Manuals+ — User Manuals Simplified.

ecowitt

AC1100 WittSwitch Smart Plug

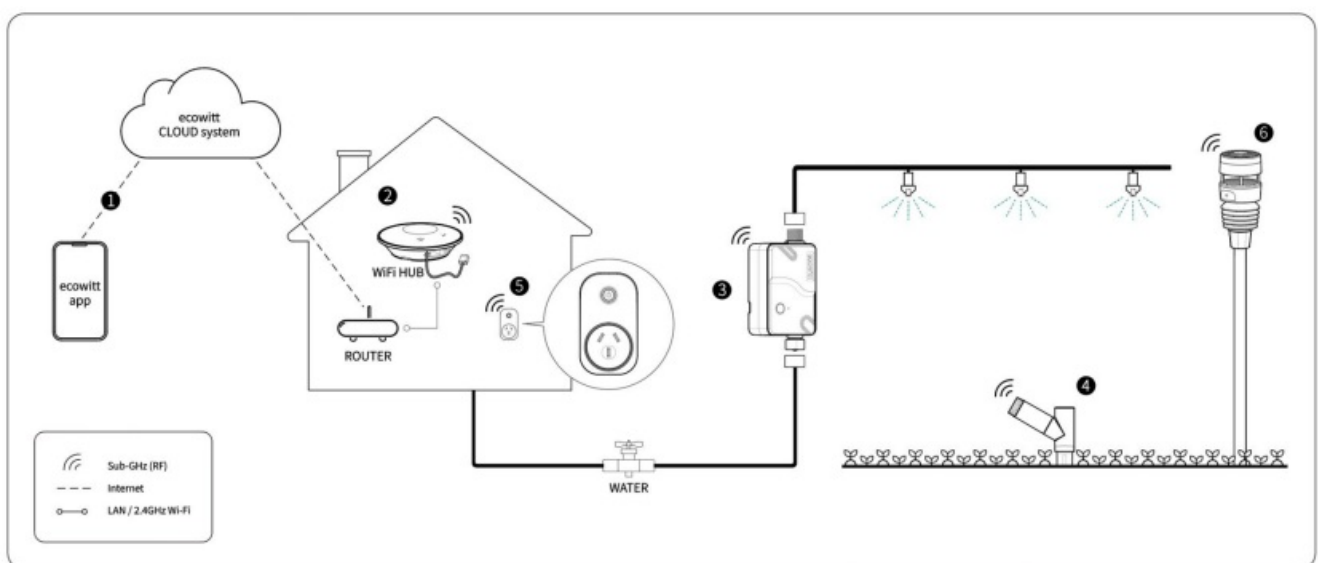# ecowitt AC1100 WittSwitch Smart Plug User Guide

Contents

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ecowitt AC1100 WittSwitch Smart Plug

Package List

- 1* AC1100
- 1* Manual

Brief Introduction

Thank you for purchasing the Ecowitt AC1100 Smart Plug.
The Ecowitt AC1100 is a brand new smart plug that is compatible with the Ecowitt IoT ecosystem. When paired with the Ecowitt IoT gateway, it allows remote control of power on/off, energy consumption tracking, remote alarms, and more. Additionally, it features a smart mode, enabling home appliance automation based on preset

conditions.

Please note that the AC1100 needs to be used in conjunction with the Ecowitt IoT gateway and can't be used as a standalone product.

The following User Manual provides step by step instructions for installation and operation. Use this manual to become familiar with your professional Smart plug and save it for future reference.

Configuration Process

Before configuring the AC1100, you need to set up an IoT-enabled gateway. IoT gateway configuration brief introduction will be covered in Section 1.1, followed by the configuration and usage of the AC1100 with the IoT gateway in Section 1.2.

IoT Gateway Pairing Instructions

Compatible IoT Gateway models

Prepare an IOT-supported gateway that has been added to Ecowitt, ensuring the frequency matches. The compatible models are listed in the table below.

Compatible Models

Model	Picture
GW1200	
GW2000	
WS3900/WS3910	
WN1980/WN1920	
WS3800	
WN1820/WN1821	

Install Ecowitt app

Install "ecowitt" APP

- Install "ecowitt" app.
- Register and log in.
- Make sure the app has (precise) location and WiFi service enabled.
- Disable your mobile phone cellular data service until all setup steps are done.
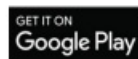
2. Pair hub to your home WiFi

- Run"ecowitt"app.
- Tap "menu" — >weather station" —>"+ add a new weather station.
- Follow the instructions to complete the hub to be added under your account.
- You can add as many weather stations under your account.

3. Pair AC1100 to your hub

- Tap "…" from the dashboard on top right comer, go to "+subdevice"
- Follow the instructions to pair your AC1100 to the hub.

4. Register sensors on your hub

- Tap "…" on the top right corner of the dashboard to access the "Sensor ID" page.
- Ensure that your sensor has been correctly registered, with its sensor ID properly matched.
  (**Note:** Step 4 is only applicable when you have additional Ecowitt sensors or for further reference.)

