



## BLITZWOLF BW-WS02 Smart Weather Station with Clock User Guide

[Home](#) » [BLITZWOLF](#) » **BLITZWOLF BW-WS02 Smart Weather Station with Clock User Guide** 

### Contents

- [1 BLITZWOLF BW-WS02 Smart Weather Station with Clock](#)
- [2 Introduction](#)
- [3 Specification](#)
- [4 Package list](#)
- [5 Main machine features](#)
- [6 Auxiliary machine features](#)
- [7 Installation and placement](#)
- [8 Auxiliary machine placement](#)
- [9 Auxiliary machine battery replacement](#)
- [10 Product UI description](#)
- [11 Main machine & auxiliary machine installation](#)
- [12 APP operation](#)
- [13 Share device](#)
- [14 Remove device](#)
- [15 Precaution](#)
- [16 FAQ](#)
- [17 Certification](#)
- [18 Documents / Resources](#)
- [19 Related Posts](#)



## BLITZWOLF BW-WS02 Smart Weather Station with Clock



### Introduction

This smart weather station with clock collects weather data via internet to display weather information, time, date, temperature and humidity based on its location.

Every main machine connects up to three auxiliary machines. Place the auxiliary machine indoor or outdoor, the collected data will be transmitted and displayed to the main machine indoor. You can also configure and control it via your phone, and check the weather data, indoor/outdoor temperature history data from the APP or the main machine indoor.

### Specification

- **Temperature display unit:** °C /°F
- **Humidity display unit:** RH%
- **Temperature range:** -20°C 60°C Humidity Accuracy:±0.5 °C
- **Humidity range:** 0%-99% Temperature Accuracy:±2 %RH
- **Operational temperature range:** -20°C 60°C

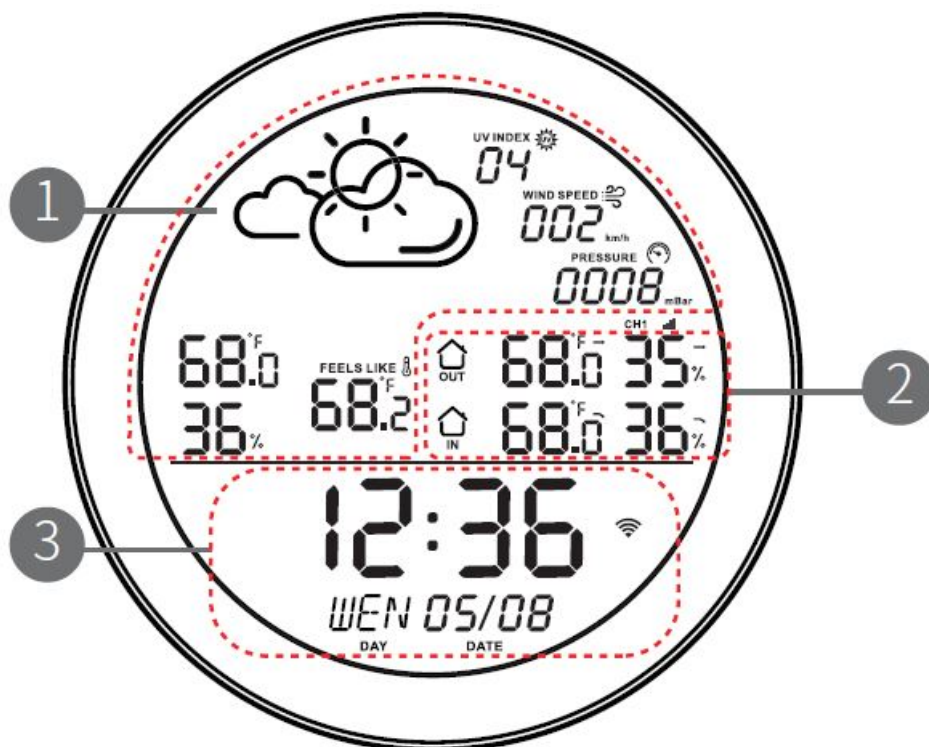
- **Output:** USB-A 5V 1A
- **Input:** Micro USB 5V 2A
- **Communication way:** Wi-Fi 2.4G +BLE module
- **Power supply of the auxiliary machine:** 3V 1000mA, CR2477 button cell
- **Standby Current:** 6uA for auxiliary machine
- **Standby Time:** 6 months for auxiliary machine
- **communication frequency for auxiliary machine** 433MHz
- **Communication distance for auxiliary machine** 80M Empty outdoor environment

## Package list

- Main machine×1
- Power cable×1
- Auxiliary machine×1 3 at most Optional
- 3M adhesive tape×1
- User guide×1
- Adapter×1 Optional

## Main machine features

### Front view



### 1. Weather display



● UV index



● Air pressure



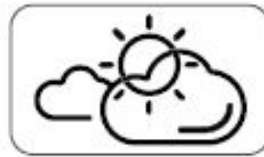
● Wind speed



● Sensible  
temperature







● Temperature  
and humidity





● Weather forecast: sunny, cloudy, rain, snow,  
thunderstorm, partly cloudy

## 2. Temperature and humidity display



- Auxiliary machine temperature and humidity display  
“CH123” Channel icon  
“” Communication signal icon  
“” Low battery warning icon  
“” Temperature and humidity trends icon  
“” Outdoor icon



- Main machine temperature and humidity display  
“” Temperature and humidity trends  
“” Indoor icon

### 3. Time display

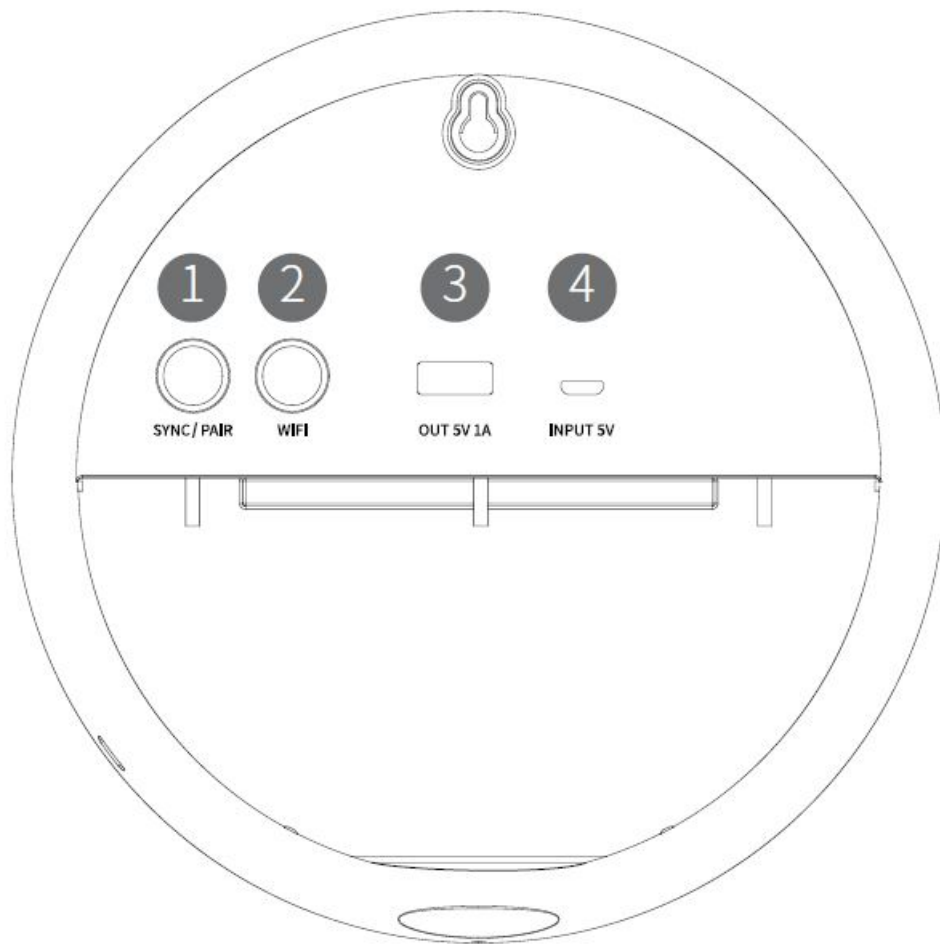


- Hour/minute, week, month/day



- Wi-Fi icon

### Back view



#### 1. **SYNC/PAIR**

- Press to synchronize the data from the auxiliary machine
- Press and hold to reset the pairing mode of the auxiliary machine

