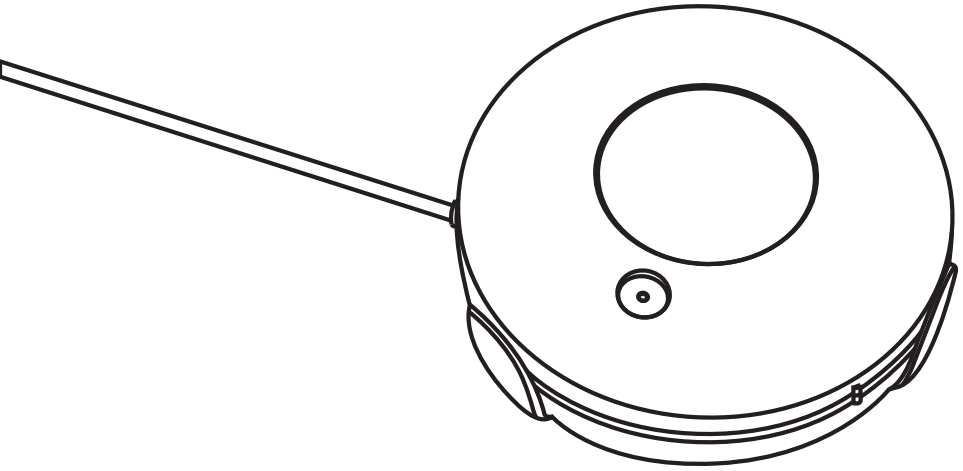
AWTOS

Auto Water Turn-Off System

Water Sensor

USER MANUAL



QUALITY

GUARANTEED

Model Number: AWNASWS020

Version & Date: N2503001

Table of Contents

Introduction

Water damage is one of the most common and costly issues homeowners face. Leaks can go unnoticed until they cause serious damage—but with the AWTOS Water Shut-Off Valve, you can take action before that happens.

The AWTOS Water Shut-Off Valve automatically detects leaks and shuts off your water supply, helping prevent costly repairs and unexpected damage. Adding the Water Sensor Kit enhances protection by detecting moisture in vulnerable areas, such as near appliances, pipes, and basements. Together, they provide an extra layer of security against water damage.

Both devices connect to your home's Wi-Fi, allowing you to monitor and control your water system from anywhere using the "AWTOS" app.

This manual will guide you through installation, setup, and operation to help you get the most out of your system.

Specifications

Battery: CR123A 3V * 1

Standby current: 1.8uA

Standby lifetime: 2~3years

Working current: 80-110mA

1 year: 15times/day

2 years: 7 times/day

Wireless frequency: 2.4GHz

Wi Fi standard: IEEE 802.11b/g/n

Wireless distance: 45M

Bluetooth version: Bluetooth 5.0

Operating temperature: 0 ℃~50 ℃ (32 ° F~122 ° F)

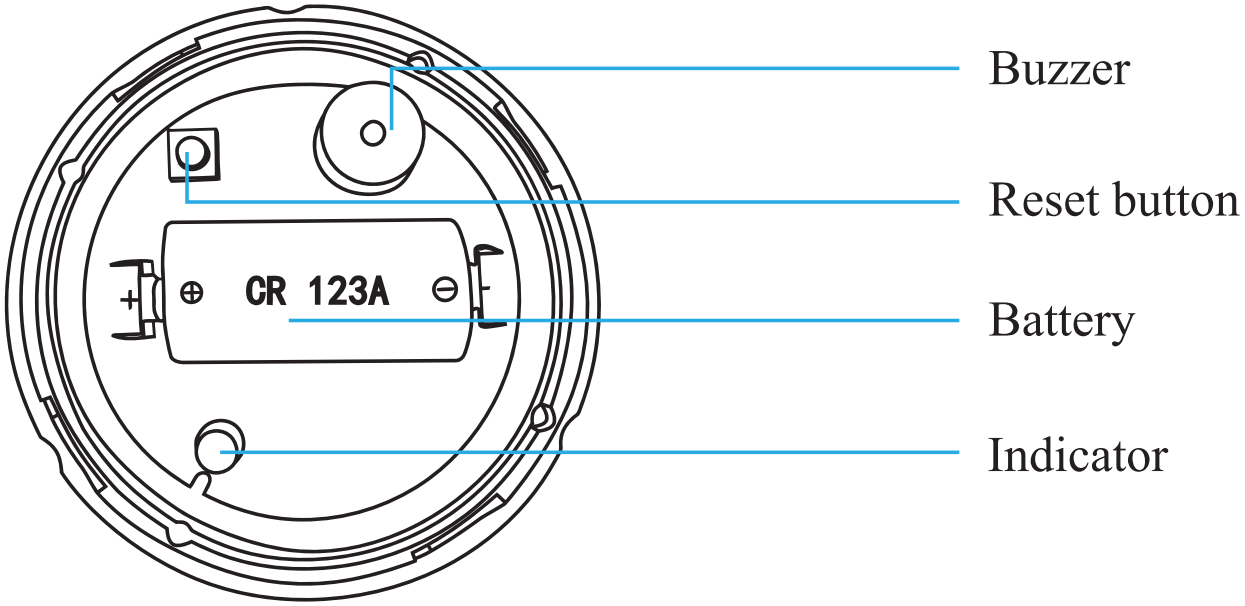
Operating humidity: 1% ～ 95% RH (non condensing)

Product size: 68mm x 68mm x 34mm

LED State

Device Status	LED State
Smart Wi-Fi Mode/ Bluetooth Mode	The indicator light flashes 2 times in 1 second
AP Mode/Bluetooth Mode	The indicator light flashes once in 2 seconds
Reset	Press the reset key for 6 seconds, and the buzzer ringsand the buzzer will sound

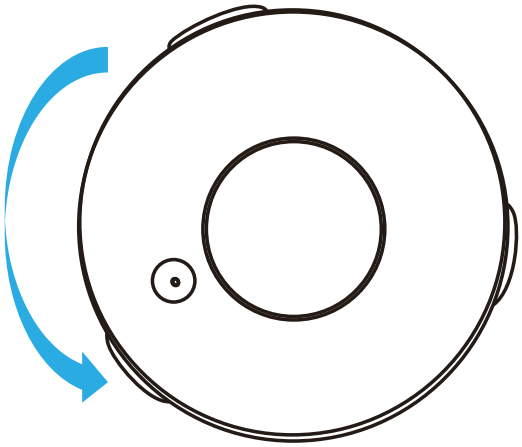
Product Configuration

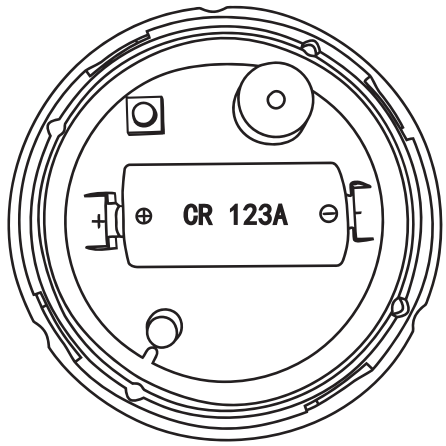


Installation

1. Power on the device

(1) Rotate counterclockwise to remove the upper cap
(2) Remove the cell insulation sheet





2. Installation and Use

(1) Attach the equipment base to the wall with 3M glue or screws
(2) Connect the probe cable to the bas
(3) Install the device into the base

Get Started

Download APP

Download the "AWTOS" app from

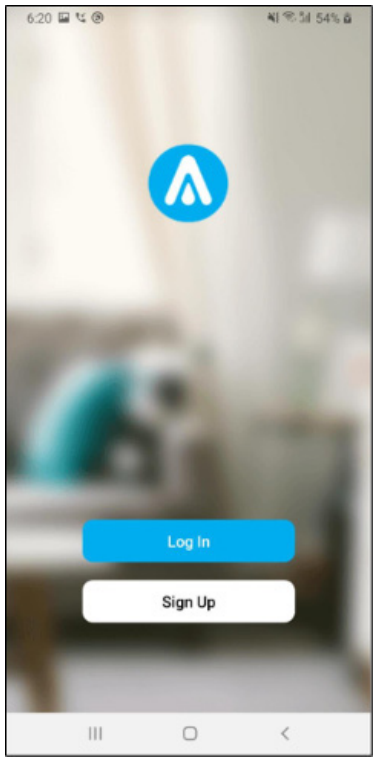
APP Store or Google Play to your mobile.