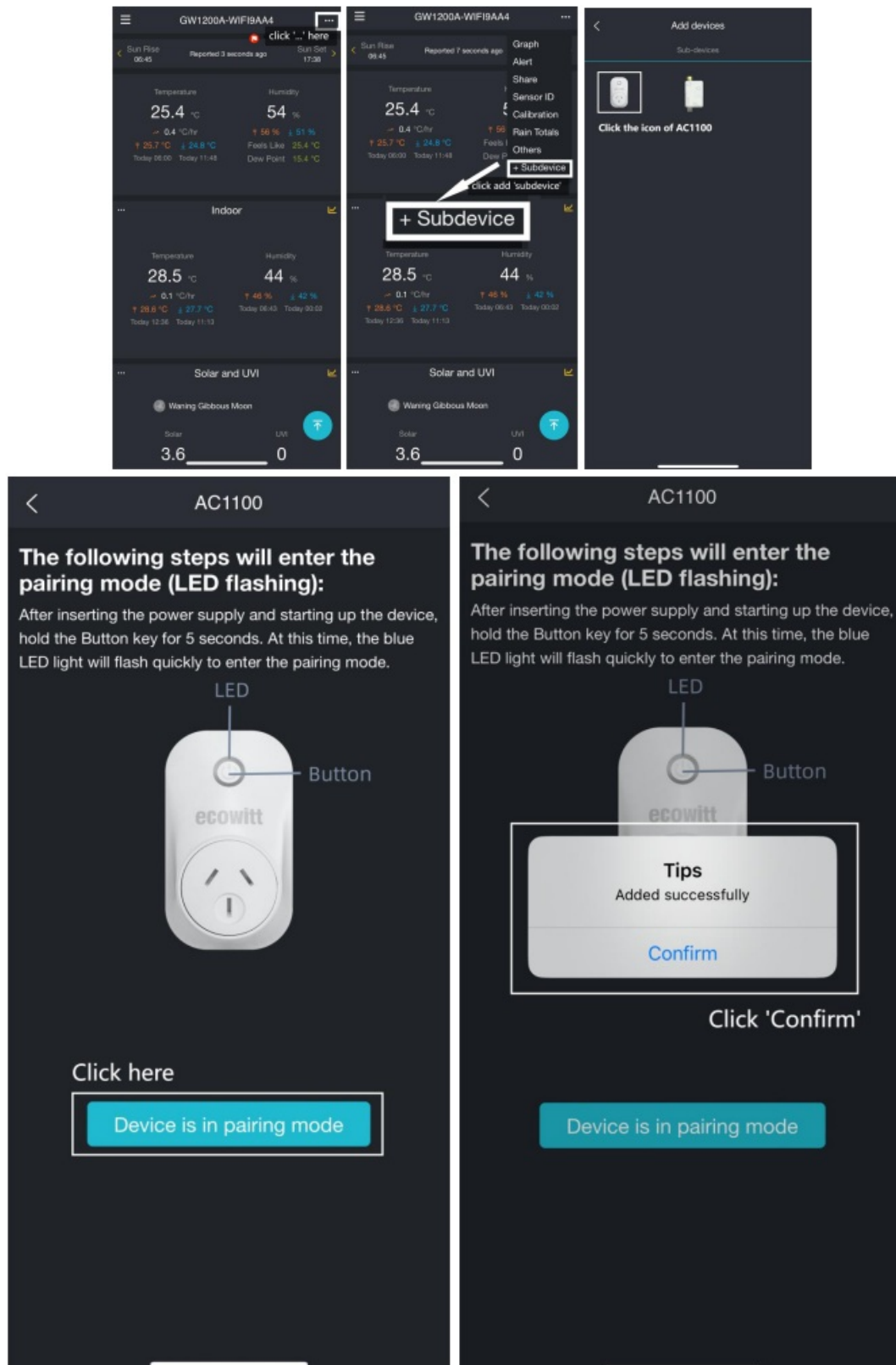## Pair the AC1100 with an IoT gateway

Power on AC1100
Plug it into a power outlet, press and hold the button for more than 5 seconds, the blue light flashes and it enters the pairing mode.

Pair with an IoT Gateway
(In order to illustrate clearly, here is a Pairing demonstration with GW1200)
Click as the following steps

1. Open ecowitt app
2. Enter the gateway dashboard. Click '…' on top right corner.
3. Click '+Subdevice' and choose the icon of AC1100.
4. Click 'Device is in pairing mode' and wait till the success tip pops up.
5. Pairing completed, and it will automatically navigate to the AC1100 interface.

Figure 2 Pair an AC1100

App Operation Introduction

Main Interface Introduction

Figure 3 Main Interface Introduction

Figure 4 AC1100 Interface Introduction

1. Signal strength
2. Input voltage|
3. Power consumption
4. Running time of current program
5. Program time
6. Current status

	Complete (Blue)	Running (Green)	Stop (Yellow)
Manual Control			
App Control			
Smart Control			
Plan Control			

Table 2 AC1100 Interface Introduction

7. Enter log diary and alert notifications
8. Enter Plan Mode
9. Enter Smart Mode
10. Other information

Figure 5 Other Information Introduction

11. Current power

12. Usage of the current program

13. Switch button

14. Total Runtime of the current program

App Operation Modes

The operation mode includes Button mode, Manual mode, Plan mode, and Smart mode. Each mode trigger will be interrupted by each other, and the operation generated by the most recent trigger will take effect.
For example, AC1100 is on by schedule under the plan mode. At this time, a condition under the smart mode is met, which triggers the AC1100 to switch off immediately. When the next scheduled time arrives, AC1100 will be switched on again.