#### 2. **WIFI**

- Press and hold to reset the Wi-Fi

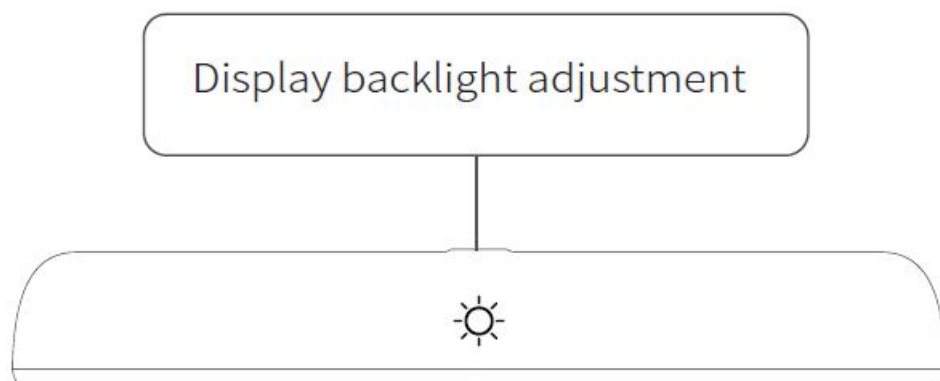
#### 3. **OUT 5V 1A**

- Output connector

#### 4. **INPUT**

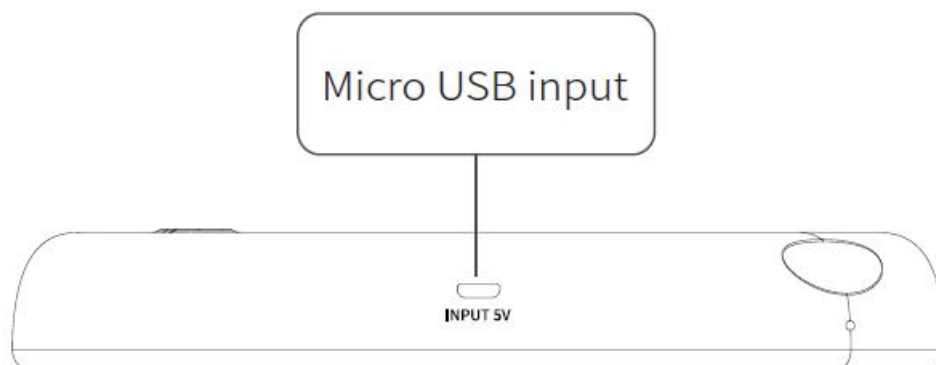
- Power input

#### **Top view**



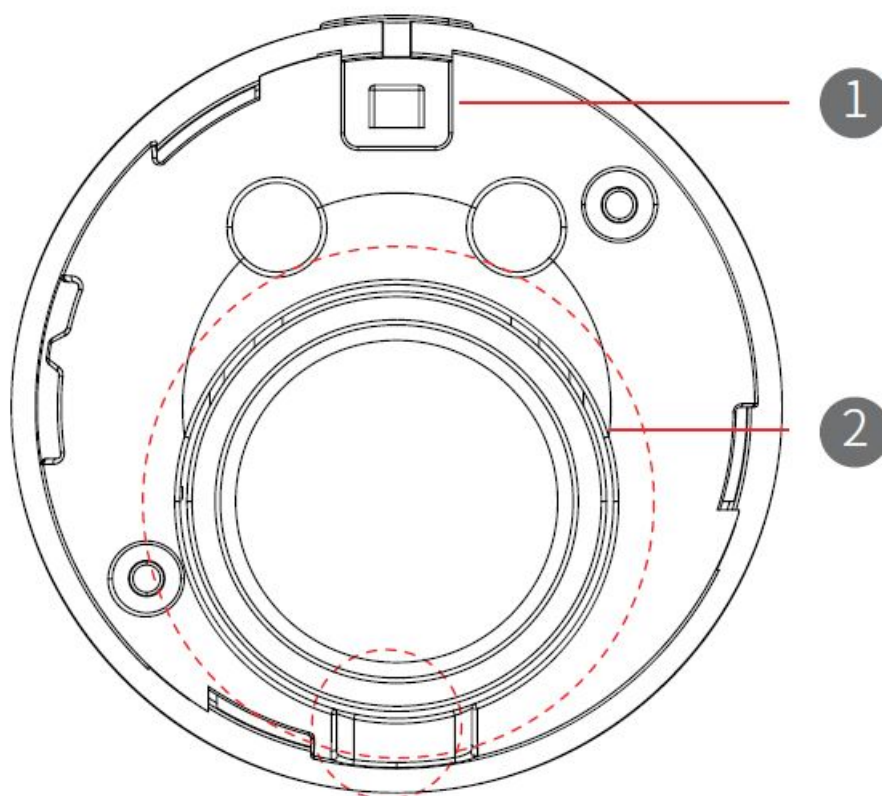
#### **Side view**





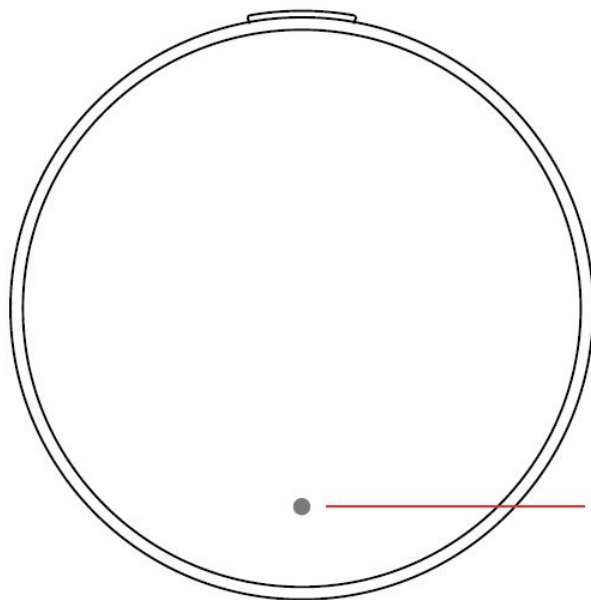
## Auxiliary machine features

### Back view (battery cover removed)



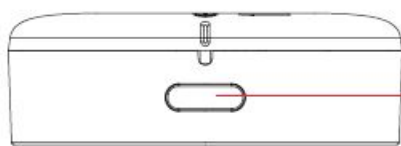
1. Hanging hole: insert a strap through the hole for portability
2. Battery compartment: for CR2477

### Front view



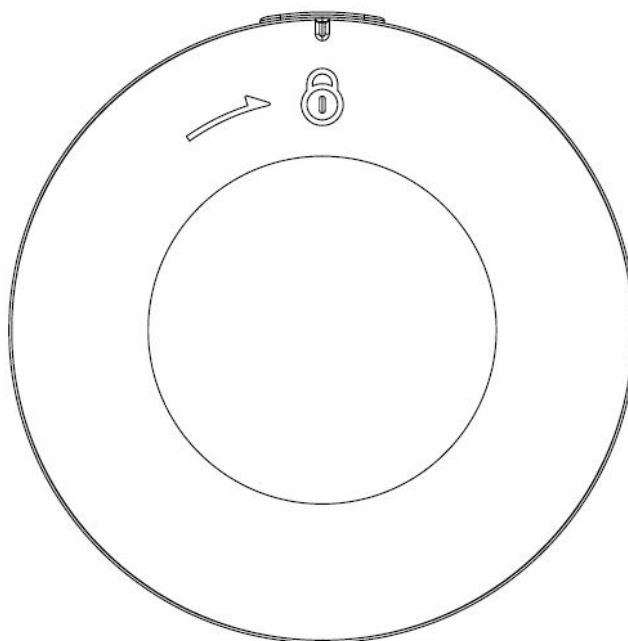
LED indicator

**Top view**



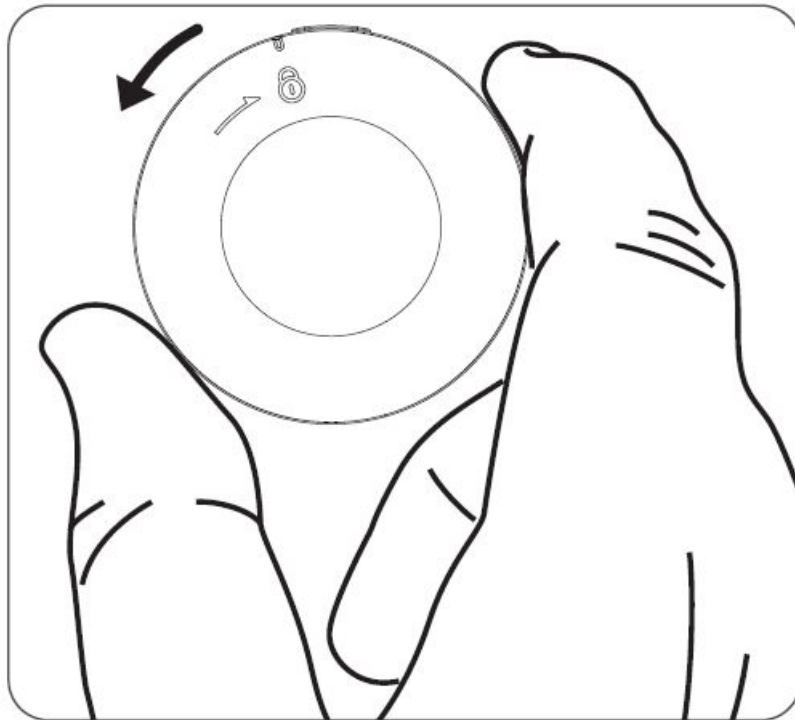
- Press to transmit data
- Press and hold to synchronize with the main machine

**Back view**

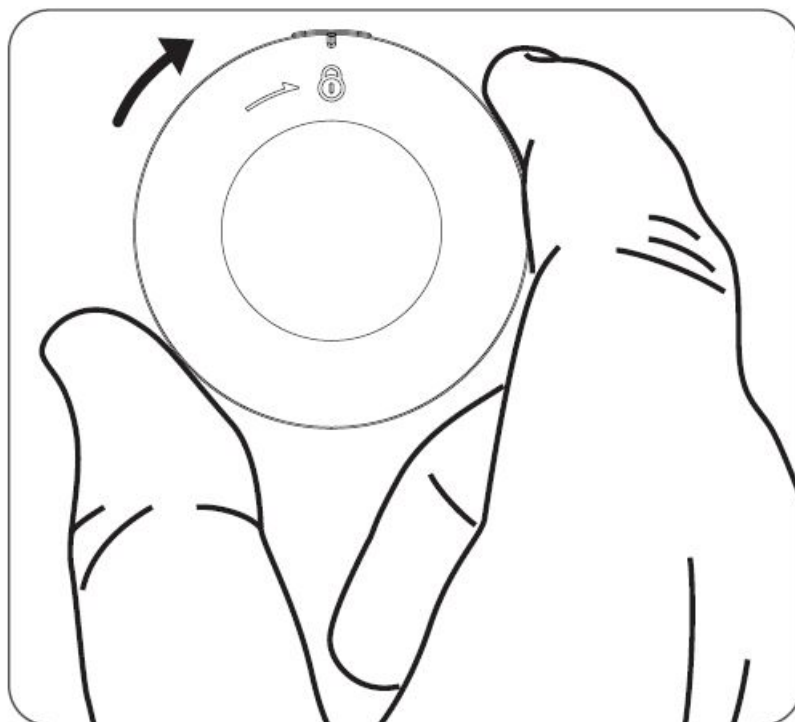


Twist the battery cover counterclockwise to unlock



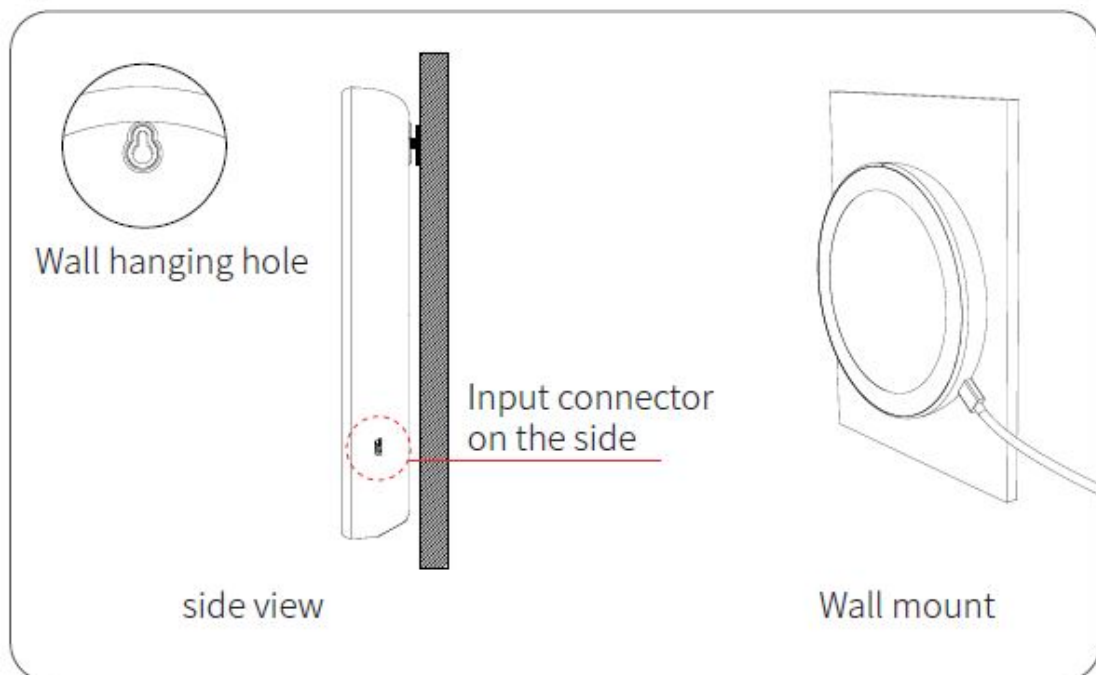
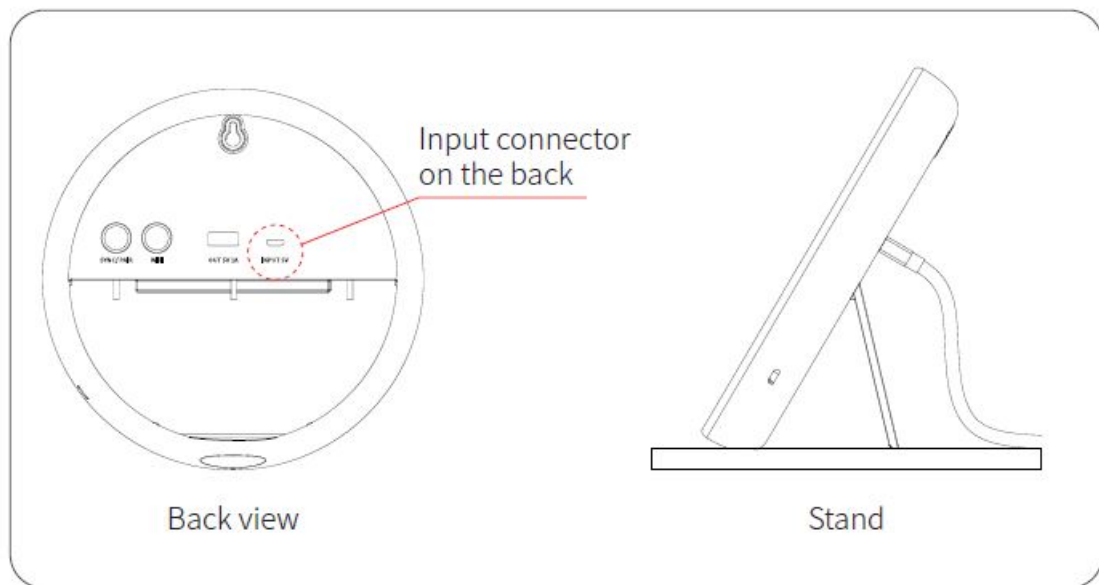