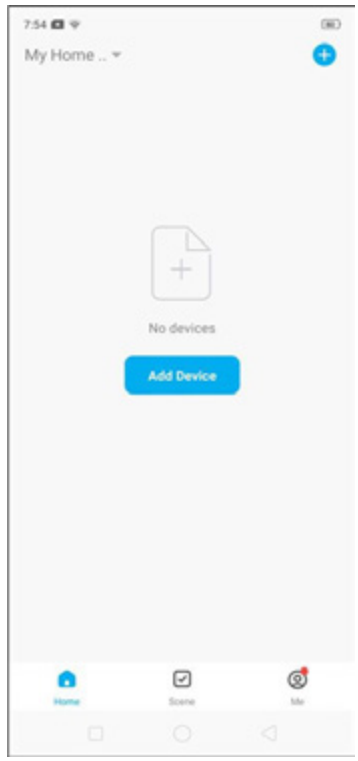
Available on the APP Store

Available on the Google Play

Register and Login

1. Run“AWTOS”application from your smartphone.
2. Register and login.



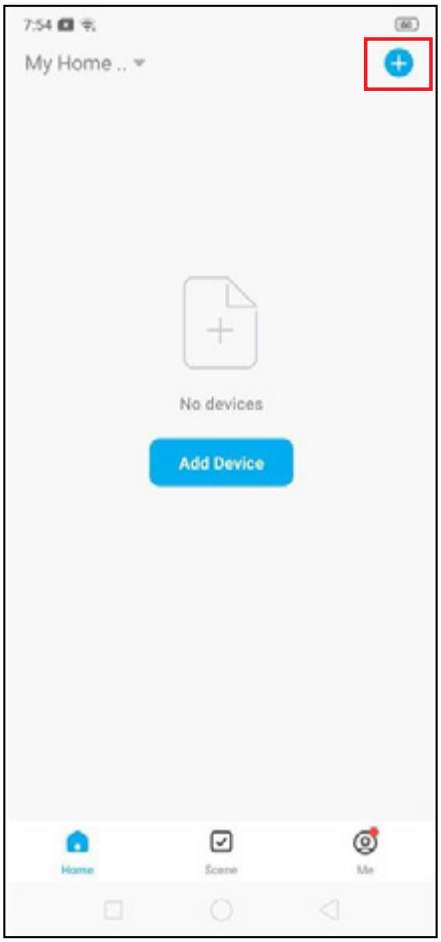


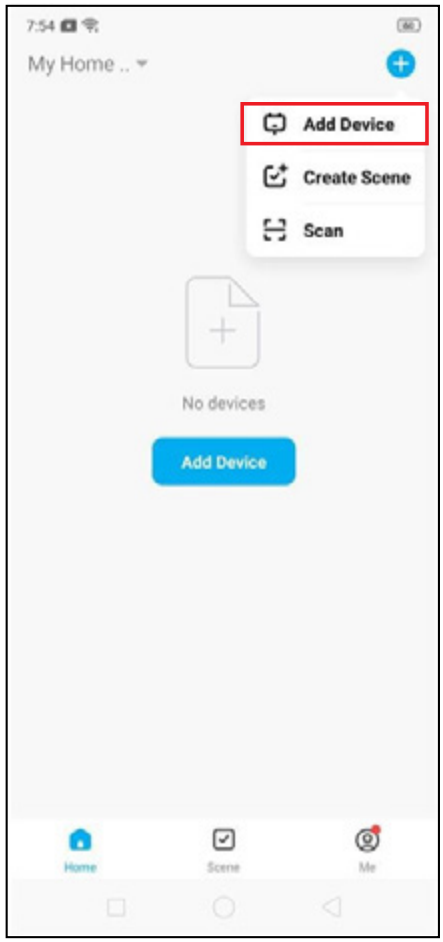
Add Device

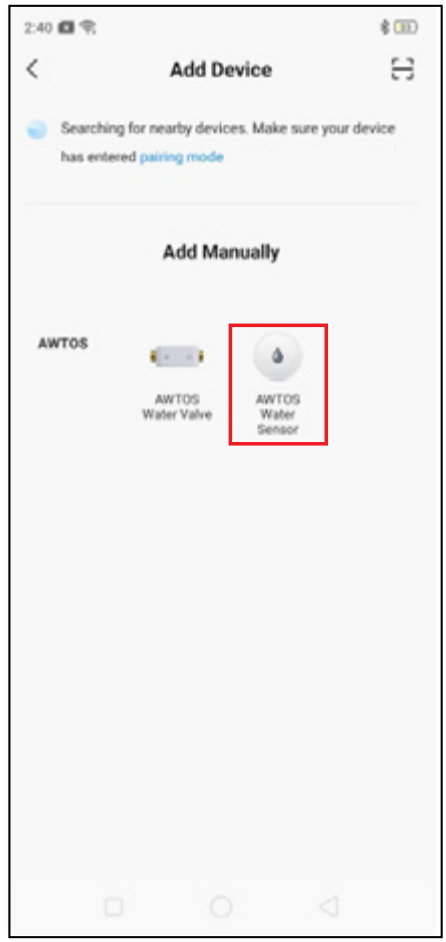
By default, the device is in pairing mode (indicator light blinks); if the reset button indicator light is not on, please press and hold the reset key for 6 seconds and then add the device.

Note: *The device only supports 2.4GHz Wi-Fi signals.; this manual takes the socket as an example, and the products are added in the same way***.**