Manual Mode
Execute immediately after setting the power consumption mode on APP.
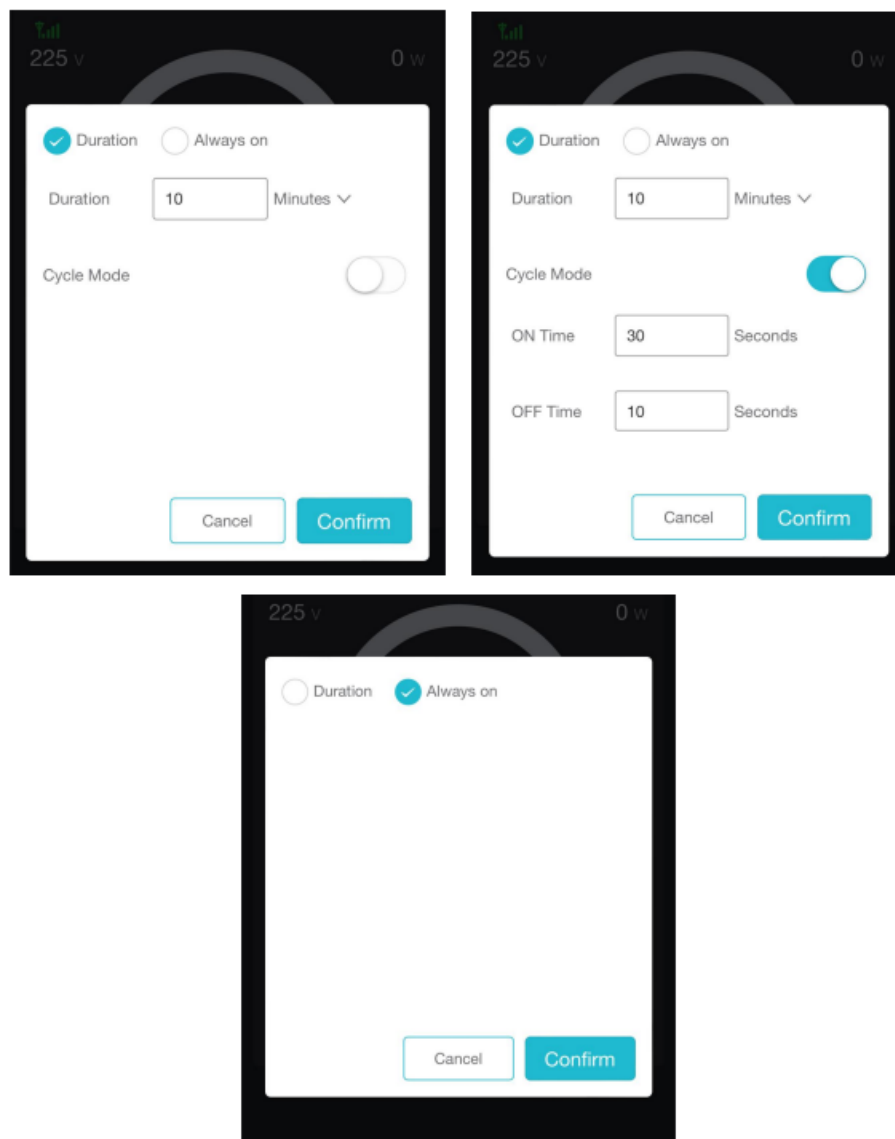
Initial statement

In the initial state, clicking the switch button allows you to choose between 'By Duration' and 'Always On.' In the 'By Duration' mode, you can also select the on and off states for the cycle mode.
Cycle Mode ON & OFF range: 5seconds~3600seconds

Figure 6 Manual Mode program Illustration

Figure 7 Three Manual mode setting conditions

Running statement
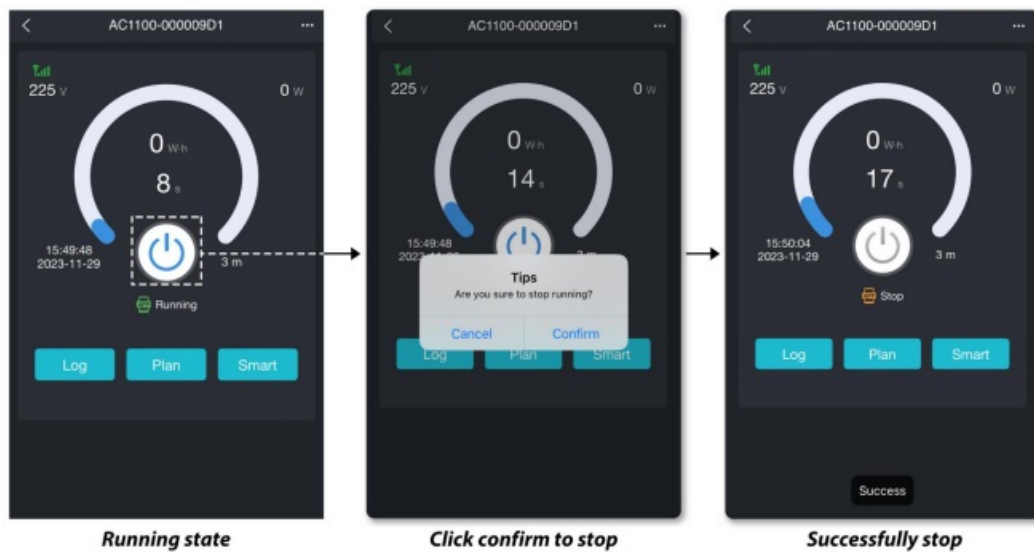When in running state, click the switch button to stop running directly. The switch button turns gray.