Twist the battery cover clockwise to lock



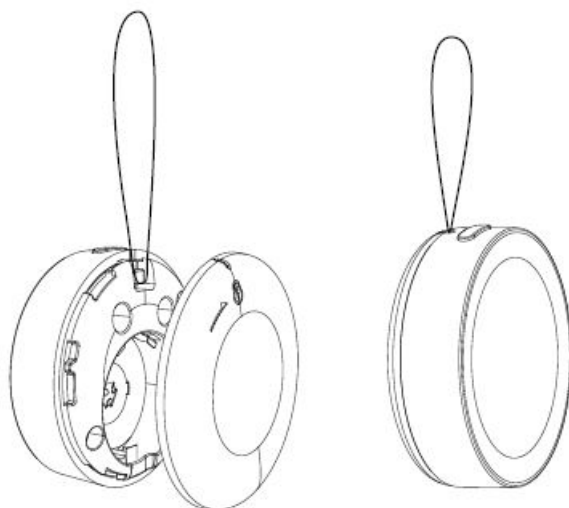
## Installation and placement

### Main machine installation

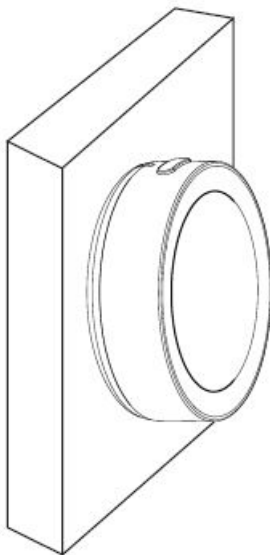


## Auxiliary machine placement

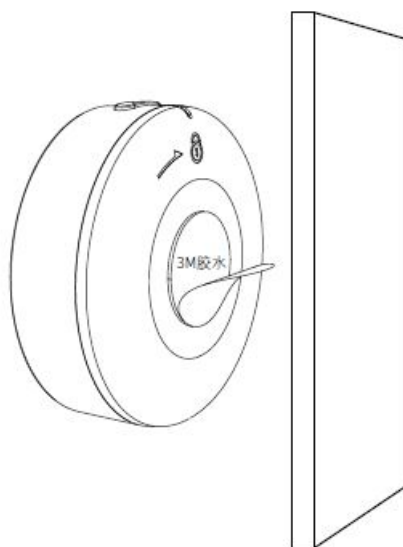
Remove the battery cover, insert a strap through the hole



Magnetically attached (to metal surfaces such as refrigerator and air conditioner)



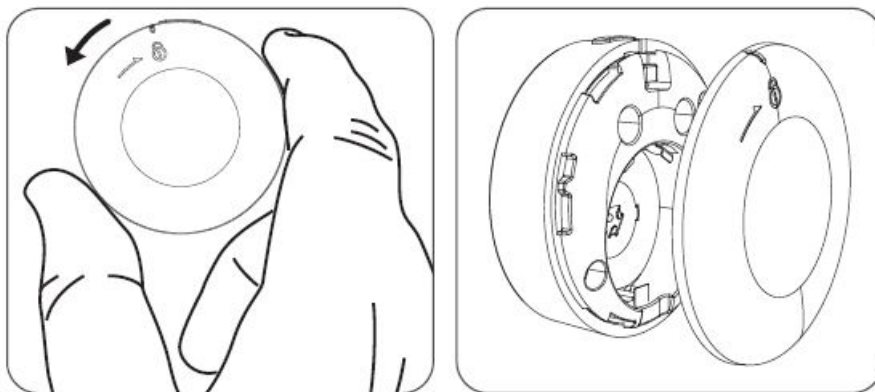
Attach to other surfaces using 3M adhesive tape



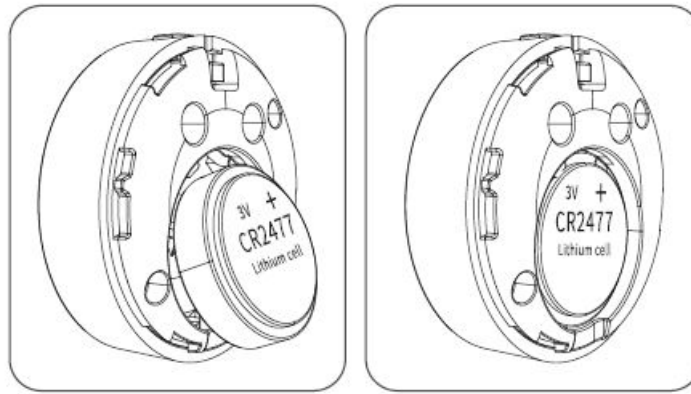
### Auxiliary machine battery replacement

\*The battery's positive pole "+" should face outward.

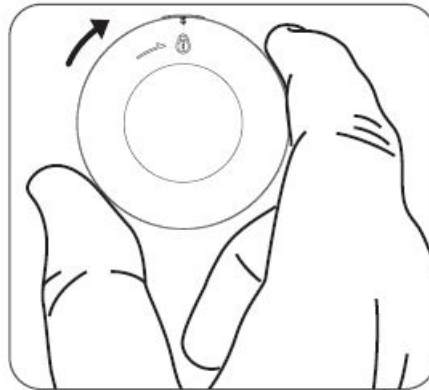
1. Twist the battery cover counterclockwise to unlock



2. Place the button battery

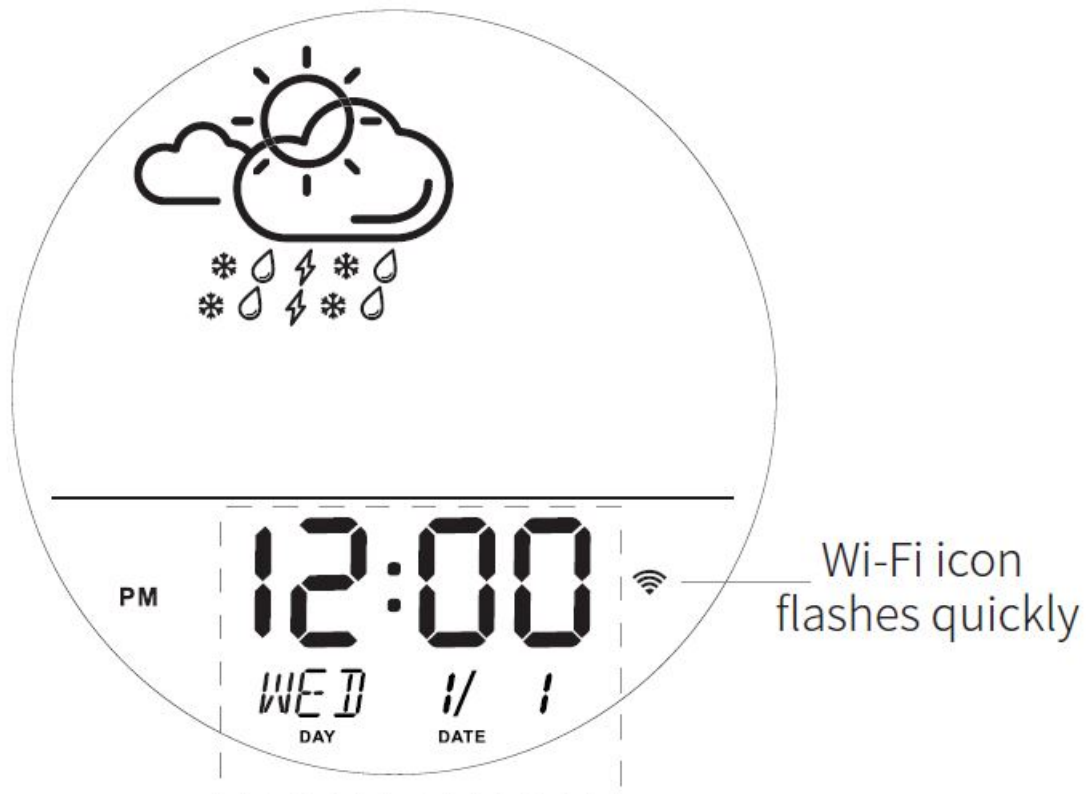


3. Twist the battery cover clockwise to lock



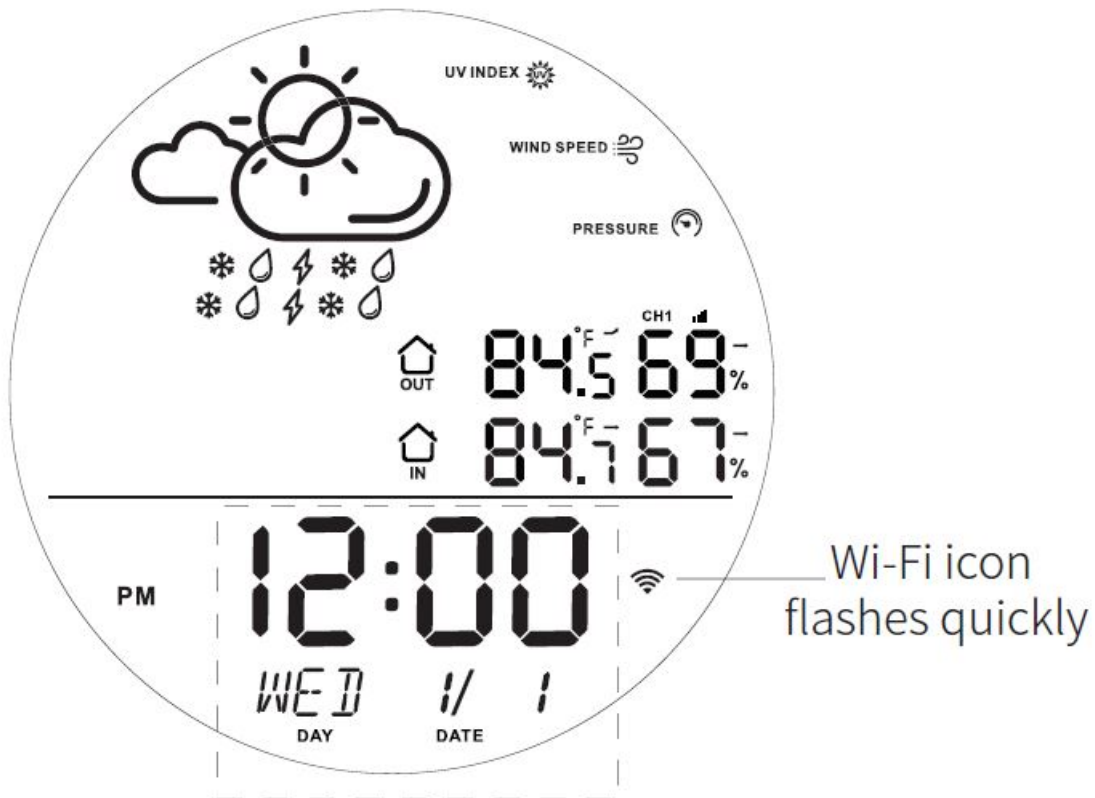
## Product UI description

1. .New device (default interface on the first power on)