1. Select the device type to add

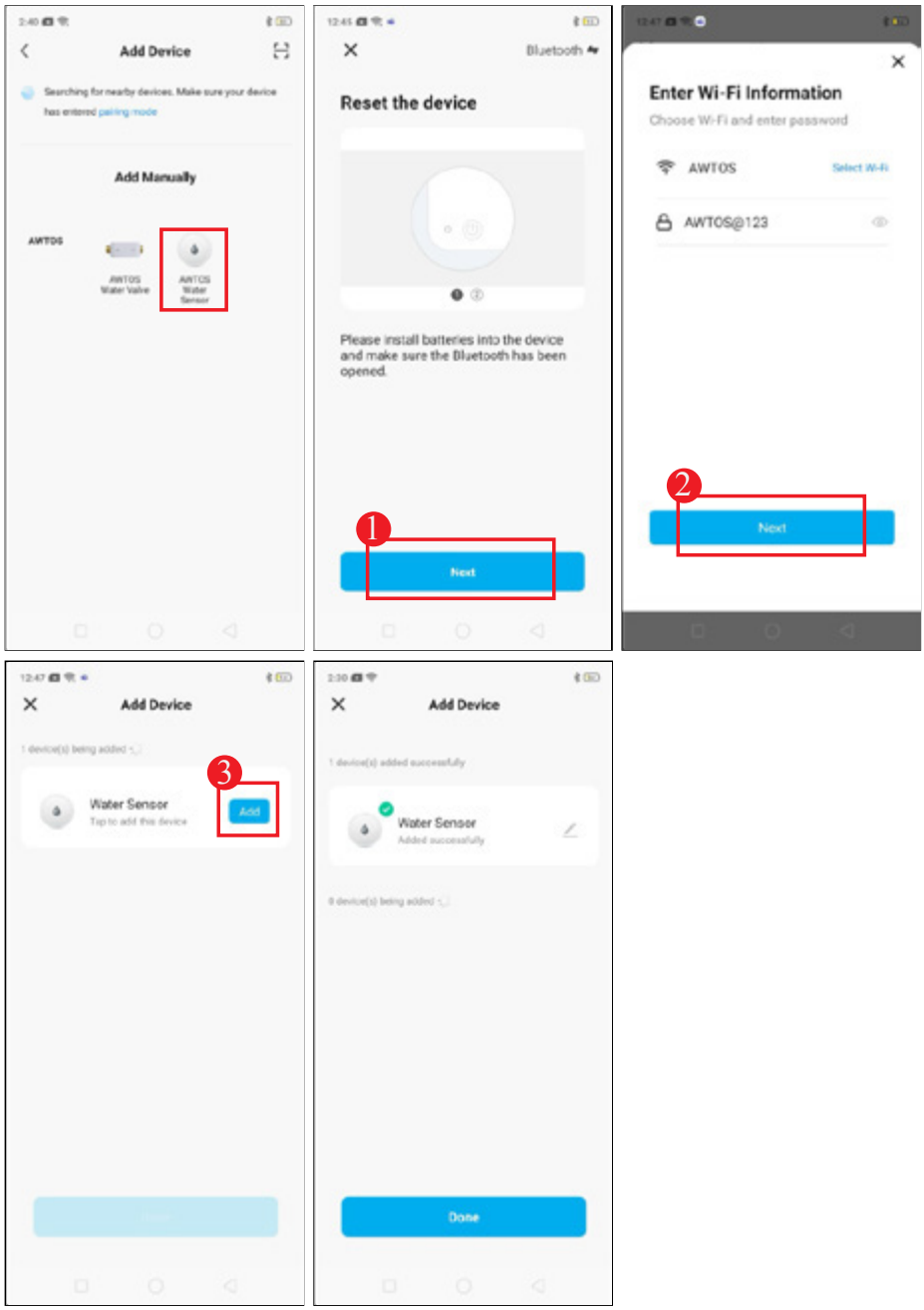




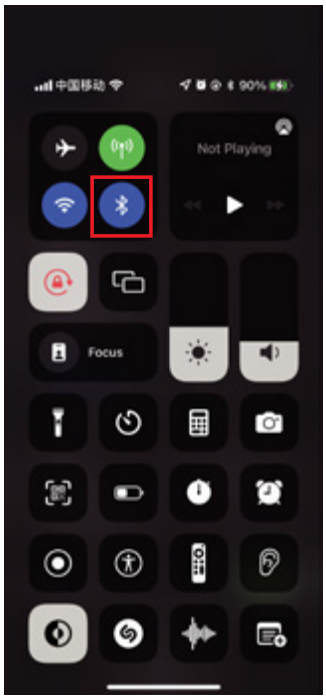


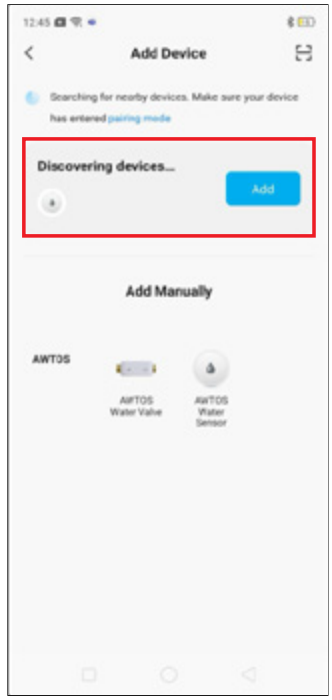
2. Bluetooth pairing(suggested)

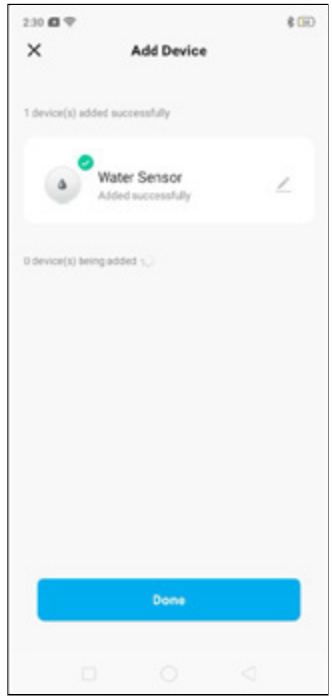
Method 1: Active Bluetooth in Mobile phone to add the device through Bluetooth mode (the standby mode can be added with Bluetooth)



Method 2: After activating Bluetooth, enter the APP interface, the device will be automatically searched by Bluetooth, and then click “Add”

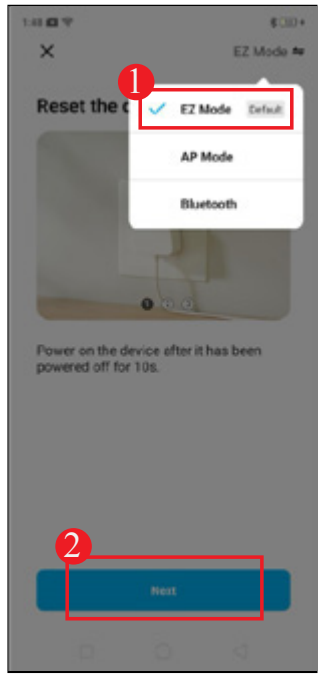


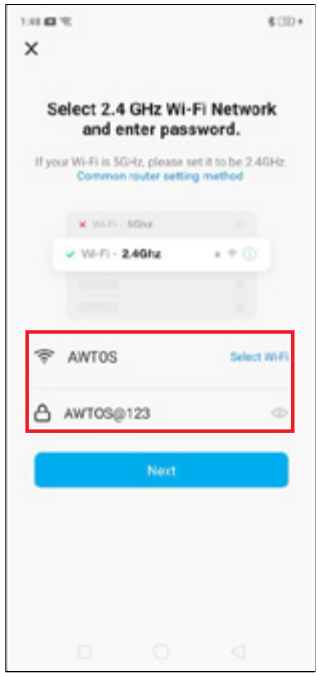


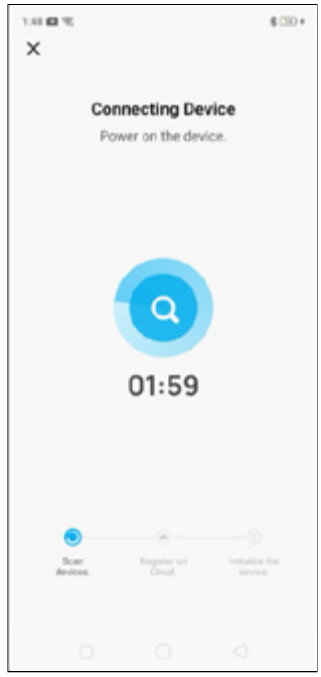


3. Smart Wi-Fi pairing

Press the reset button until the device flashes slowly (pairing mode) and add (follow the APP tips)