Figure 8 Manual stop the current plan

Button Mode
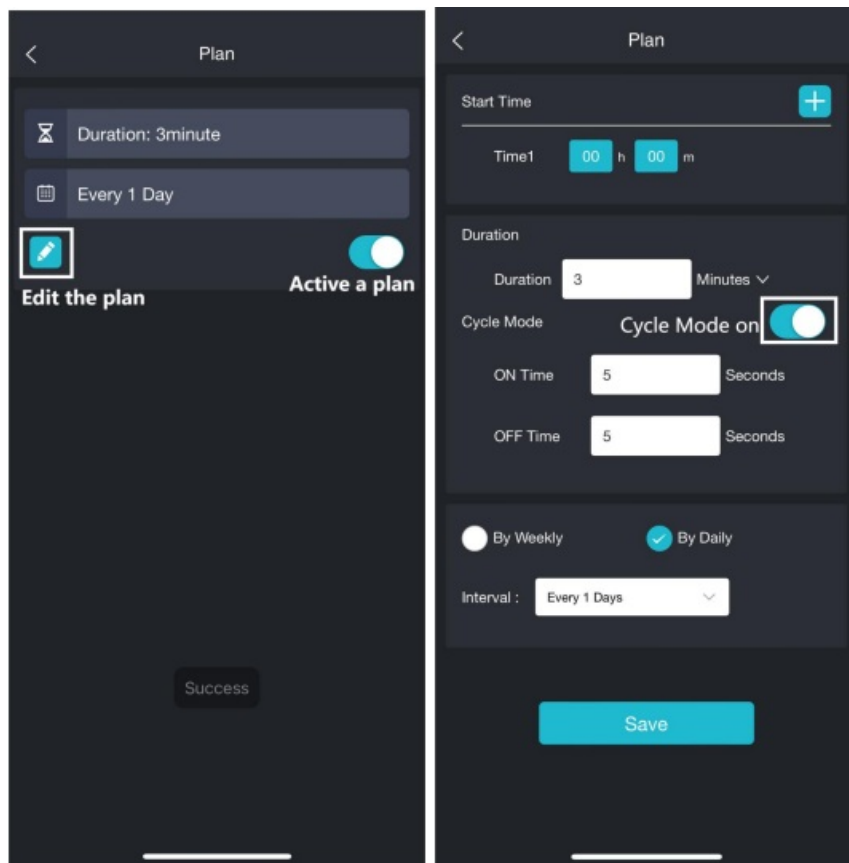

Figure 9 Button Display

Short Press
Execute Quick Run or terminate the current program. Quick Run refers to the execution actions set in the last Manual Mode.

Plan Mode
After successfully setting up the plan, it will be saved on the AC1100. Even if the AC1100 is disconnected from the gateway, it can still execute the plan as scheduled.

1. Select "Plan" to enter the plan editing interface.

2. Use the switch icon on the right to control the activation or deactivation of the plan.

3. Click the edit icon to access the editing interface.

4. In the editing interface, you can set the plan's start time, total duration, and choose whether to enable the cycle mode.
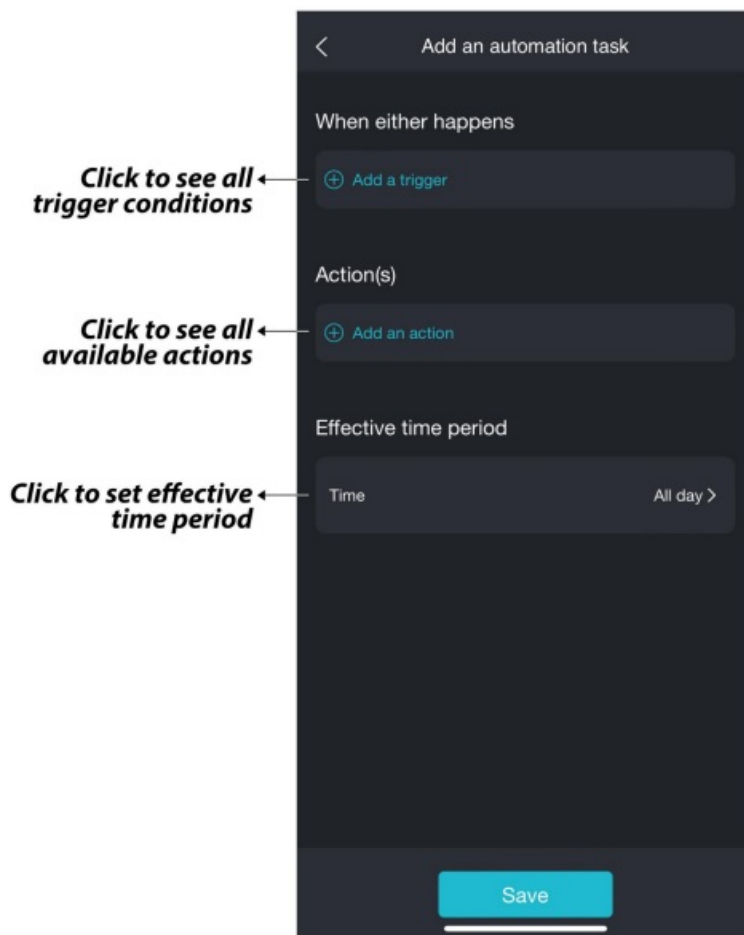
Figure 10 Edit the plan

Smart Mode
This feature enables the control of the AC1100 according to preprogrammed conditions.

Important Notes:

- APP side operation for the setup of MANUAL(ON/OFF), PLAN, and SMART operations involves communication with Ecowitt's IOT server. Once commands are downloaded, the hub independently executes them when triggered by local sensor data. Upon completion, the hub sends execution results to the ecowitt IOT server for logging. This ensures that even without a server connection, planned command execution proceeds as intended.

- **A DESIRED FEATURE ON OUR WISHING LIST:**
  If you have multiple hubs, sensor data from other hubs can serve as a triggering source. However, this functionality implicitly requires that all hubs are registered under the same user account and connected to the server as a bridge. While this is technically feasible, the cross-hub triggering feature has not been implemented in the current design. We plan to introduce support for this feature through Over-The-Air (OTA) upgrades to your hub firmware. Please stay tuned for announcements regarding the addition of this feature in future updates.

How to add an automation task
The following introduces the content of each section when setting up an automation task.