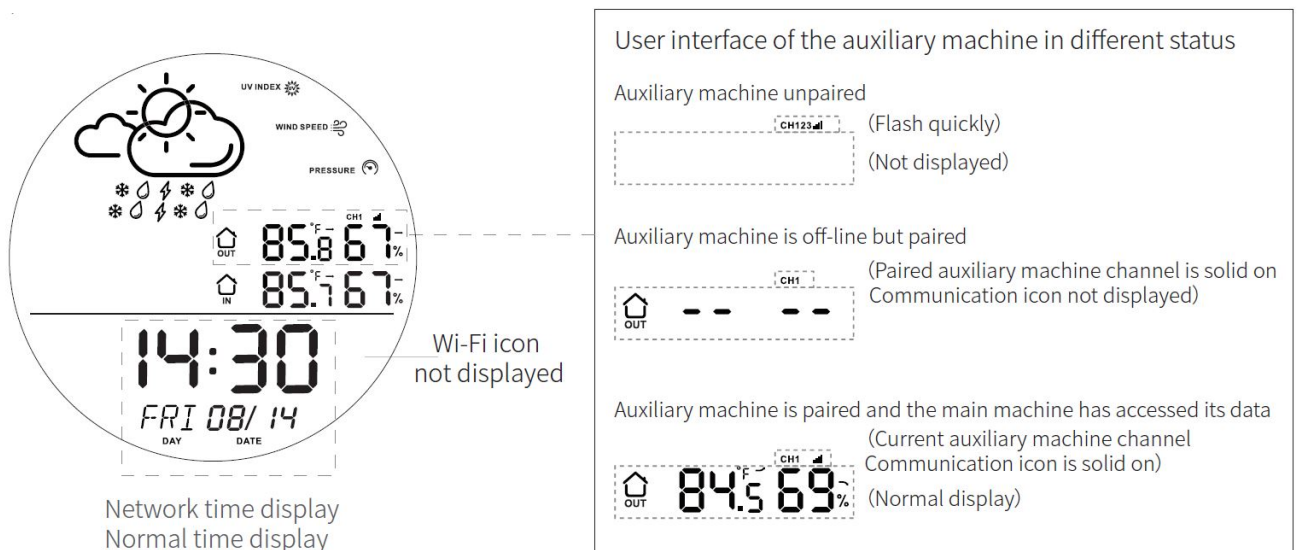


Default time display when powered on

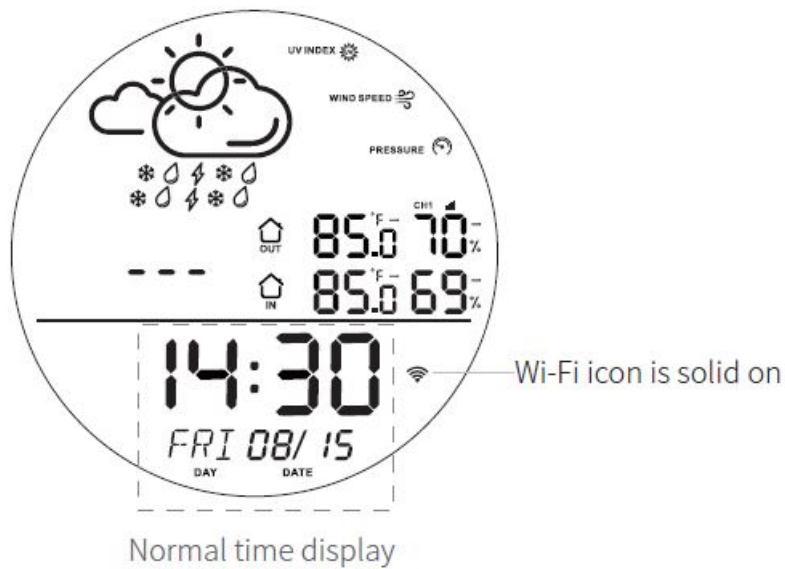
2. Router unconnected; weather data not subscribed; the local temperature and humidity of the main machine updates normally.



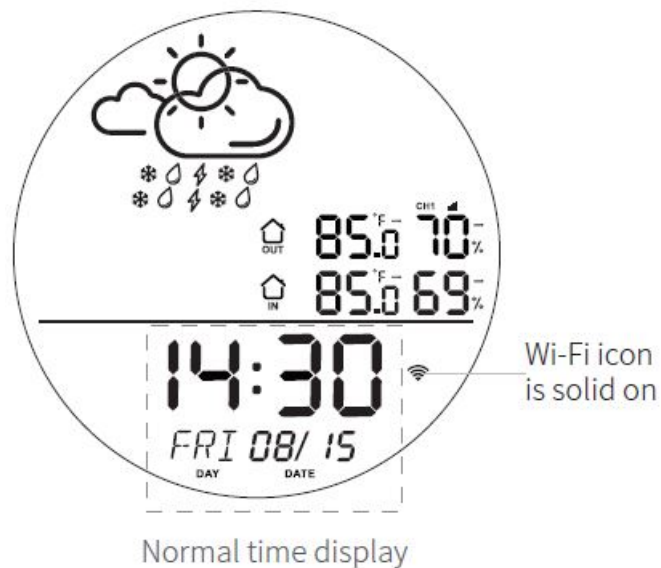
3. Router connected; network unconnected; weather data not subscribed; the local temperature and humidity of the main machine updates normally.



4. Router and network connected; failed to subscribe to the weather data (15mins ~ 2 hours); the local temperature and humidity of the main machine updates normally.

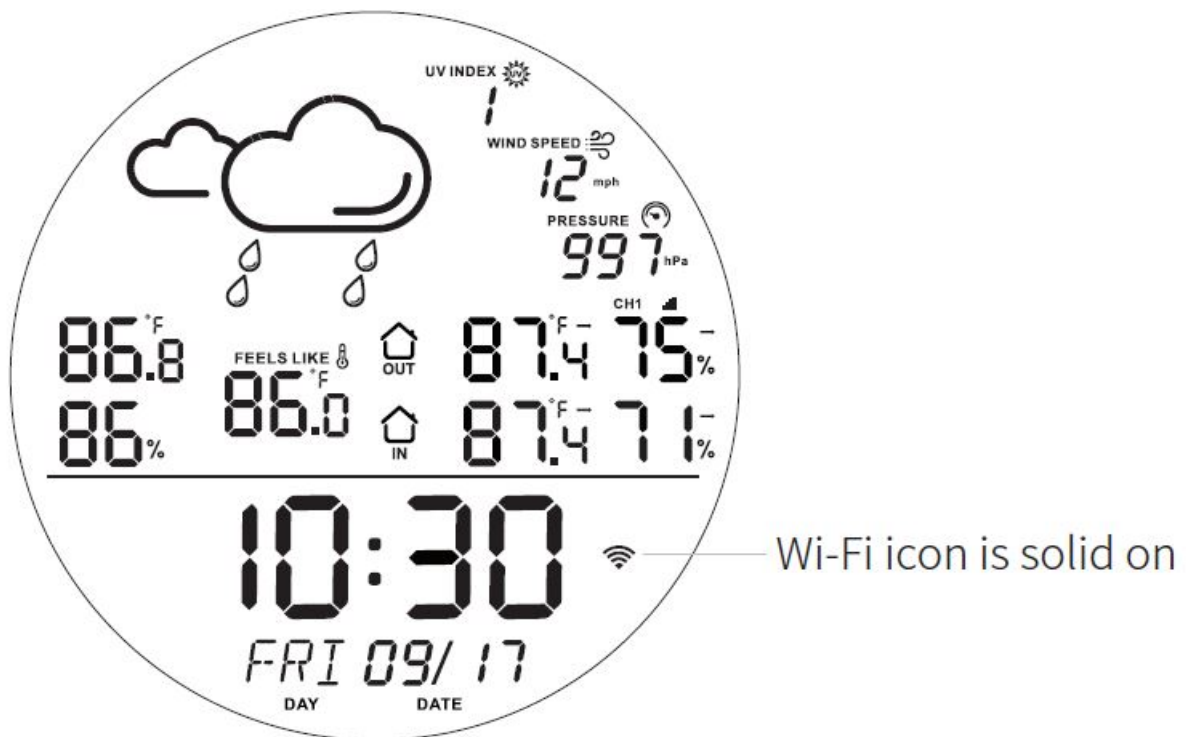


5. Router and network connected; failed to subscribe to the weather data (more than 2 hours); the local temperature and humidity of the main machine updates normally.



6. Normal device (network connected, weather data subscribed, auxiliary machine synchronized; the local temperature and humidity of the main machine updates normally.)





## Main machine & auxiliary machine installation

1. Place the main machine indoor.
2. Place the auxiliary machine indoor/outdoor. Make sure that the main machine and the auxiliary machine are within the communication distance.
3. Press the “SYNC/PAIR” button on the main machine to enter the data synchronization mode, and the buzzer will sound; press the button on the auxiliary machine, the auxiliary machine transmits data to the main machine. After the main machine receive the data, the buzzer will sound 3 times; repeat the step of pressing the button on the auxiliary machine until the main machine can't receive the data, the buzzer will no longer sound, indicating exceed the farthest installation.

## Main machine & auxiliary machine synchronization and installation

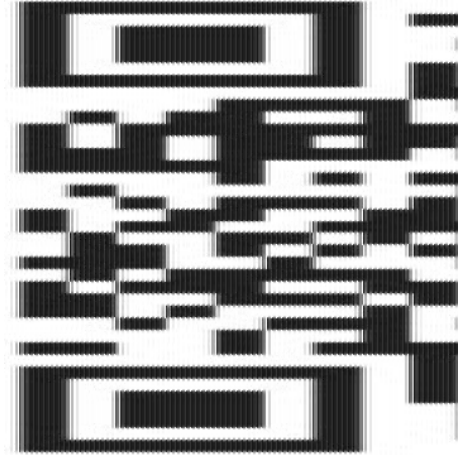
- Once the battery is installed into the main machine, the icon ” ” will flash and the main machine enters synchronization mode automatically. Press and hold the button on the auxiliary machine to synchronize with the main machine. You will hear a buzz after the successful connection. (If you have three auxiliary machines, repeat the above steps to synchronize with the other auxiliary machines' channel 2 and channel 3.)
- During synchronization, press the button on the paired auxiliary machine, the main machine will display its icons and status, and the buzzer will sound for 3 times.
- During operation mode, press the “SYNC/PAIR” button on the main machine to synchronize the data, press/press and hold the button on the paired auxiliary machine, the display on the main machine will switch to corresponding auxiliary machine channel, and the buzzer will sound for 3 times; if you have additional auxiliary machines that have not been paired, press and hold the button on the auxiliary machine to synchronize it with the unpaired channel and synchronize the data.
- Press and hold the “SYNC/PAIR” button to clear the data on all the auxiliary machine, and the buzzer will sound for 3 times.

## APP operation

### APP Download

Search “Smart Life” from APP store or scan the QR code to download and install the APP.

Please tap “register” to register for an account for the first use; tap “log in” if you already have an account.

