'History' field.
- Open Reminder (Tap to Disable or Enable Open Reminder)**: Points to the 'Open Reminder' field.
- State**: Points to the 'State' field.
- Time (Tap to sync with mobile)**: Points to the 'Time' field.
- Model Number**: Points to the 'Model' field.
- Device EUI (Unique Identifier Number)**: Points to the 'Device EUI' field.
- Device Serial Number**: Points to the 'SN' field.
- Signal Intensity (From YoLink Hub)**: Points to the 'Signal Intensity' field.
- Battery**: Points to the 'Battery' field.
- Firmware Revision (Refer to page 25)**: Points to the 'Firmware' field.
- Remove Device from Current Account (Tap to delete the device from your YoLink account)**: Points to the red 'Delete' button at the bottom.

# L App Functions: Schedule

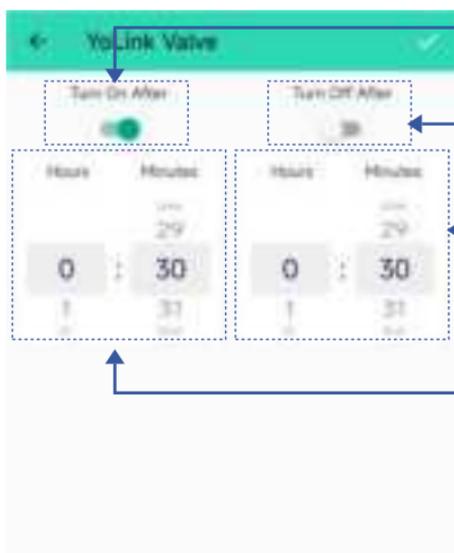


You can have a maximum 6 schedules at one time.

The schedule runs on the device (no internet connection required).

You can add more schedules in Automation settings. Automation settings are saved in the cloud.

## M App Functions: Timer



**Turn On After Valve**  
Slide to enable/disable

**Turn Off After Valve**  
Slide to enable/disable

**Set the duration**  
When enabled, the Valve will close after this timer duration has elapsed

**Set the duration**  
When enabled, the Valve will open after this timer duration has elapsed

The timer starts when the settings are saved (by tapping the checkmark at the upper right of the screen).

You can add more timers in Automation settings. Automation settings are saved in the cloud.



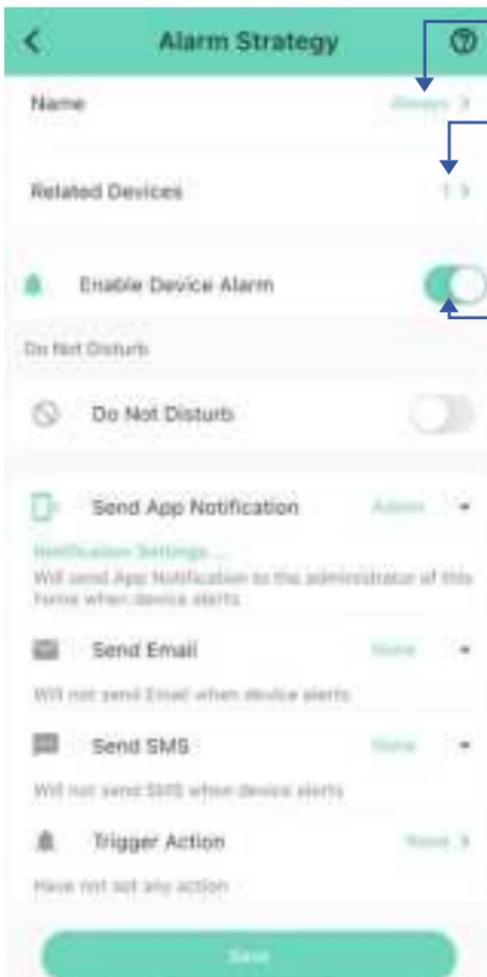
The timer will run only once. You can set a new timer after the timer has already run once or after you cancel it.