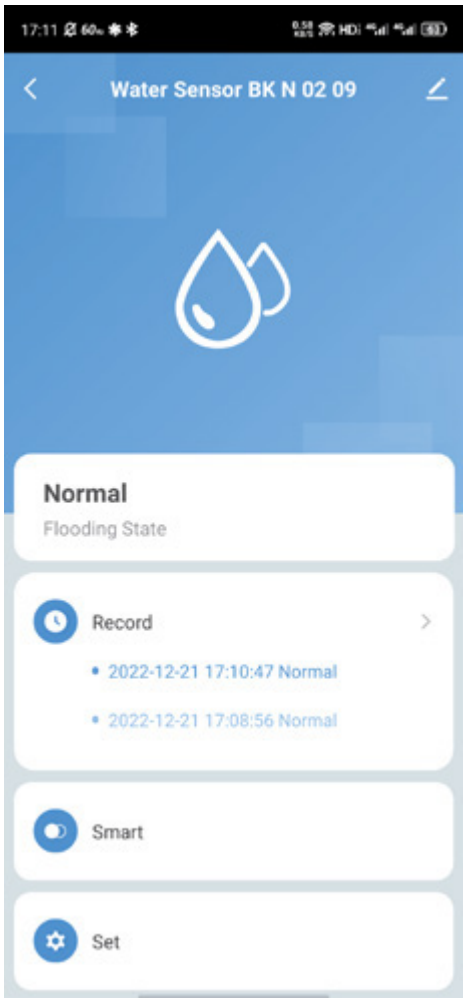


Functions and Settings

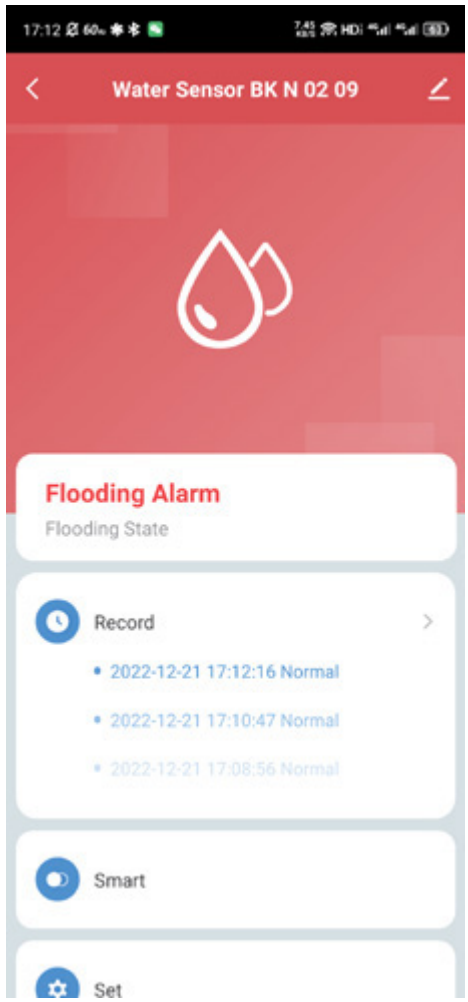
Main functions, working status and record Settings