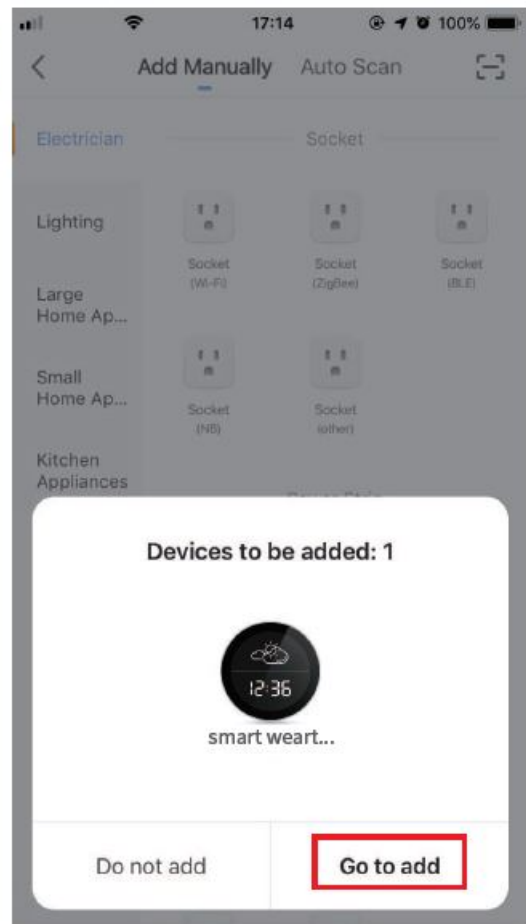
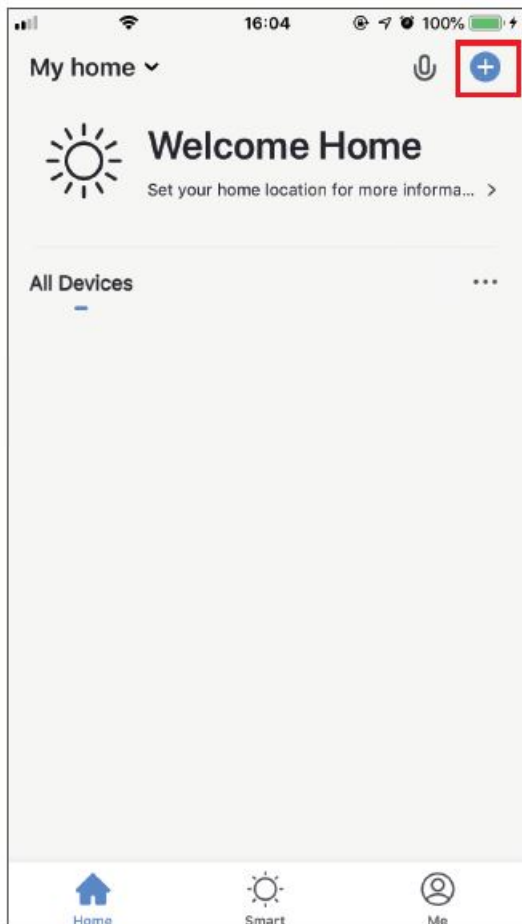


### Bind device

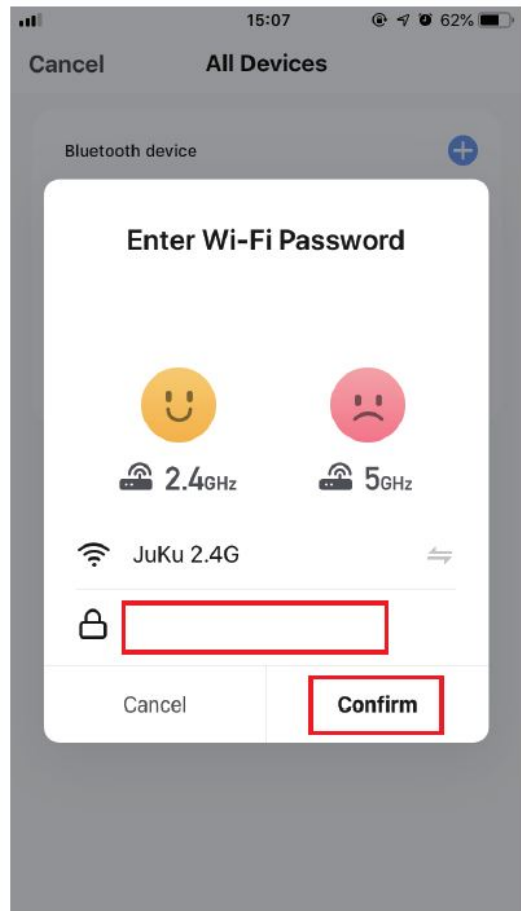
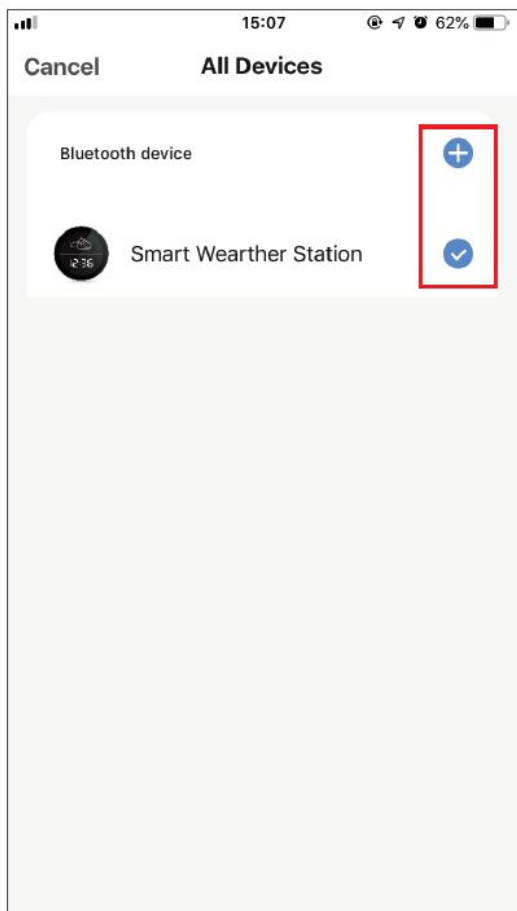
Before binding the device, turn on your phone's location, Wi-Fi 2.4G , and Bluetooth function. Two methods to bind the device auto scan or add manually.

Take “Auto Scan” as an example

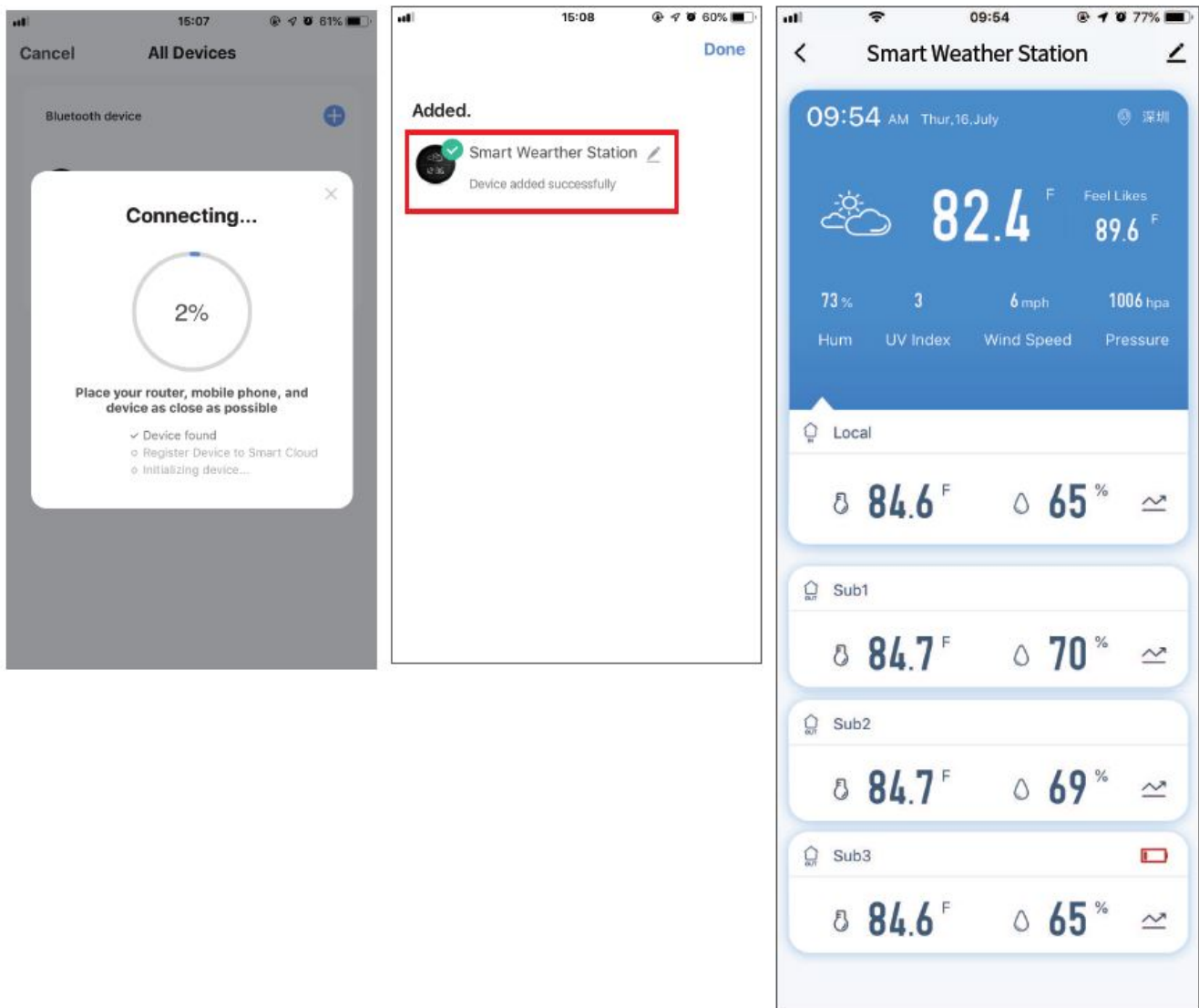
1. Open the APP and enter “My home” page, tap “ ” .
2. Press the “Wi-Fi” button on the device for 3s until you hear the ticks and the icon “ ” on the screen flashes to enter the network configuration mode.
3. Available devices will be found, tap “Go to add”.