The timer runs on the device (no internet connection required).



# 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.



**Strategy Name**  
Tap to edit the name

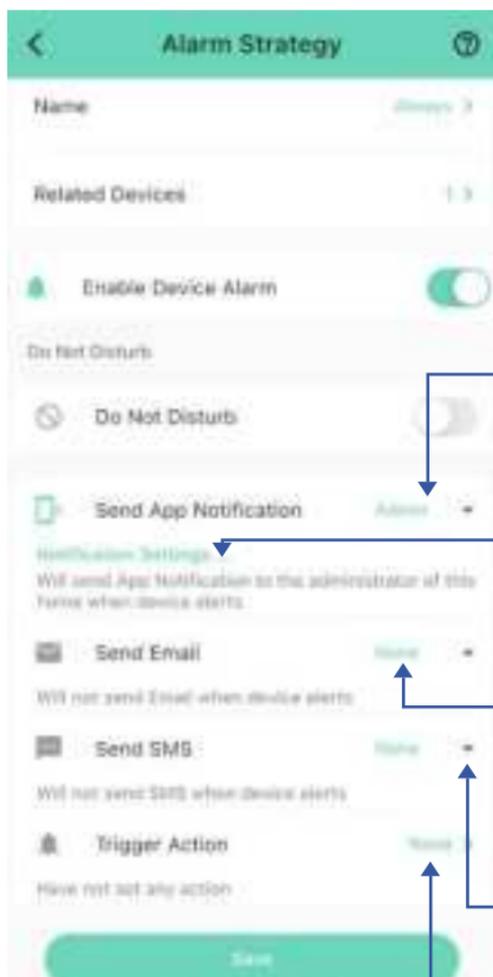
**Related Devices**  
Tap to add more devices (that can alert) to this strategy, a device can be related to only one strategy

**Tap to Enable or Disable The Strategy**

**Tap to Set Up Dnd (Do Not Disturb)**



# 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, if desired to send to all members

### Trigger Action

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



# App Functions: Automation

The Valve Controller 2 can be set up as a condition in an automation.

The screenshot shows the 'Automation' settings screen for an 'Auto Shut Off' automation. The screen is divided into several sections: 'When' (condition), 'Then' (behavior), 'Working Time', and 'Advanced Settings'. Callouts point to specific elements:

- Tap to save the settings**: Points to the checkmark icon in the top right corner of the automation header.
- Edit the name of the automation**: Points to the 'Auto Shut Off' title.
- Tap to set a condition for the automation**: Points to the 'When' section, which currently shows '2000 Leak Sensor' and 'Water Leak Alert'.
- Add behavior**: Points to the green plus sign icon in the 'Then' section.
- Tap to add a behavior**: Points to the red minus sign icon in the 'Then' section.
- Delete the behavior**: Points to the red minus sign icon in the 'Then' section.
- Tap to sort behaviors**: Points to the sort icon (three horizontal lines) in the 'Then' section.
- Always Working**: Points to the 'Always Working' option under the 'Working Time' section.
- Tap to set when the automation can be activated**: Points to the 'Always Working' option under the 'Working Time' section.
- Advanced Settings**: Points to the 'Advanced Settings' section at the bottom.
- Tap to edit advanced automation and logging settings**: Points to the 'Advanced Settings' section at the bottom.

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.

### **Problem:**

The valve controller is offline

### **Possible Solutions:**

- Ensure the Valve Controller 2 is on. Repeat the Power Up section steps, if needed
- Replace the batteries

### **Problem:**

The valve controller does not respond to the SET button being pressed and/or the EVO Valve Operator is unresponsive

### **Possible Solutions:**

- Ensure the Valve Controller 2 is on. Repeat the Power Up section steps, if needed
- Double check the cable connectors for correct and tight connections
- Replace the batteries

## Q Control D2D

YoLink Control-D2D is our unique device-to-device control technology. Using Control-D2D, compatible YoLink devices can control or be controlled by other YoLink devices, without a hub or internet connection. One device can control another device, directly.