1. APP main interface

Whack

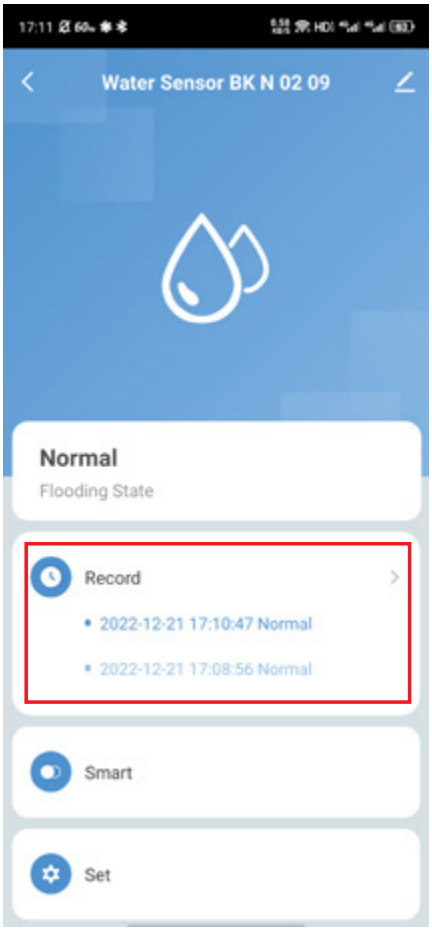


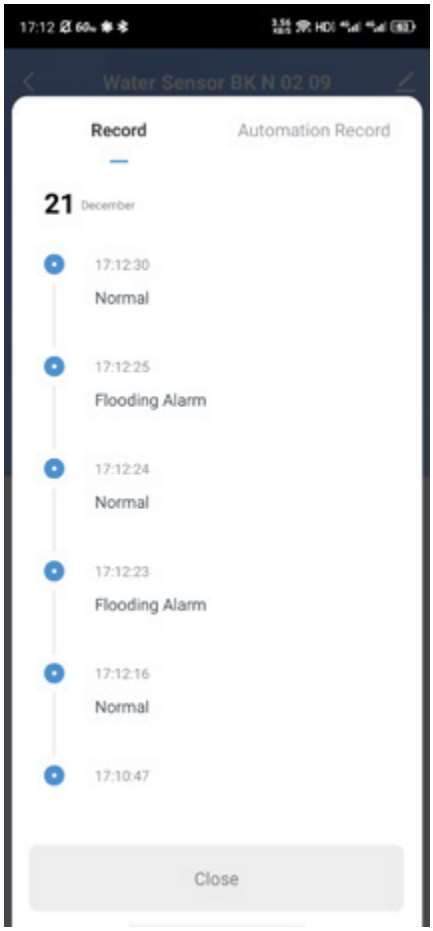
Alarm status

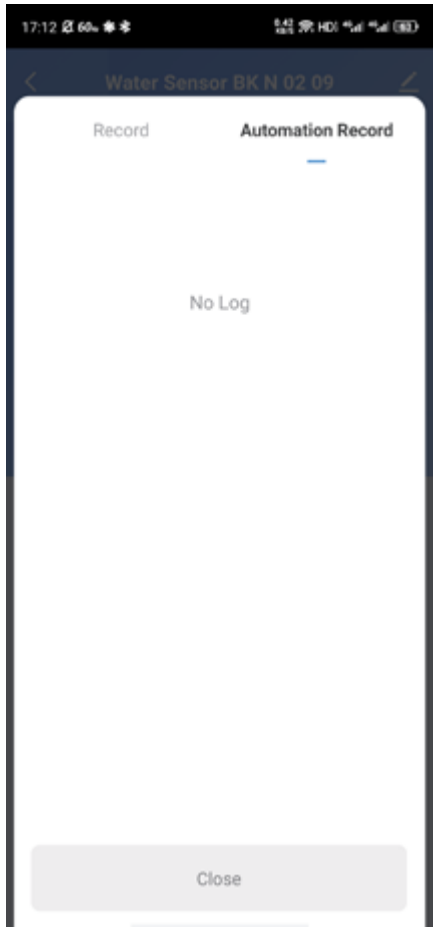


2. Main functions

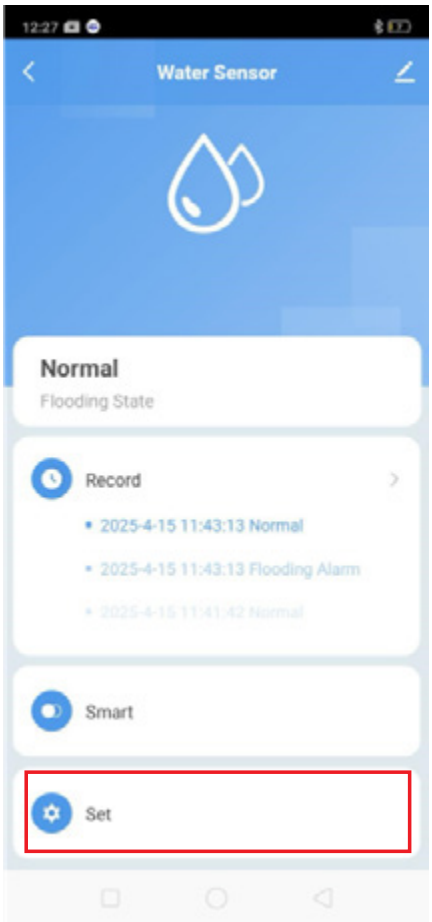
2.1 Historical records

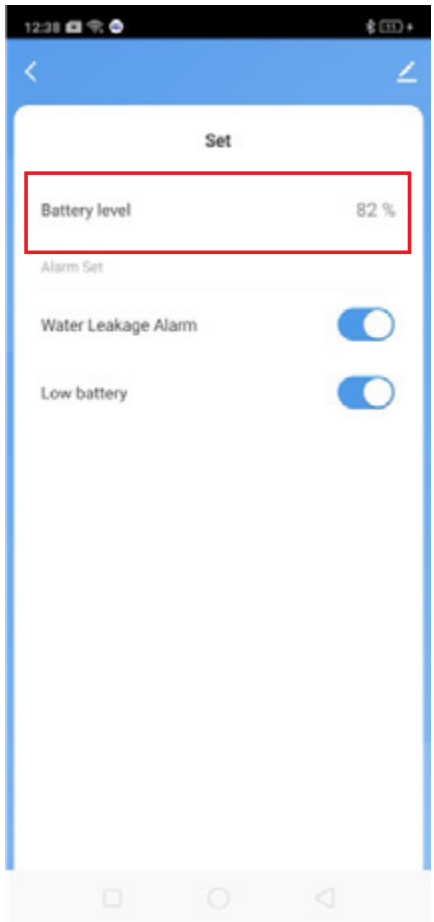




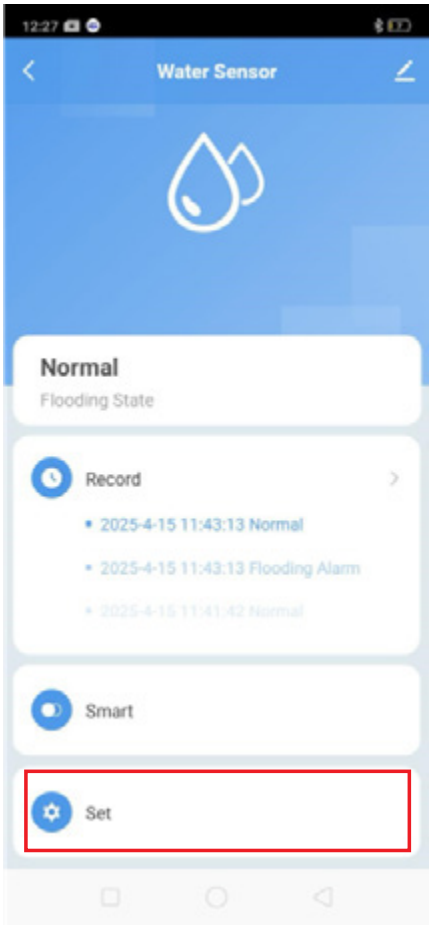


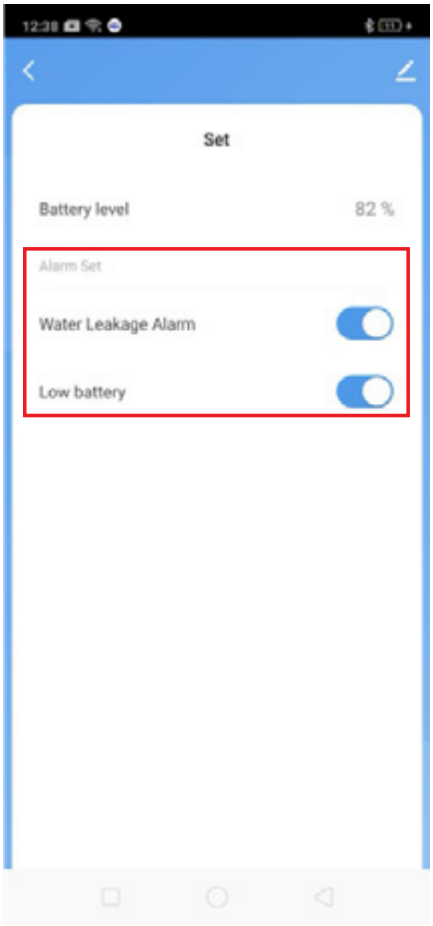
(1) battery status





(2) When the alarm is closed, the alarm push will not be received, and will not affect the alarm of the equipment itself