4. Select the “Smart weather station”device, enter your Wi-Fi password, and then tap “Confirm”.



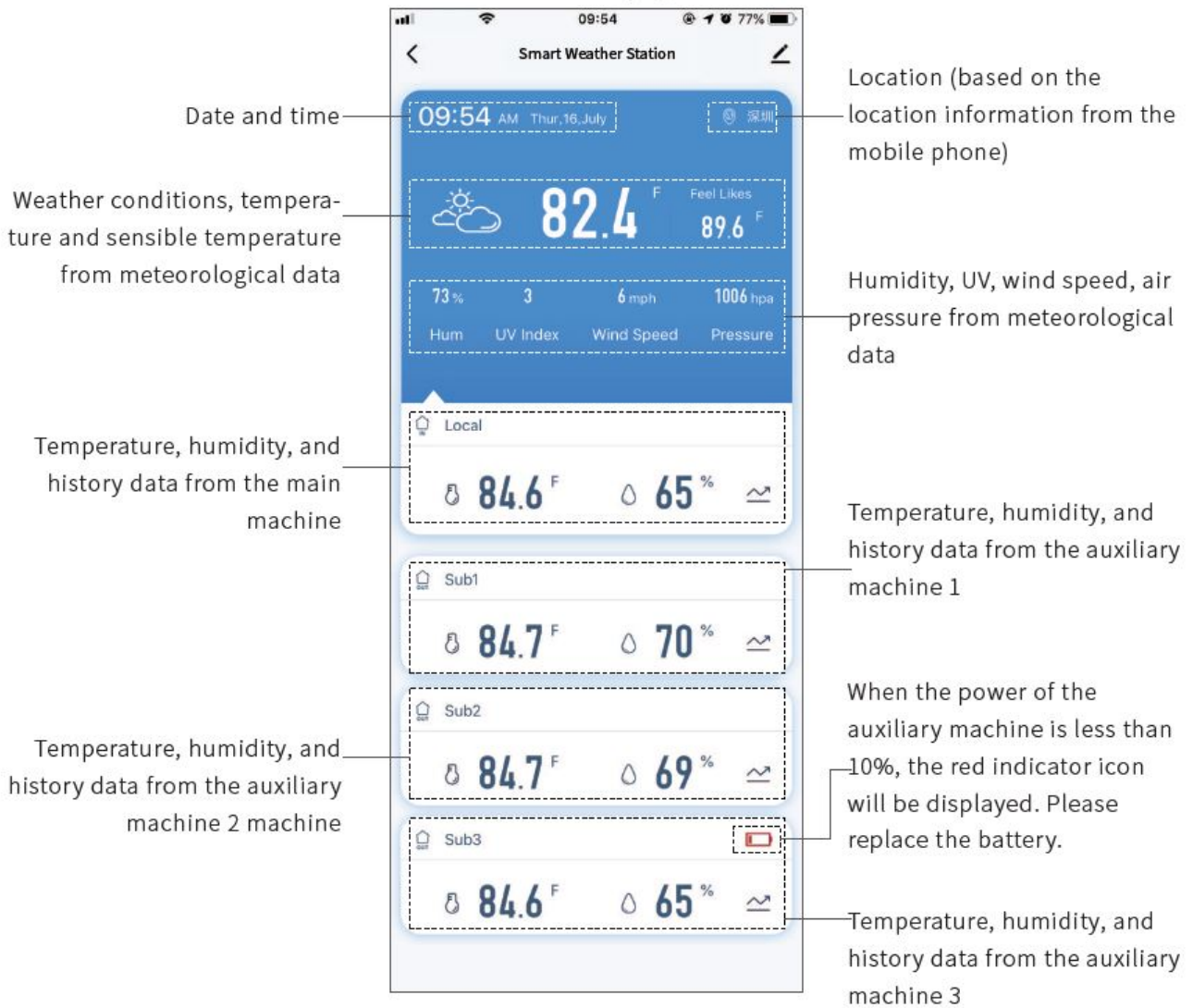
5. The connecting page is displayed. After the network is successfully connected, the device added successfully page will be displayed.
6. After the connection, tap “Done” to enter the main page.



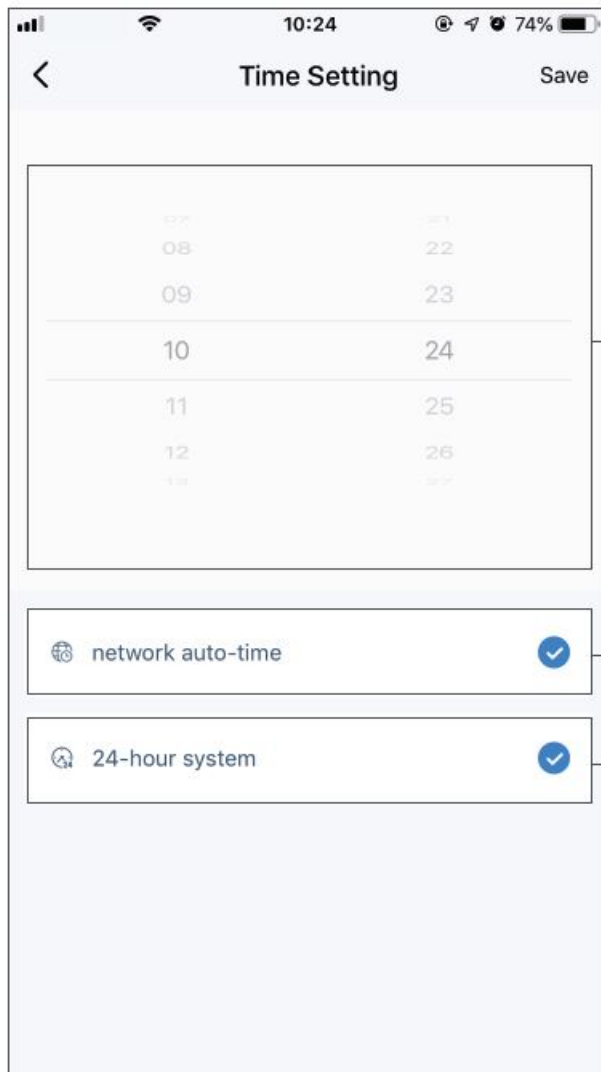
## APP control panel introduction

1. Open the APP and enter "My home" page to check the connected device. Tap "Smart weather

## The main page



2. Tap the "Time and date" area to enter the "Time Setting" page. You can customize the settings as desired and then tap "save".



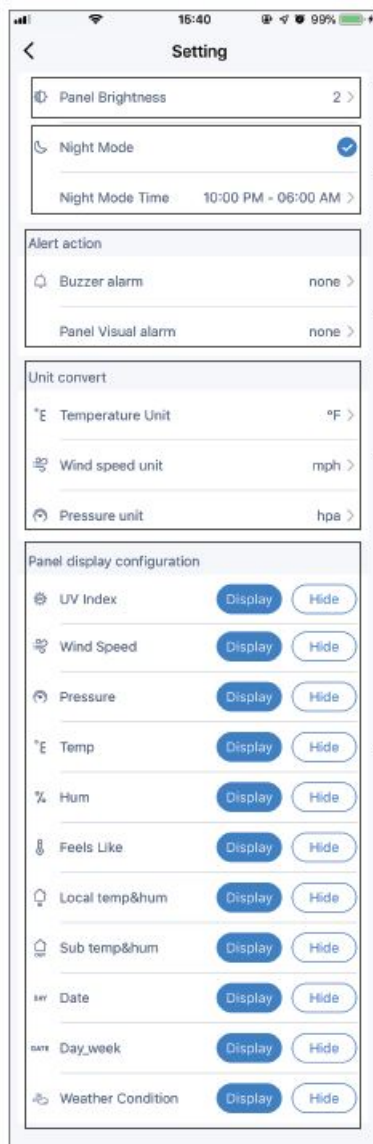
Scroll up or down to set the time

When checked, the main machine displays the current network time.  
When unchecked, you can Scroll up or down to set the time.

When checked, the main machine displays in 24h mode.  
When unchecked, the main machine displays in 12h mode. AM: before noon, PM: after noon

3. Tap the "Weather condition" area to enter the "Setting" page. You can customize the settings as desired and then tap "save".





Tap to set the screen backlight of the main machine.

When checked, you can set a custom period of night mode.

The main machine will activate the night mode within the period and the screen backlight will change to the set brightness.

The screen backlight will change to the brightest when the time was up.

Alert action:

Buzzer: none, buzz once, continuous buzz

Panel display: no flash, flash once, continuous flash

Temperature unit :°C or °F

Wind speed unit: mph or km/h

Air pressure unit: hpa or mbar

Main machine display configuration

Tap "Display" to display the icon

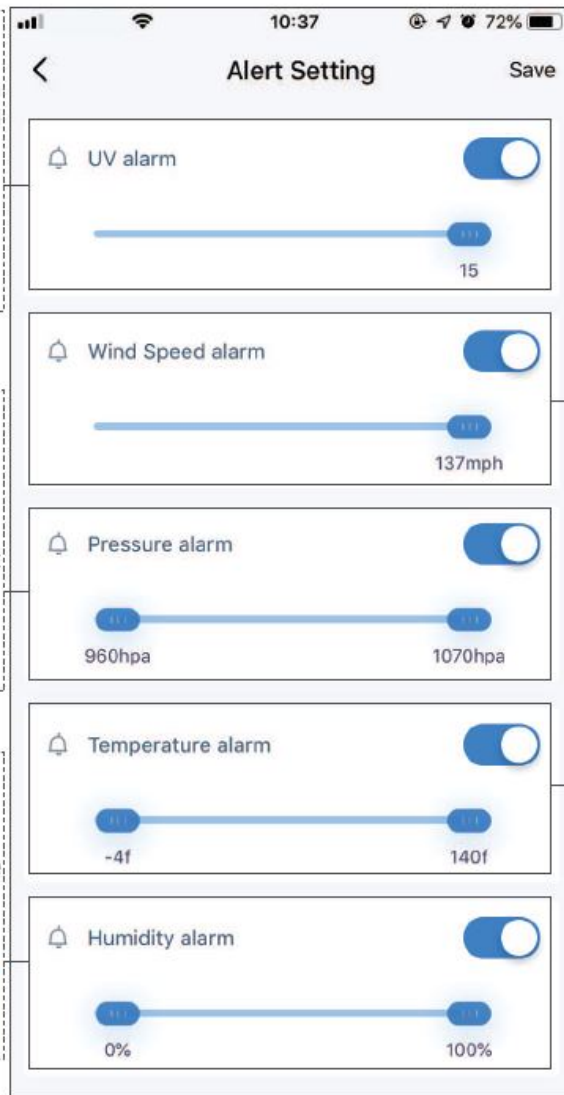
Tap "Hide" to hide the icon

4. Tap the “Hum, UV index, Wind Speed, Pressure” area to enter the “Alert Setting” page. You can customize the settings as desired and then tap “save”.

If the UV Index reached its limit setting, the UV display area will turn red and the main machine will send alert based on your alert action setting. (see “alert action” for detail)

If the air pressure reached its limit setting, the air pressure display area will turn red and the main machine will send alert based on your alert action setting. (see “alert action” for detail)

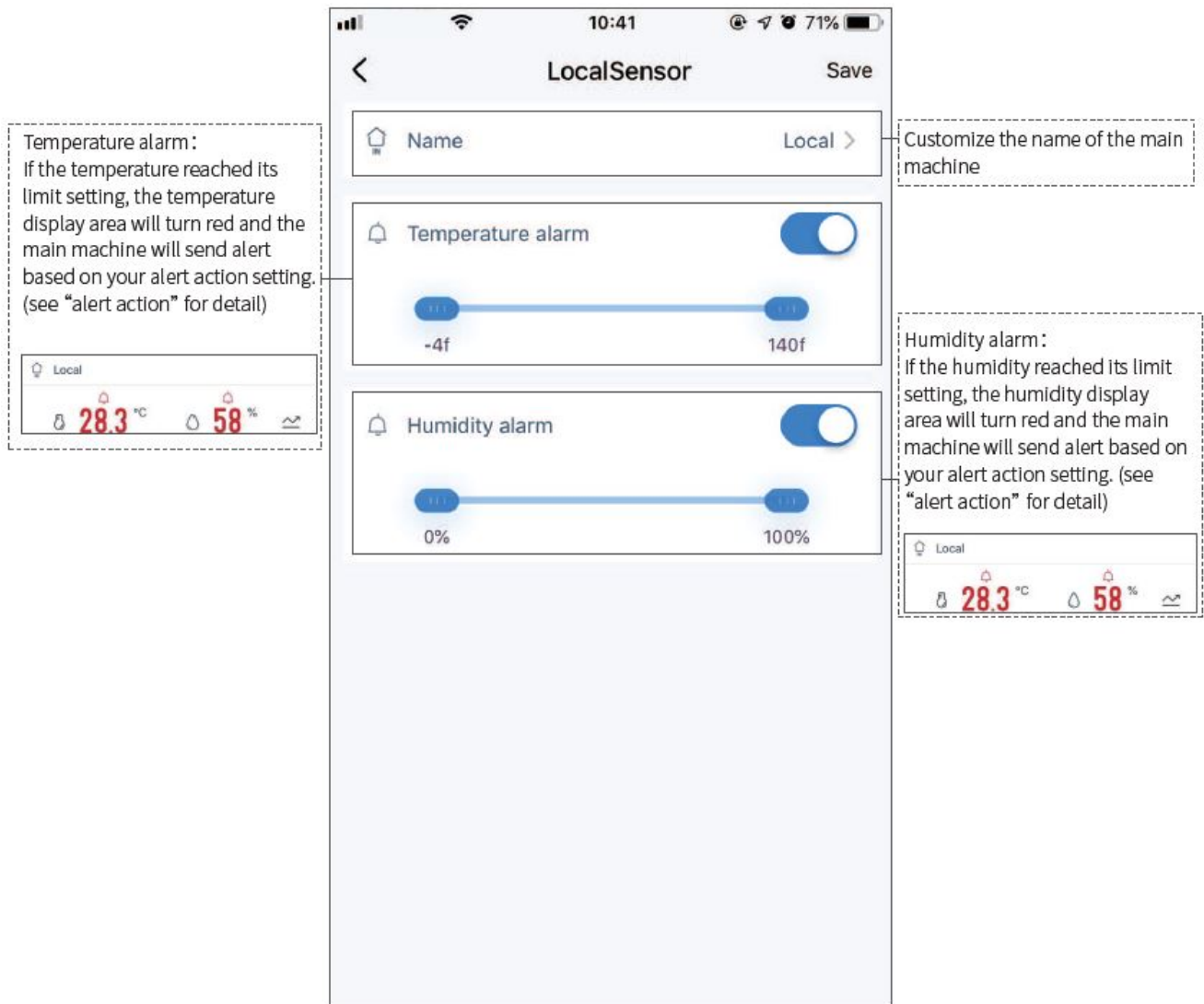
If the humidity reached its limit setting, the humidity display area will turn red and the main machine will send alert based on your alert action setting. (see “alert action” for detail)