Add a trigger

The conditions can be selected to execute the task when the supported parameters in the gateway are higher than the specified value/lower than the specified value/equal to a certain state.
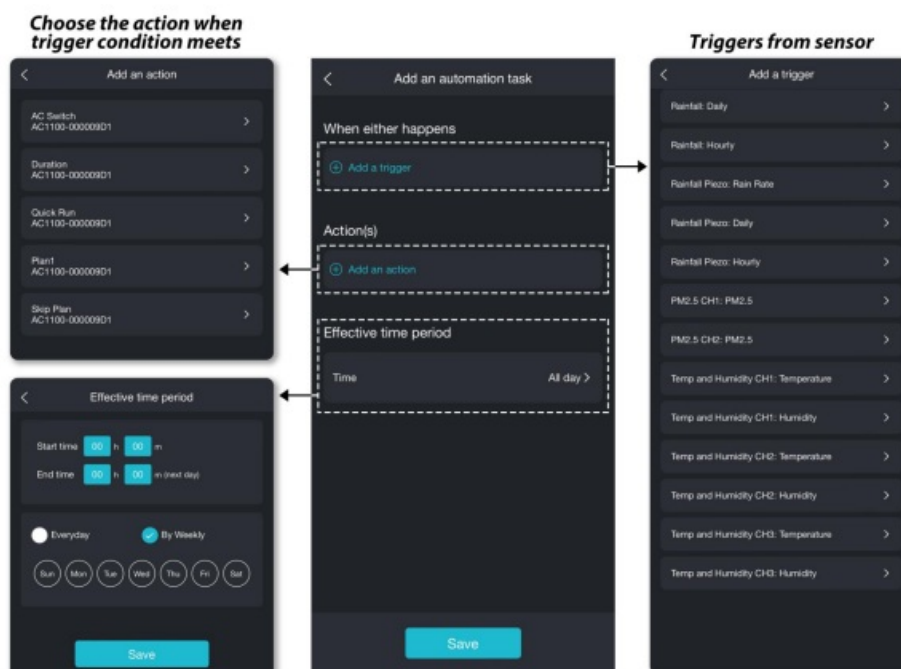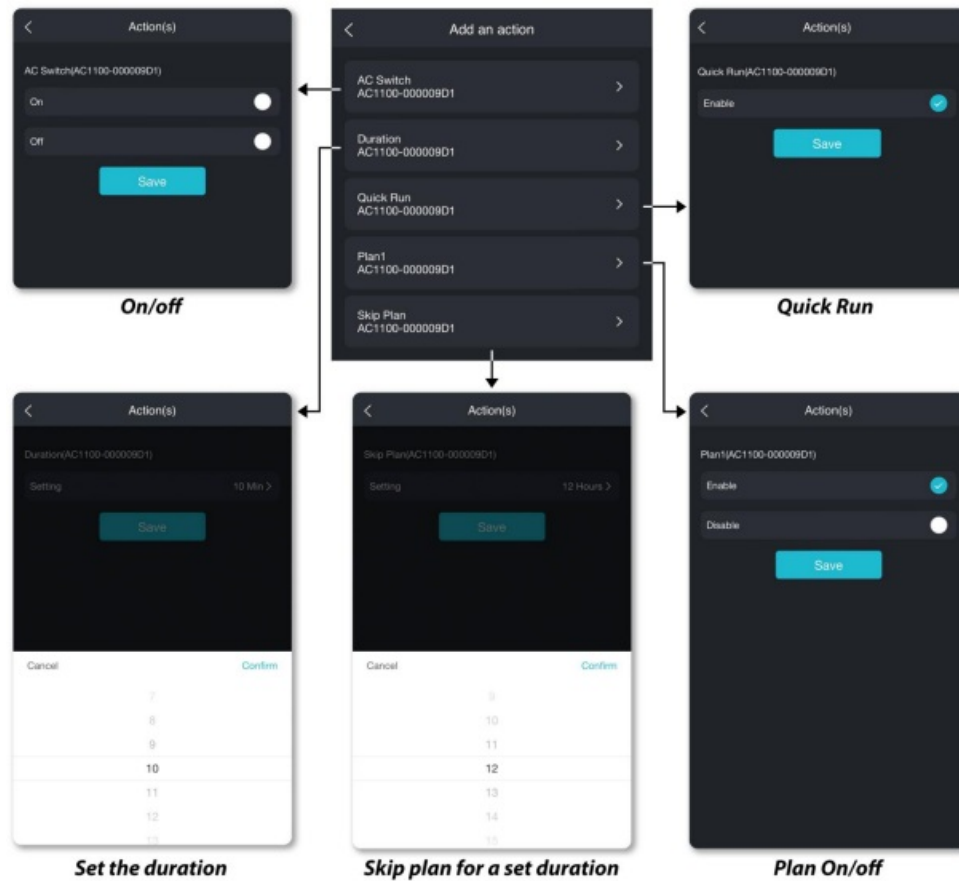