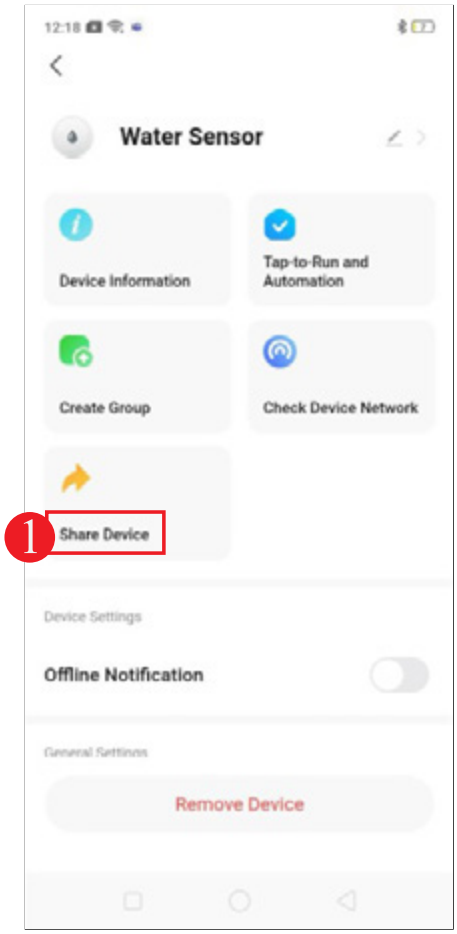


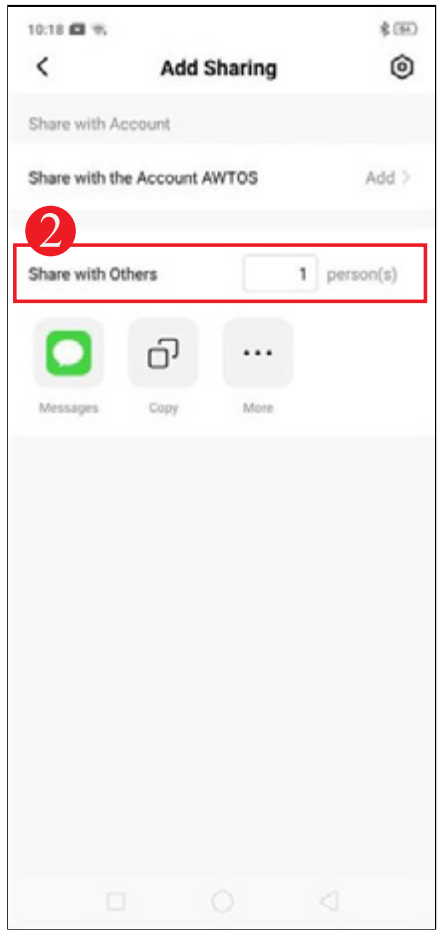


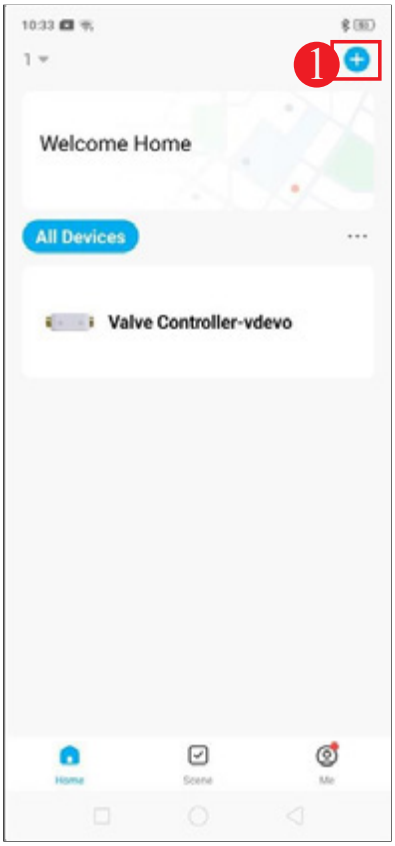
Other Function

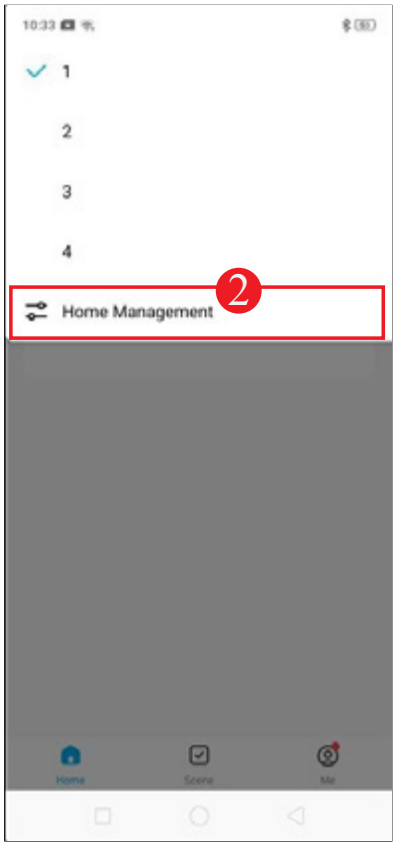
1. Share device

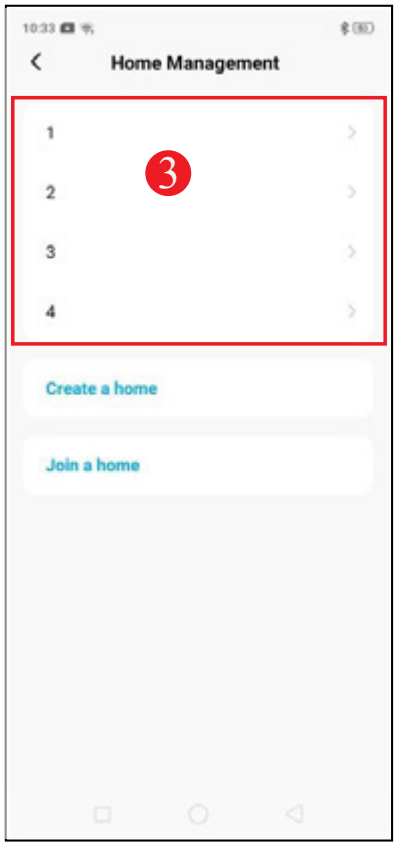
(1) Single device sharing

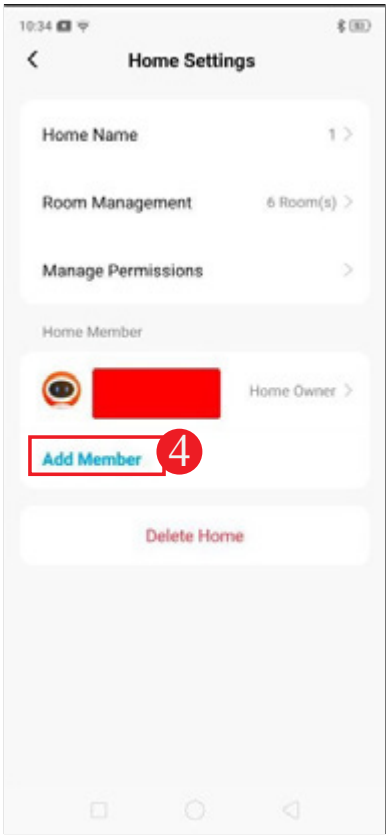


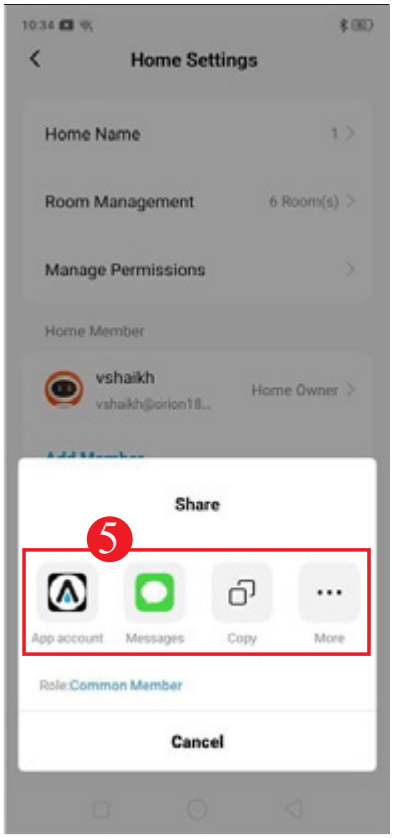


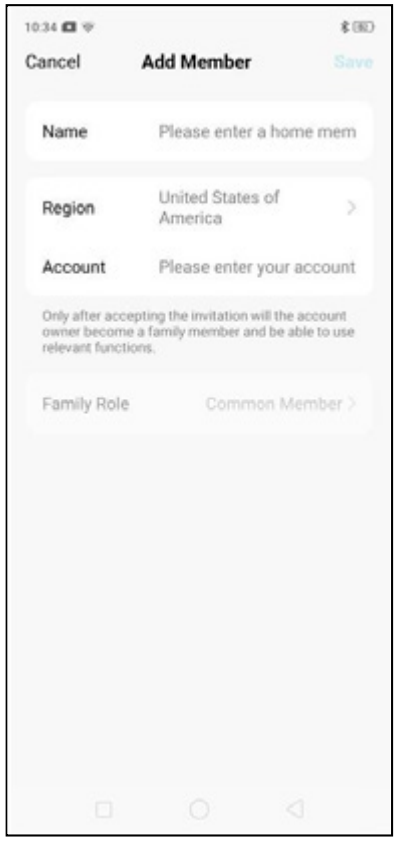

1
Welcome Home
All Devices
Valve Controller-vdevo


1
2
3
4
Home Management
2

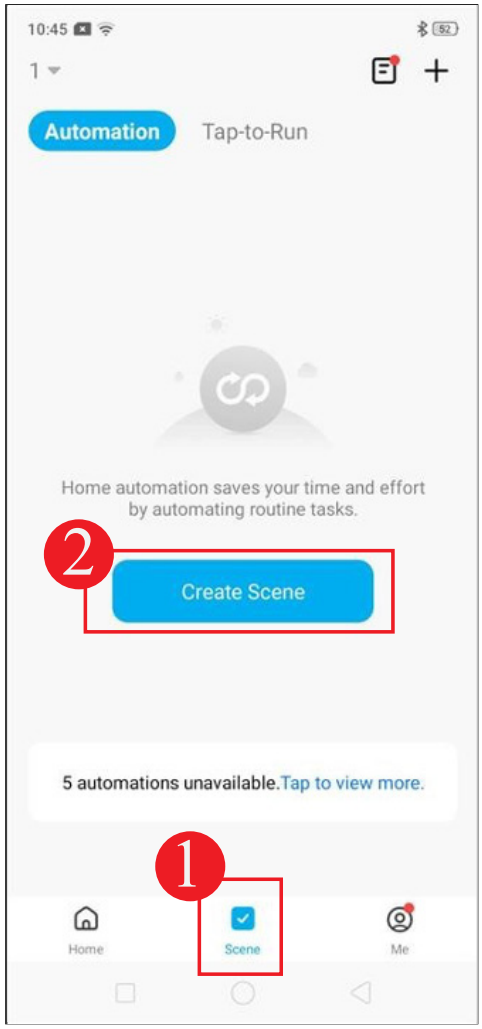

Home Management
1
2
3
4
3
Create a home
Join a home

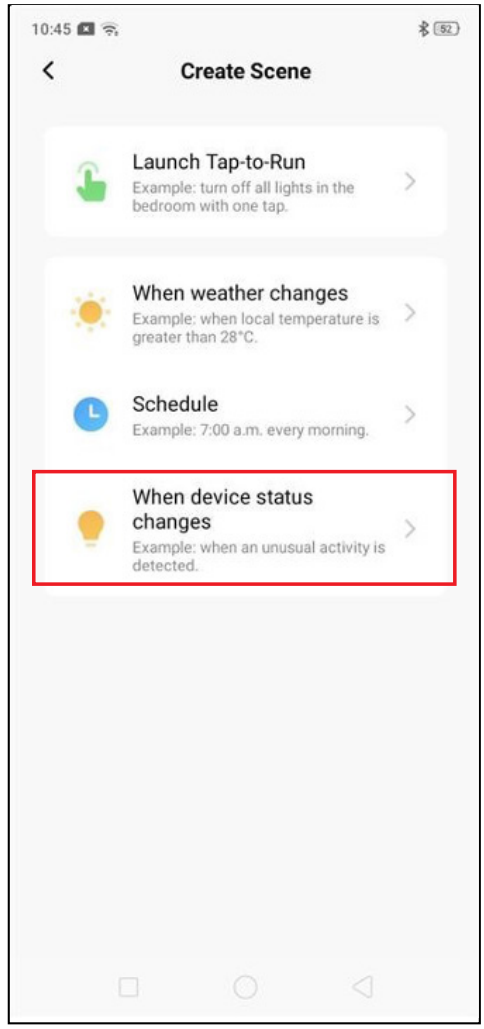

Home Settings
Home Name
Room Management
6 Room(s)
Manage Permissions
Home Member
Home Owner
Add Member
4
Delete Home