A device that controls or sends out commands is called the **controller**. A device that is controlled or receives the commands is called the **responder**. An example of a controller are a Water Leak Sensor, while examples of a responder are a Siren Alarm or a Valve Controller 2.



Use of YoLink Control-D2D is optional.

One device can be Control-D2D-paired to up to 128 other devices.

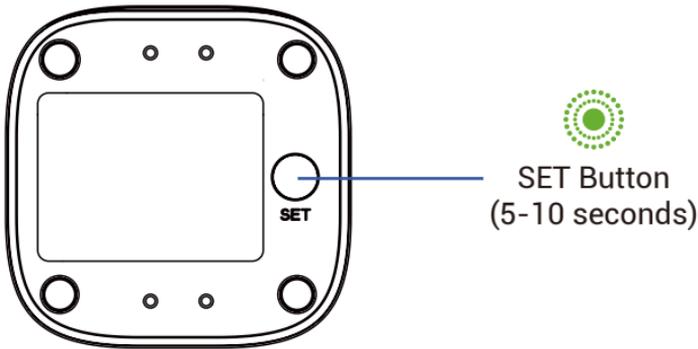
Pairing is separate from the app and any automation, scenes or alarm strategies you may have configured in the app. Use care to not create automations that conflict with Control-D2D-pairing and vice-versa.

During pairing, the controlled device must be in the state (open, on, unlocked, etc.) that it should transfer to when signalled by the controller.

## Q Control D2D, Continued

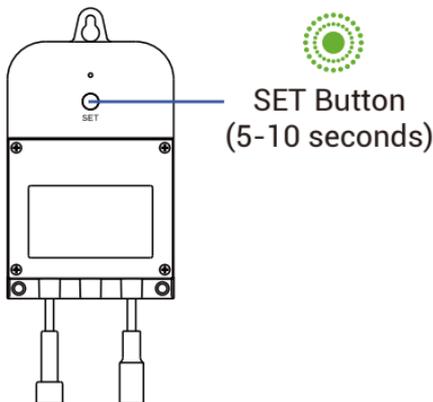
### Pairing

1. To configure a Water Leak Sensor 1 as a controller, press and hold the leak sensor's SET button for 5-10 seconds, until the LED quickly blinks green, then release the button.



2. To configure the Valve Controller 2 as a responder, first ensure that the valve is in the closed position. Press and hold the controller's SET button for 5-10 seconds until the LED quickly blinks green, then release the button.

Upon pairing, the LED will stop blinking. This may happen after only blinking two or three times.



## Q Control D2D, Continued

### Testing

1. Ensure the valve is in the normal (open) position.
2. Test the water leak sensor (if needed, refer to the sensor user guide for testing instructions).
3. Verify that the valve closes immediately when the leak sensor is activated.

### Unpairing

1. At the Water Leak Sensor, press and hold the SET button for **10-15** seconds, until the LED quickly blinks green then red, then release the button.
2. At the Valve Controller 2, press and hold the SET button for **10-15** seconds, until the LED quickly blinks green then red, then release the button.

Upon unpairing, either the Water Leak Sensor LED or the Valve Controller 2 LED will stop blinking and turn off.

At this time, you can test the leak sensor to confirm it no longer activates the valve controller. If you also have any automations or alarm strategies that may also control the valve controller, disable them before testing.

## R Factory Reset

Factory reset will erase device settings and restore it to factory default settings. Doing a factory reset will not remove the device from your account and it will not harm the device, or lose any data or require you to redo your automations, etc.

### **Instructions:**

Hold the SET button down for 20-30 seconds, until the LED blinks red and green alternately. Then, release the button. (Holding the button down longer than 30 seconds will abort the factory reset operation)

Factory reset will be complete when the LED stops blinking.



Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app.

## S Firmware Update

Your YoLink products are constantly being improved, with new features added. It is periodically necessary to make changes to your device's firmware. For optimal performance of your system, and to give you access to all available features for your devices, these firmware updates should be installed when they become available.

In the Detail screen of each device, at the bottom, you will see the Firmware section, as shown in the image below. A firmware update is available for your device if it says "#### ready now"

Signal Intensity

Strong (-32 dBm)

Firmware

0703

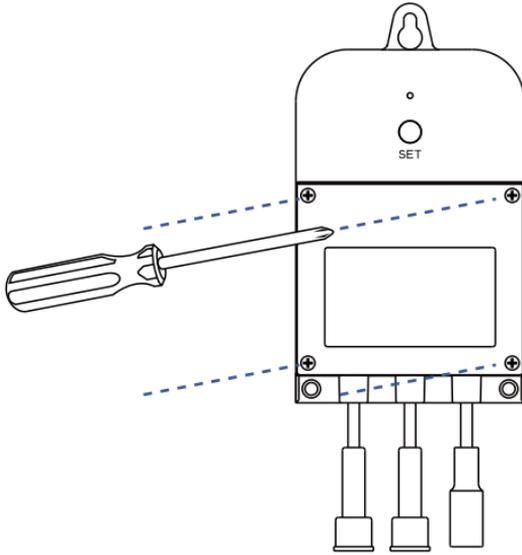
Delete

Tap in this area to start the update.

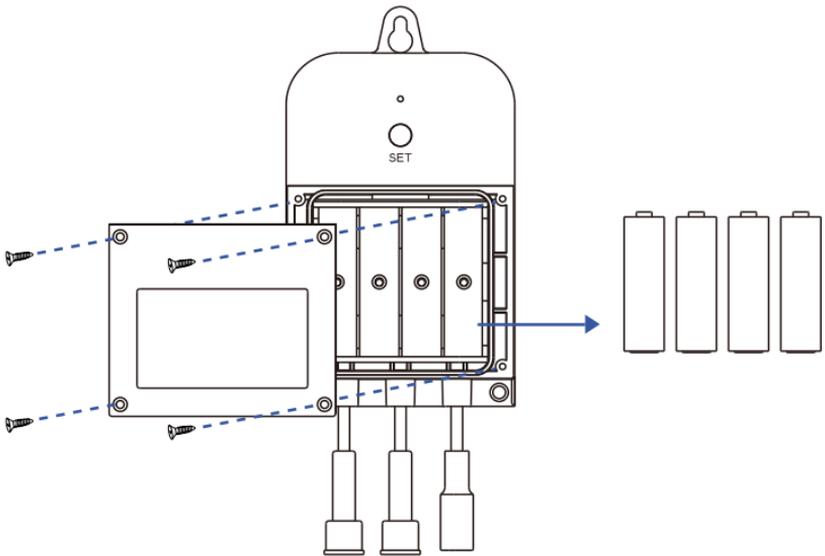
The device will update automatically, indicating progress by percentage-complete. You may use your device during the update, as the update is performed "in the background". The LED will slowly blink green during the update, and the update may continue for several minutes beyond the LED turning off.