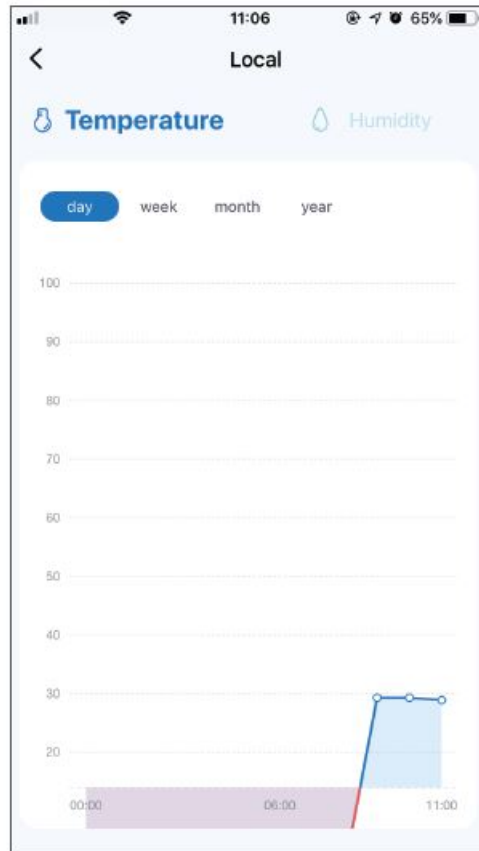
If the wind speed reached its limit setting, the wind speed display area will turn red and the main machine will send alert based on your alert action setting. (see “alert action” for detail)

If the temperature reached its limit setting, the temperature display area will turn red and the main machine will send alert based on your alert action setting. (see “alert action” for detail)

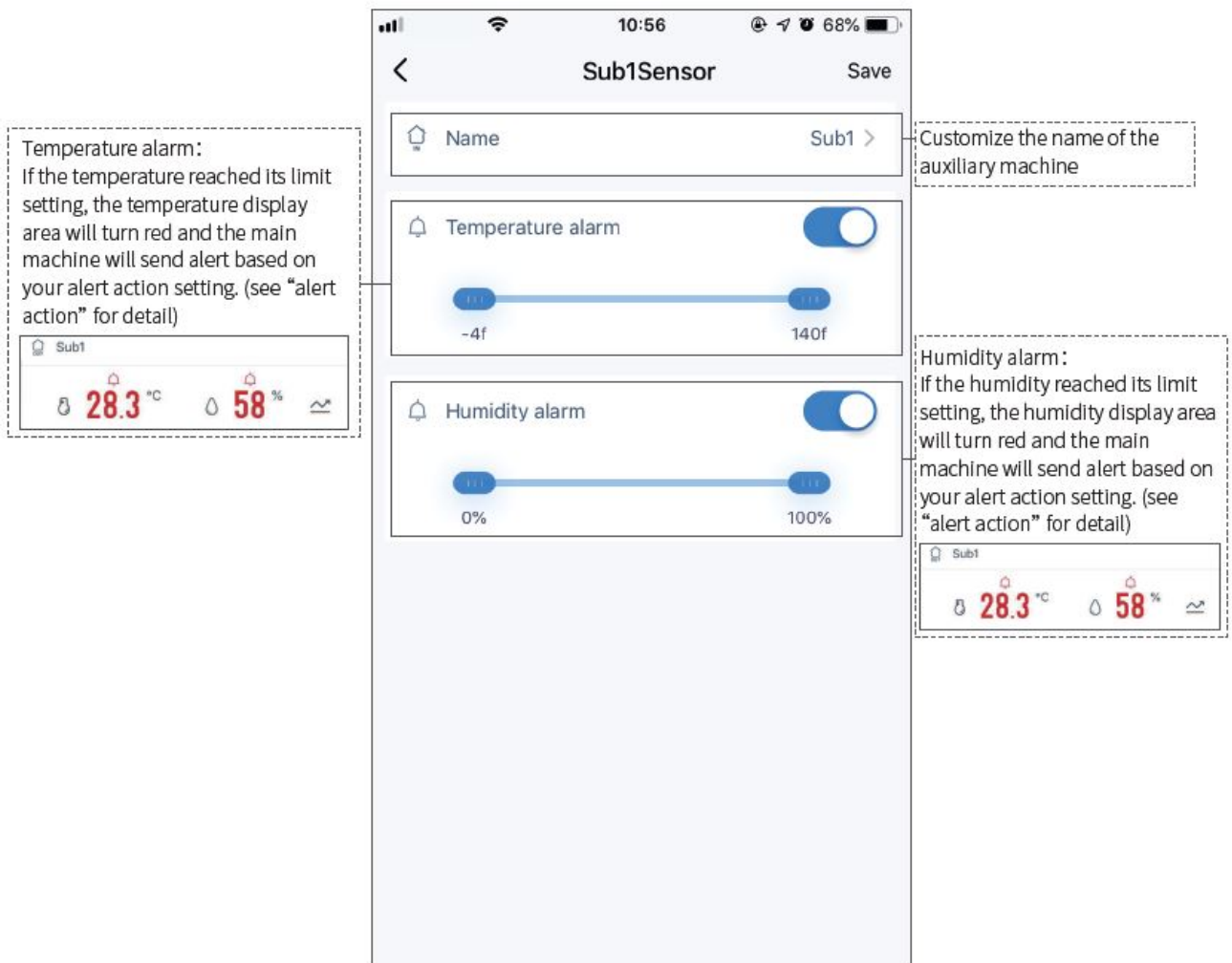
5. Tap the Local “temperature and humidity” area to enter the “Local Sensor” page. You can customize the settings as desired and then tap “save”.



Tap the " " icon to check the maximum or minimum temperature and humidity history data from the main machine. Day, week, month, and year)

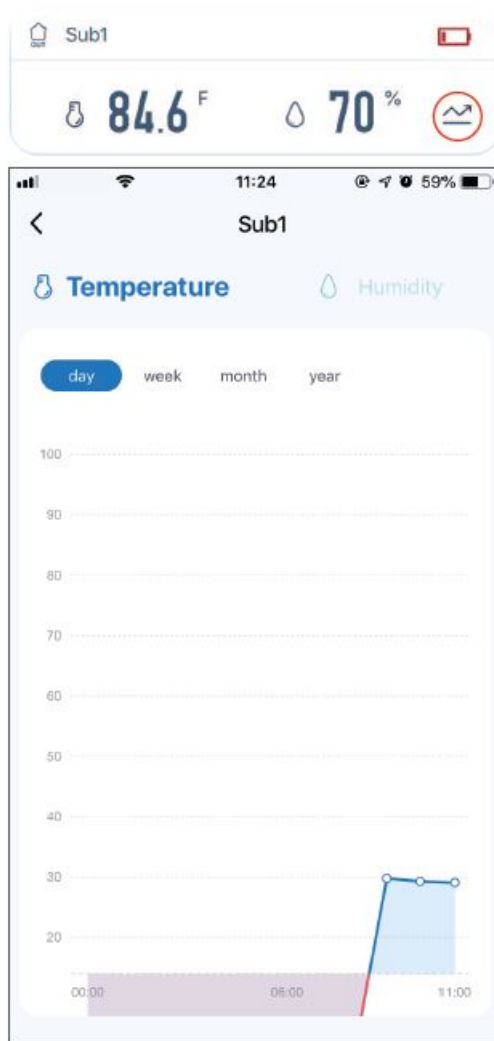


6. Tap the “Sub1 temperature and humidity” area to enter the “Sub1Sensor” page. You can customize the settings as desired and then tap “save”.(The same settings for auxiliary machine 1 2 and 3.)

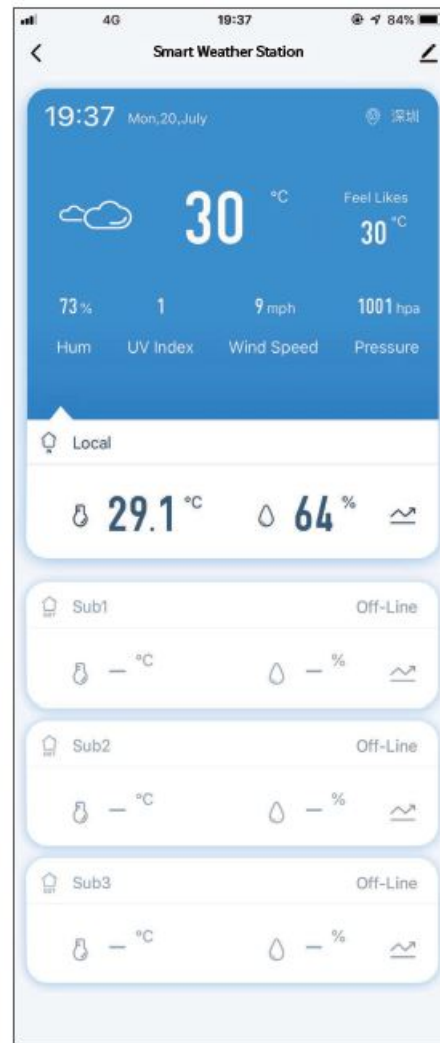


Tap the " " icon to check the maximum or minimum temperature and humidity history data from the auxiliary machine. Day, week, month, and year).(Figure 1)

7. When the auxiliary machine is offline, the display area will be grey.(Figure 2)



(Figure 1)