Home Settings
Home Name
Room Management
6 Room(s)
Manage Permissions
Home Member
vshaikh
Home Owner
Share
5
App account
Messages
Copy
More
Role:Common Member
Cancel


Cancel
Add Member
Save
Name
Please enter a home mem
Region
United States of America
Account
Please enter your account
Only after accepting the invitation will the account owner become a family member and be able to use relevant functions.
Family Role
Common Member

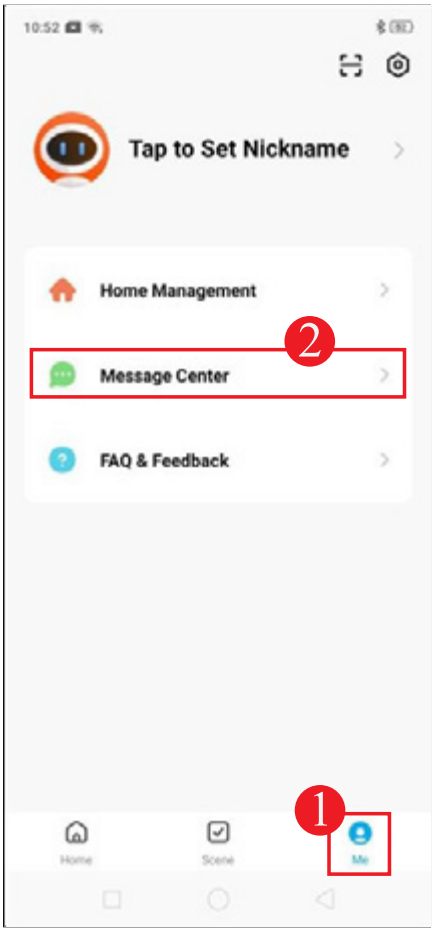
2. Create scene(product linkage)

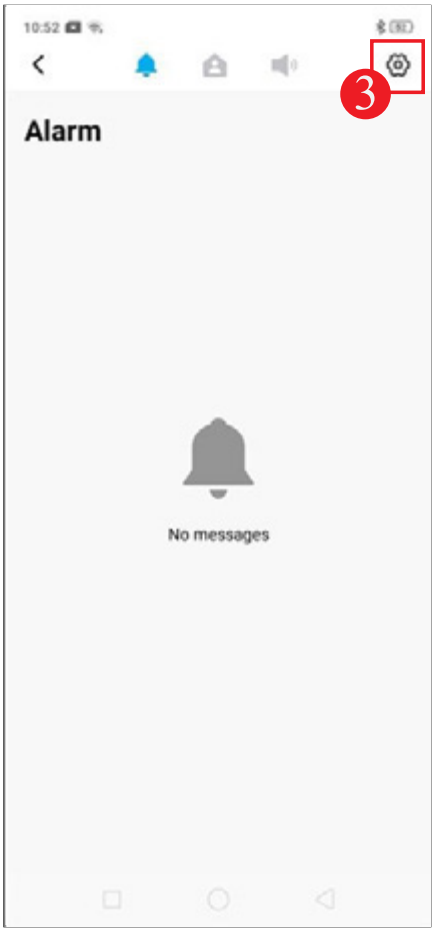


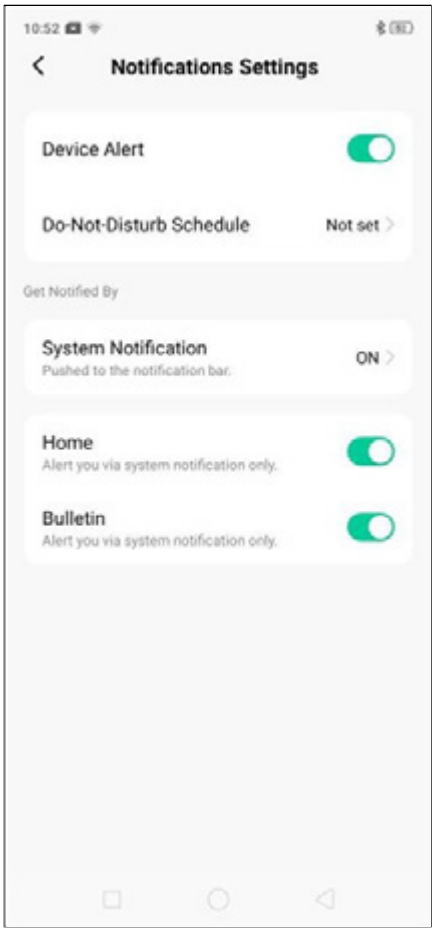


Notifications settings

All APP push; close the push here, all devices in the APP will not receive the push, but will not affect the message record;