Figure 12 Automation task setting introduction

You can also set the task to be executed when multiple trigger conditions are satisfied at the same time or when multiple conditions are satisfied arbitrarily (either one or the other).
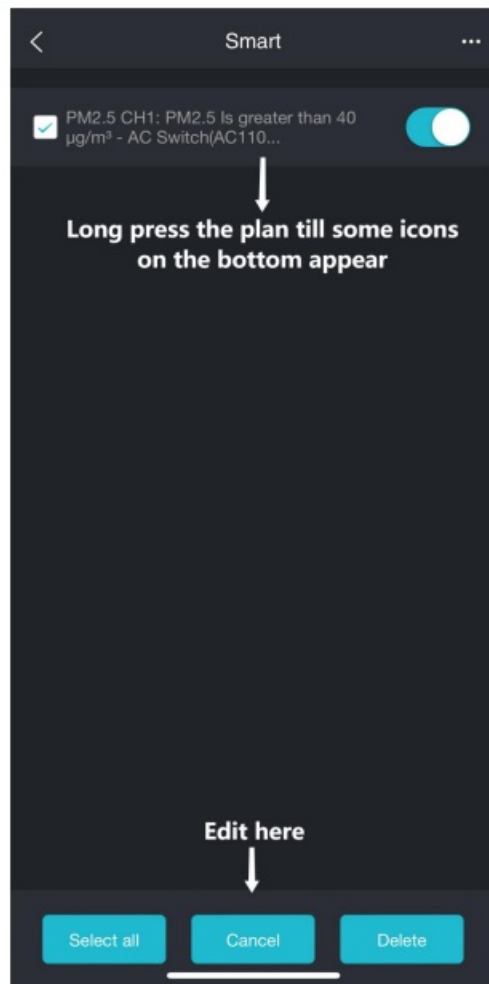
Add an action

The following actions can be set.

- **a)** Set the status of AC1100 as on or off
- **b)** Set the duration
- **c)** Execute the Quick Run setting
- **d)** Activate of deactivate the plan
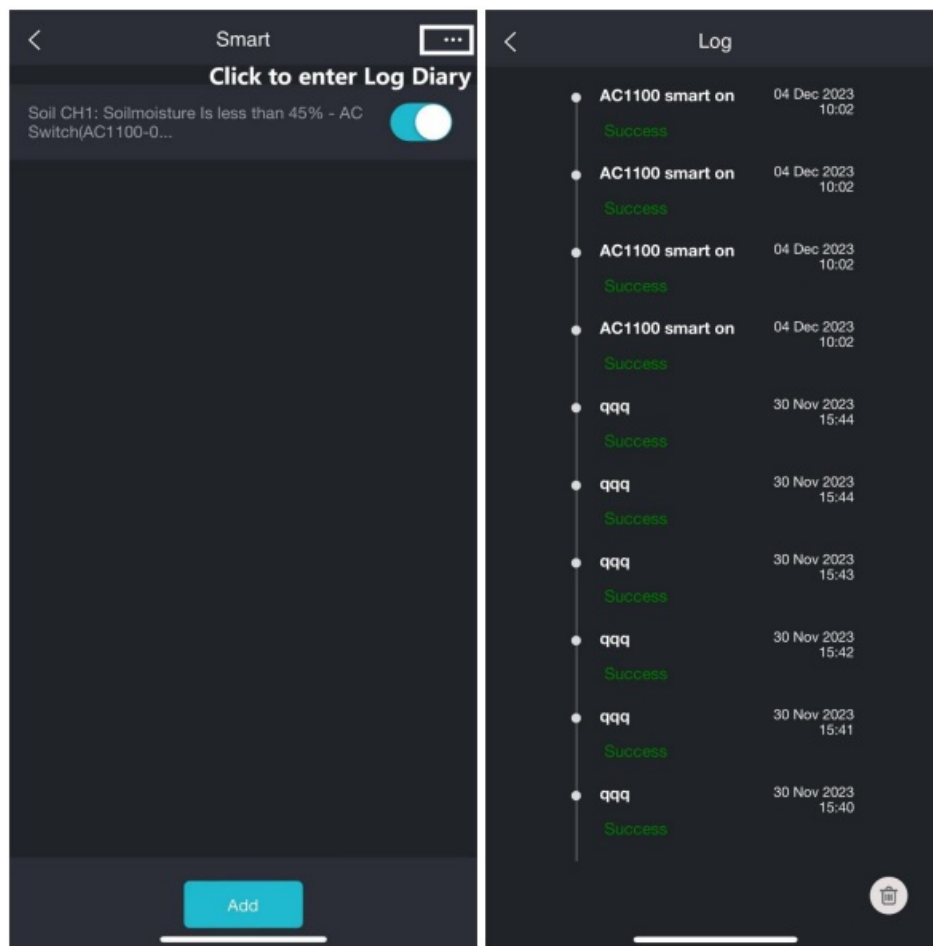- **e)** Skip the plan for a set duration

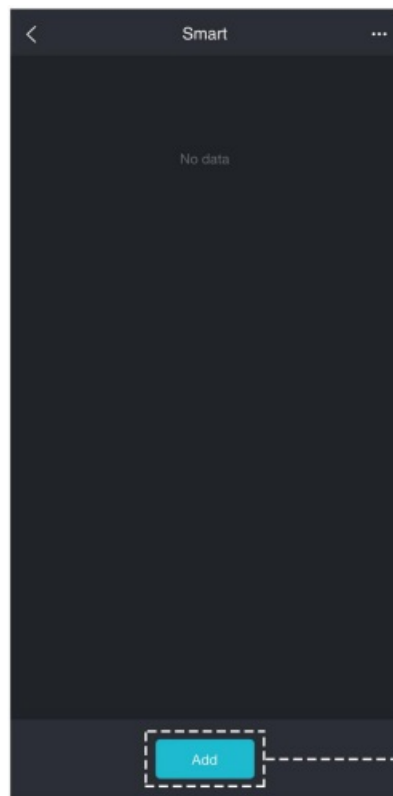**How to manage automation tasks**

Figure 14 Edit smart plans

Smart Mode log
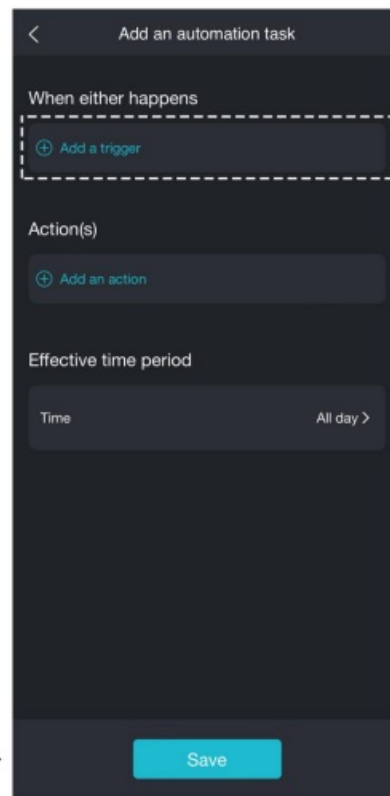
Figure 15 Smart Mode Log Interface