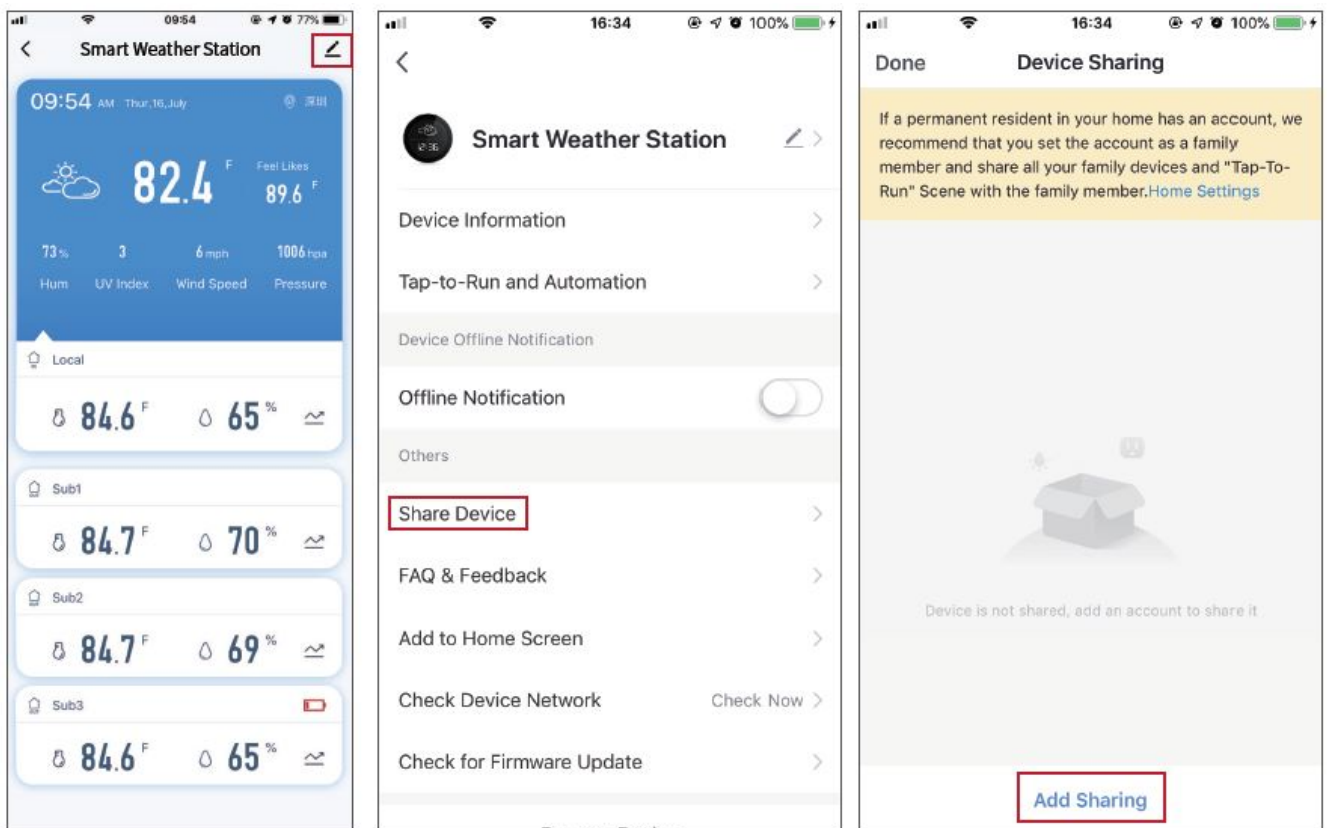


(Figure 2)

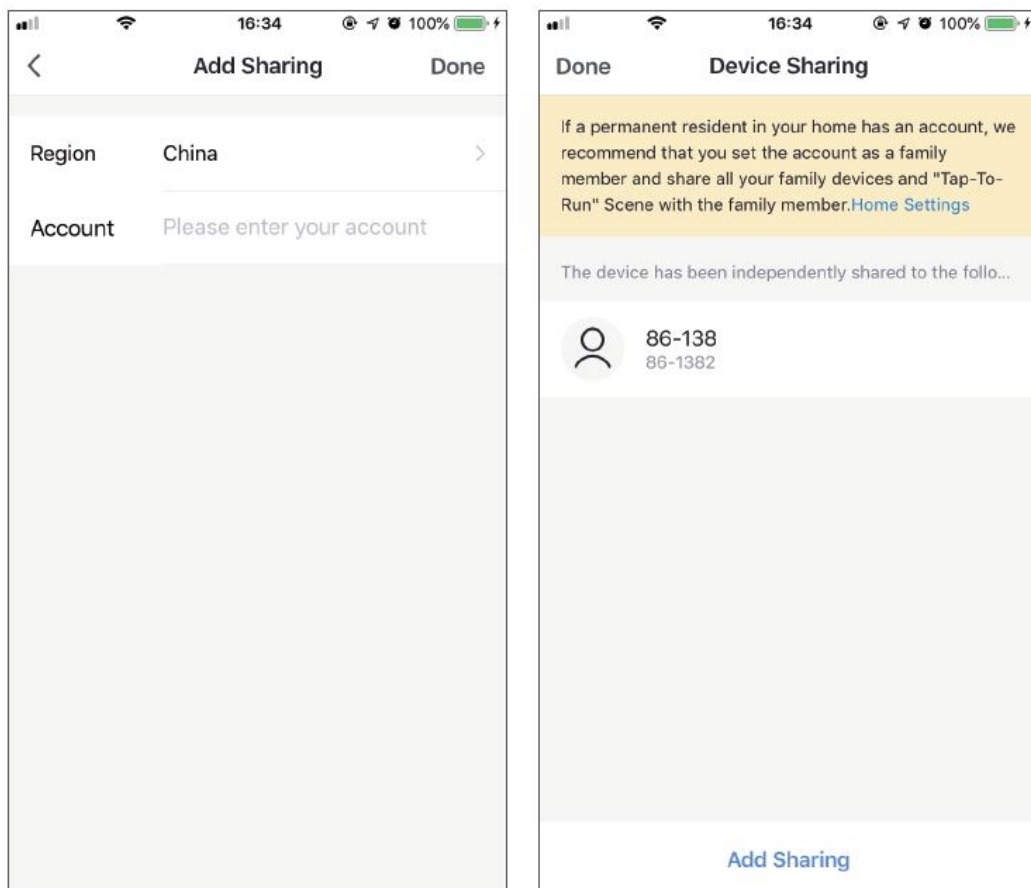
## Share device

1. Go to the main page, tap the top right corner to enter the edit page; tap “share device”, and then tap “add sharing”.



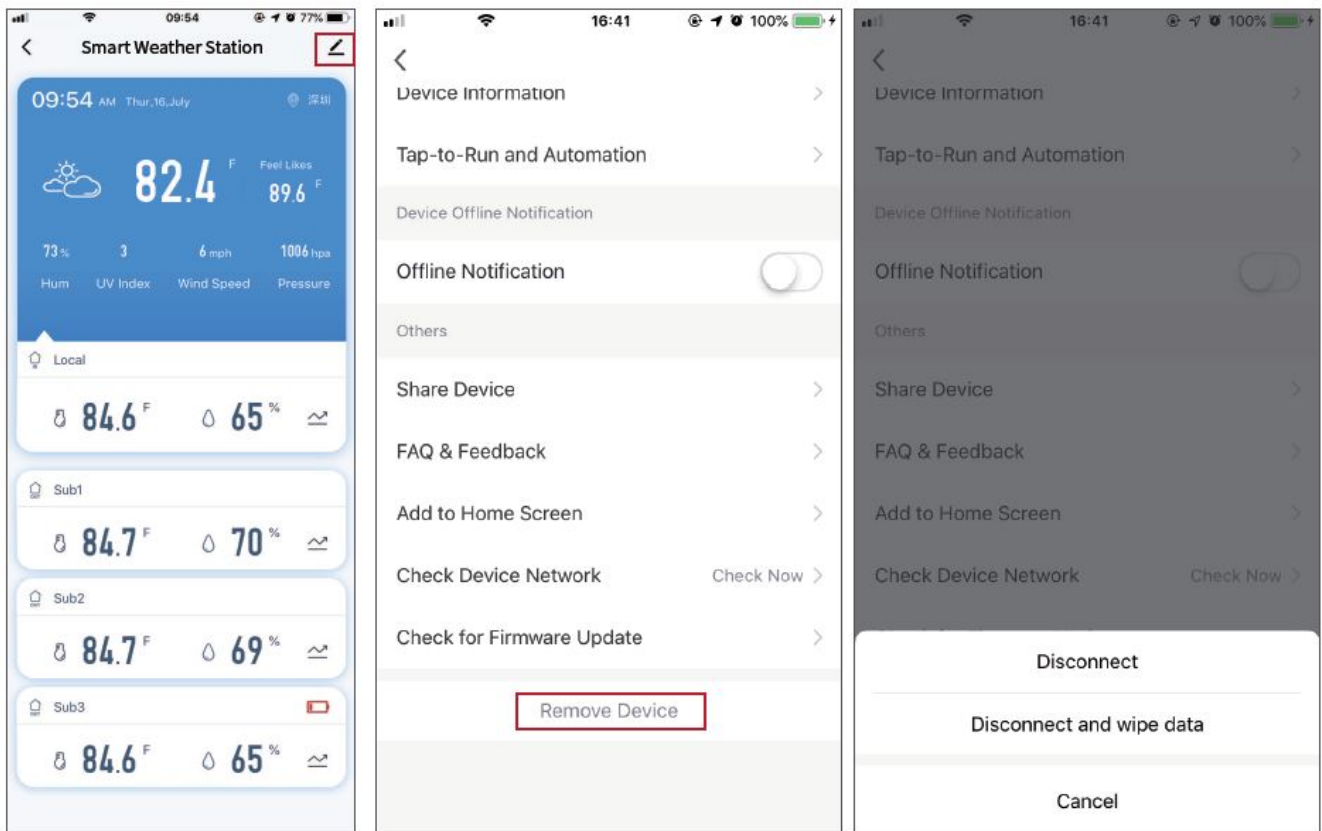


2. Enter the registered phone number, tap “Done” to share the device data.



## Remove device

1. Go to the main page, tap the top right corner to enter the edit page;
2. Tap “Remove Device” to “Disconnect” or “Disconnect and wipe data”.



## Precaution

- Please take good care of the button battery to avoid accidental ingestion by children. For adult use only.
- The temperature of the product shall not exceed 60°C and shall not be lower than -20°C. Humidity must not be more than 99%, and not be less than 0%.
- This product is not fireproof, do not throw it into the fire or place it near any fire source.
- This product is not waterproof, do not immerse it into water in case of short circuit.
- Please remove the battery insulation sheet before using.

## FAQ

### 1. Fail to connect to the Wi-Fi

1. Weak Wi-Fi signal might impede the connection.
2. Confirm if the Wi-Fi is 2.4G network. (5G is not allowed).
3. Press and hold the Wi-Fi reset button for 5s to reenter the configuration mode.

### 2. Fail to collect the weather data via Wi-Fi

Re-power the main machine. After the Wi-Fi is successfully connected, the machine will collect the weather data automatically; if the Wi-Fi is disconnected during use, the machine will automatically collect the weather data with a interval of 15 minutes after the Wi-Fi is reconnected.

### 3. The main machine does not display the data of the auxiliary machine

Press the “SYNC/PAIR” button on the main machine, and then press the button at the top of the auxiliary machine to synchronize the data.

### 4. Fail to synchronize the main machine with the auxiliary machine

Check the battery power; re-install the battery if needed. Press the “SYNC/PAIR” button on the main machine, and then press and hold the button at the top of the auxiliary machine to synchronize the main machine with

the auxiliary machine.

5. The auxiliary machine is offline

Check if there is any metallic objects nearby. Place the machine away from metallic objects, the auxiliary machine will automatically reconnect. Or press the “SYNC/PAIR” button on the main machine, and then press and hold the button at the top of the auxiliary machine to reconnect.

6. How to add a new auxiliary machine

Press the “SYNC/PAIR” button on the main machine, and then press and hold the button at the top of the auxiliary machine, you will hear the main machine buzzing, the auxiliary machine will be synchronized to an unpaired channel. A main machine can pair three auxiliary machines at most.

## Certification

### FCC Information

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:

1. This device may NOT cause harmful interference,
2. This device must accept any interference received, including interference that may cause undesired operation.


**WARNING:** Changes or modifications to this unit 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 the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

## Documents / Resources

	<p><a href="#">BliTZWOIF BW-WS02 Smart Weather Station with Clock</a> [pdf] User Guide BW-WS02, Smart Weather Station with Clock</p>
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