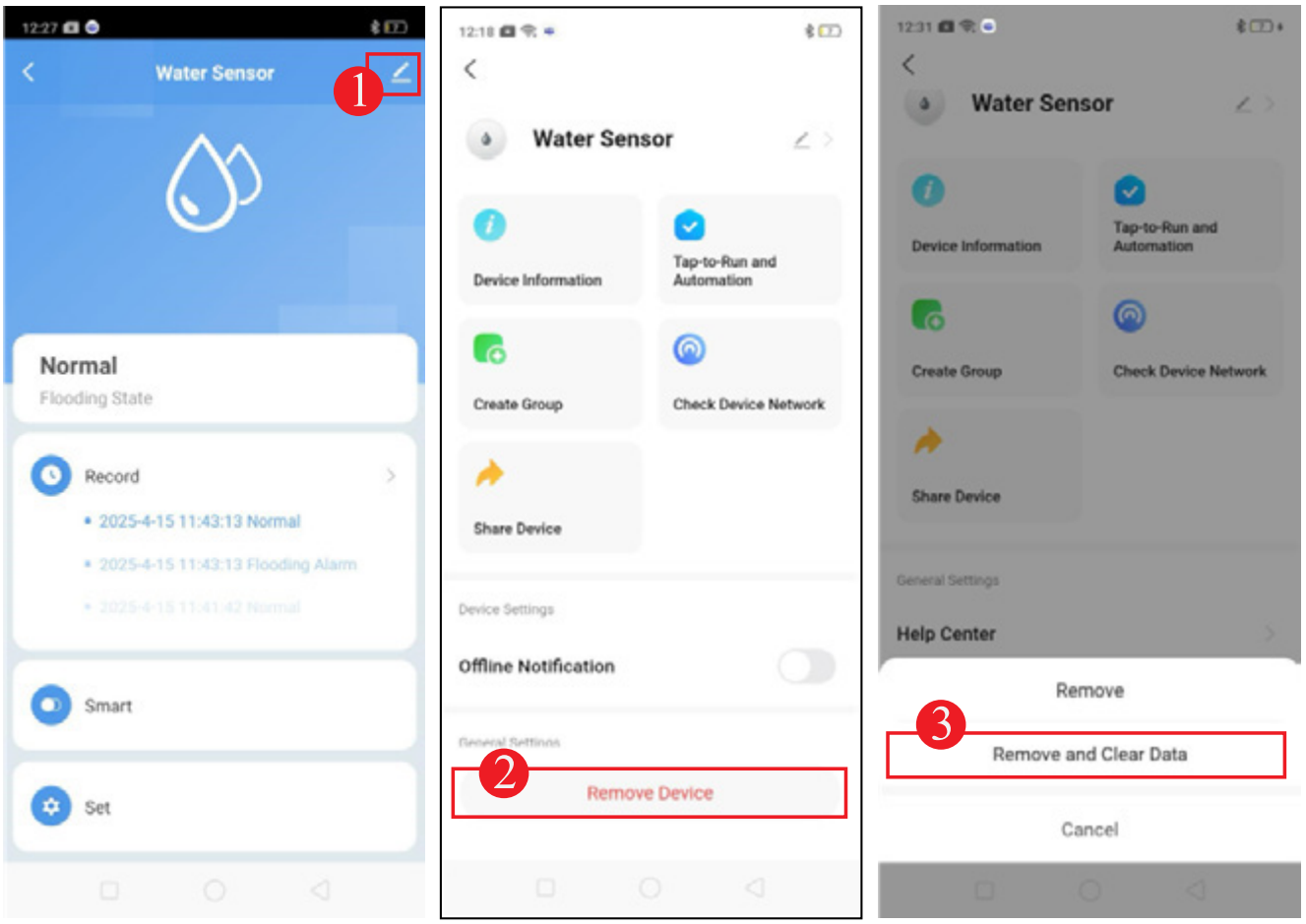






4. Restore Default

Deleting the device through the app will clear the data and restore the default values



Due to the app update, the above interface is for reference only

Safety Warning & Precautions

READ BEFORE INSTALLING THE WATER VALVE

Installation

The smart water valve needs to be connected to the household main water pipe to achieve leak monitoring and automatic water shut-off function. If installed improperly, it may cause system misjudgment or water leakage detection failure. It is recommended to contact professionals for installation. For complex scenarios such as large pipelines or reservoirs, it is also recommended to contact professionals for operation to avoid self installation errors.

Installation precautions

1. Installation environmental conditions

Avoid direct sunlight, high temperatures, or humid areas (such as areas prone to flooding) to prevent electronic components from aging or short circuiting. Stay away from dust, steam, and corrosive gases (such as kitchens and industrial workshops) to prevent equipment contamination and false alarms.

2. The direction of water flow should be consistent with the equipment arrow direction

Ensure that the direction of water flow is consistent with the arrow direction marked on the equipment casing to avoid measurement errors or damage caused by reverse installation.

3. Horizontal installation and stability

The equipment should be installed horizontally with the surface facing upwards to avoid tilting. Simultaneously select a location that is vibration free and not easily impacted by external forces to ensure long-term stability.

4. Water pipe size matching

The size of the water pipe needs to match the size of the equipment's pipeline (3/4 inch pipeline with 3/4 inch equipment, 1-inch, 1.25-inch, and 1.5-inch pipelines can all be equipped with 1-inch equipment). If the diameter difference is too large, it may affect the monitoring accuracy and flow rate. Before installation, it is necessary to confirm whether the specifications of the household pipes match.

Installation process

Step 1. Close the main water gate

Before installing or disassembling the water valve, be sure to close the main water supply valve to prevent danger caused by water spraying.

Step 2. Check valves and pipelines

Confirm that the water valve is not damaged, defective, or leaking, and check whether the sealing surface and connection parts are intact. Clean the pipeline interface and valve connection parts, remove impurities, oil stains, and rust.

Step 3. Choose appropriate tools and materials

Prepare installation tools of qualified quality and size, such as wrenches, as well as sealing gaskets, sealants, and other materials.

Step 4. Correctly connect the valve

Align the valve with the pipeline to avoid stress or distortion. Tighten the connecting components in the appropriate torque and tightening sequence to prevent leakage and loosening.

Installation requirements for external sensors

If paired with external water leakage detection sensor, attention should be paid to the installation position, and it is recommended to place them in areas where water leakage often occurs.

External sensor should be placed in areas with good wireless signal coverage to avoid shielded interference areas and ensure stable signal transmission.

User precautions for use

1. Linkage function test

The smart water valve supports linkage alarm systems, and emergency response functions (such as automatic valve closing or push alarm) need to be tested after installation.

2. Network connection risk

Devices connected via Wi-Fi may face network security threats, and it is necessary to ensure home network encryption and regularly change passwords to prevent unauthorized access.

3. Power supply precautions

The device requires continuous power support. If the home loses power, it may cause the automatic water cut-off function to fail. Suggest pairing with a backup power source (such as UPS) to cope with sudden power outages.

4. Regular firmware updates

By updating the firmware prompts through the accompanying app, keep the device firmware at the latest version to ensure optimal device operation.

5. Regular system testing

It is recommended to start manual pipeline leakage detection through the app every month (when the entire house completely stops using water) and verify whether the external leakage sensor and valve linkage response are normal.

6. Extreme environmental impact

The working environment temperature of the equipment should be within the range of 1 ° C-65 ° C, and exposure to high or low temperatures may cause component damage.

7. Regular maintenance

Avoid long-term use in strong acid, strong alkali, or highly polluted environments to shorten equipment life.

8. Regular inspection

Regularly inspect the sealing gasket, connection parts, etc. of the water valve to check for any damage, looseness, or leakage issues, and replace damaged parts in a timely manner.

9. Pay attention to the operating condition

During use, pay attention to whether there are any abnormal sounds, leaks, or other issues with the water valve. If there are any problems, promptly close the water valve, and inspect and repair it.

10. Cleaning and maintenance

Regularly clean the dirt inside the water valve to prevent impurities from accumulating and affecting performance.

11. Winter protection

In cold regions during winter, take measures to keep the water valve warm and prevent freezing and cracking; After a long period of inactivity, reactivate and conduct a sealing performance test.

12. Regularly clean the external water leakage detection sensor

It is recommended to wipe with pure water or a soft cloth, to avoid scale or impurities affecting monitoring accuracy.

Protecting Your Home, One Drop at a Time

Certified to NSF/ANSI 61-G & 372

ORION180 TECHNOLOGIES