An operation example

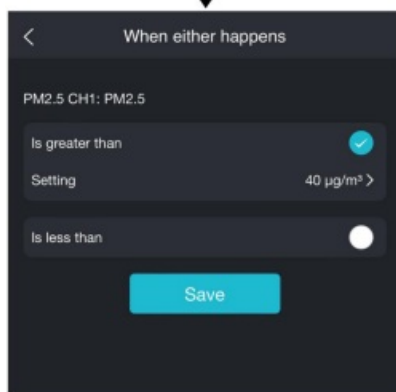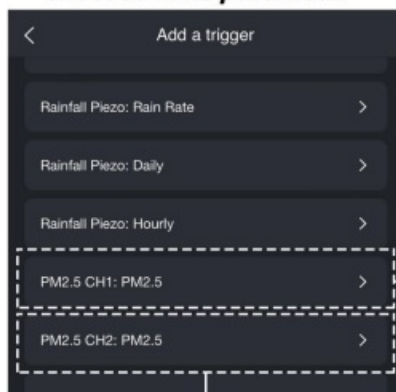Here, we provide an example. When the AC1100 is connected to the home air purification system, you can set it to automatically turn on when the PM2.5 value exceeds the preset 40ug/m3.

Add an automation task
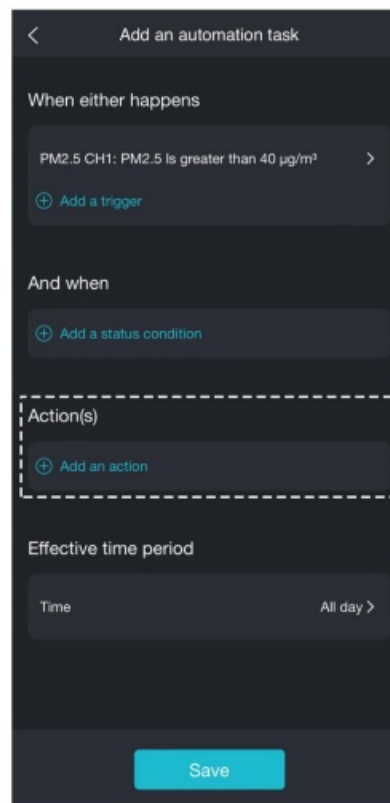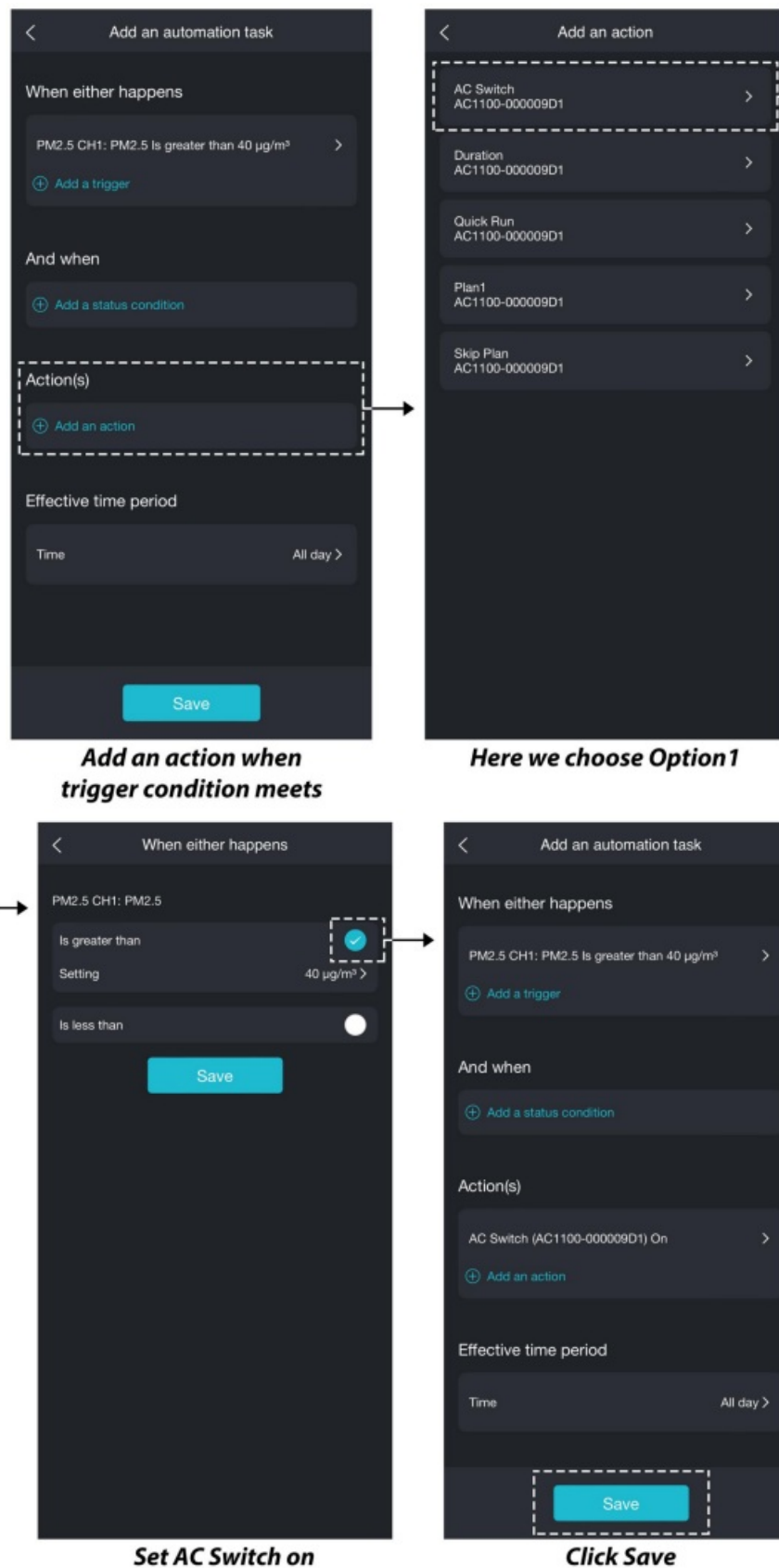**Choose PM2.5 parameter**