# T Battery Replacement

1. Using a Phillips screwdriver, loosen the four battery cover screws, and remove the battery compartment cover.

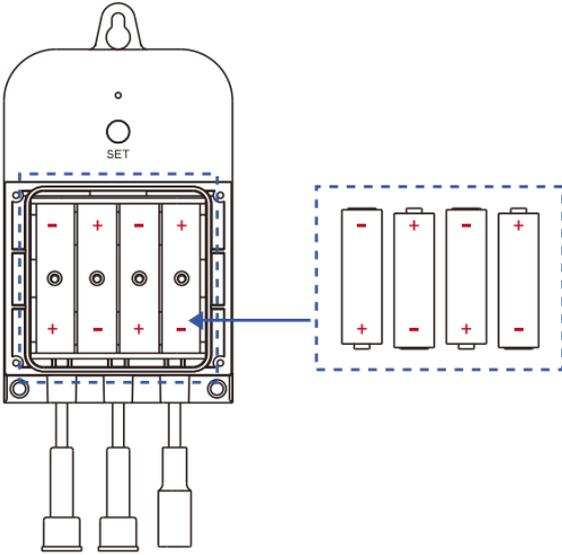


2. Remove all four batteries.



## T Battery Replacement, Continued

3. Observing the correct battery position and polarity, replace them with new AA batteries



4. Replace the battery compartment cover and tighten the screws.

5. In the app, verify the Valve Controller 2 is online and the batteries are indicated as good.



The Valve Controller 2 can be powered by alkaline or lithium-ion batteries. Do not use rechargeable or other type batteries.

## U Warnings

- Please install, operate and maintain the Valve Controller 2 (and Motorized Valve or EVO Valve Operator or valve operator) only as outlined in this manual. Improper installation or 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 specifications.
- If used outdoors, for the maximum life of the device, provide overhead cover or a protective enclosure. This can protect it from the damaging effects of intense direct sunlight and/or rain over a period of years.
- Do not immerse or allow the devices to be immersed or submerged in water.
- Avoid placing the devices in extremely dirty or dusty environments.
- If the device does get dirty, please clean it by wiping it down with a clean dry cloth. Do not use strong chemicals or detergents, which may damage or discolor the exterior and/or damage the electronics, voiding the warranty.
- Do not install the device where it may be subjected to vandalism, abuse, physical impacts or strong vibrations. Physical damage is not covered by the warranty.

## U Warnings, Continued

- Power the controller only with new AA alkaline or lithium-ion batteries. Do not use rechargeable batteries, do not use other type batteries (e.g. zinc blend). Do not mix old and new batteries.
- If storing the controller for extended periods, remove the batteries.
- Please contact Customer Support before attempting to repair, disassemble or modify the device, any of which can permanently damage the device and void the warranty.

## **V** Warranty

### **1 Year Limited Mechanical Device Warranty 2 Year Limited Electrical Device Warranty**

YoSmart warrants to the original user of this product that it will be free from defects in materials and manufacturing workmanship, under normal use, for 1 year from the date of purchase for motorized valves, valve operator and the EVO Valve Operator and for 2 years from the date of purchase for the Valve Controller 2.

The warranty does not cover abuse or misused products, nor does this warranty apply to products that have been improperly installed, were modified, or put to a use other than designed. This warranty does not cover products subjected to acts of God (such as floods, lightning strike or electrical surge, or earthquakes, etc.).

This warranty is limited to repair or replacement of the product only at YoSmart's sole discretion. YoSmart will NOT be liable for any costs associated with removing or reinstalling the product. YoSmart will NOT be liable for direct or indirect or consequential damages to persons or property resulting from the use of this product.

The warranty only covers the cost of replacement products or parts. It does not cover shipping and handling charges or fees.

To implement this warranty, please refer to the Contact Us section of this 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



## 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:  
VALVE CONTROLLER 2

---

PARTY:  
YOSMART, INC.

---

TELEPHONE:  
831-292-4831

---

MODEL NUMBER:  
YS5003-UC

---

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

---

EMAIL:  
SERVICE@YOSMART.COM

---

## **X** IC Caution

### **-English:**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

To maintain compliance with RSS-102 RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

### **-French:**

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour être conforme aux lignes directrices d'exposition RF RSS-102, cet équipement doit être installé et exploité à une distance minimale de 20cm entre le radiateur et votre corps: n'utilisez que l'antenne fournie.



## 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](mailto: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](http://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](mailto:feedback@yosmart.com)

Thank you for trusting YoLink!

YoLink Customer Support

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