Add a trigger

Set the trigger to be
PM2.5 >40ug/m3

Add an action when
trigger condition meets

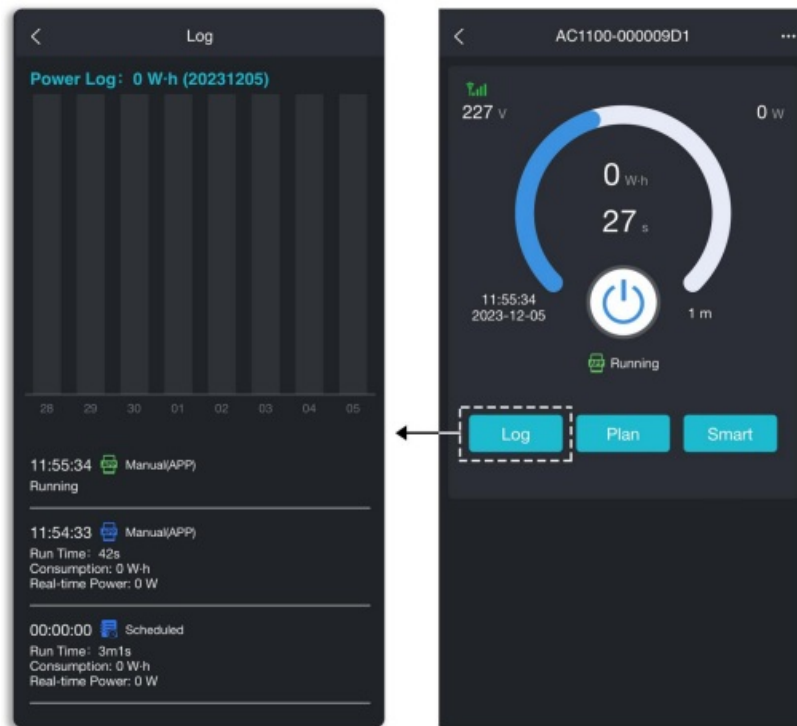**An automation task has been set up successfully**

Figure 16 Automation Example

Log Introduction

Click Log to enter the log diary interface. On this interface, you can view all power consumption log diaries and also check alert information.

Figure 17 Log Interface

Log Diary
Each log diary will involve the operation mode, Run Time, Consumption, and Real-time Power.

Alerts Introduction
Alerts is also involved in log Interface. Here are descriptions of the following four alert types.

Communication is unstable!
Smart mode will be disabled. Please adjust the position of the AC1100 or WiFi hub.

Anomaly Alert!
Device self-check unstable.
Please reconfigure the network before use.

Leakage Alert!
When is off state and there's still power output, it's assumed as a Leakage fault.

Overload Alert!
When the AC voltage exceeds 270V or the current surpasses 18A, will forcibly get switched off and provide a notification in the app.

Overview and Specifications

AC1100BU American Regulation

Dimensions	62.0×56×110(mm)
Weight	118g
Material of Plastic Casing	PC
RF Connection Frequency	915MHz
RF Wireless Range	Over 100 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	125VAC
Max Current	12A
Max Power	1500W
Power Meter Accuracy	±2%

AC1100CAAustralia Regulation Version

Dimensions	62.0×64×110(mm)
Weight	118g
Material of Plastic Casing	PC
RF Connection Frequency	433MHz
RF Wireless Range	Over 90 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	100—240VAC
Max Current	10A
Max Power	2300W
Power Meter Accuracy	±2%

AC1100AU British Regulation Version

Dimensions	62.0×65×110(mm)
Weight	137g
Material of Plastic Casing	PC
RF Connection Frequency	868MHz
RF Wireless Range	Over 100 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	100—240VAC
Max Current	13A
Max Power	3000W
Power Meter Accuracy	±2%

AC1100AE European Regulation Version

Dimensions	62.0×72×110(mm)
Weight	130g
Material of Plastic Casing	PC
RF Connection Frequency	868MHz
RF Wireless Range	Over 100 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	100—240VAC
Max Current	16A
Max Power	3500W
Power Meter Accuracy	±2%

Warranty

- We disclaim any responsibility for any technical error or printing error or the consequences thereof.
- All trademarks and patents are recognized.
- We provide a 1-year limited warranty on this product against manufacturing defects or defects in materials and workmanship.
- This limited warranty begins on the original date of purchase, is valid only on products purchased, and only to the original purchaser of this product. To receive warranty service, the purchaser must contact us for problem determination and service procedures.
- This limited warranty covers only actual defects within the product itself.

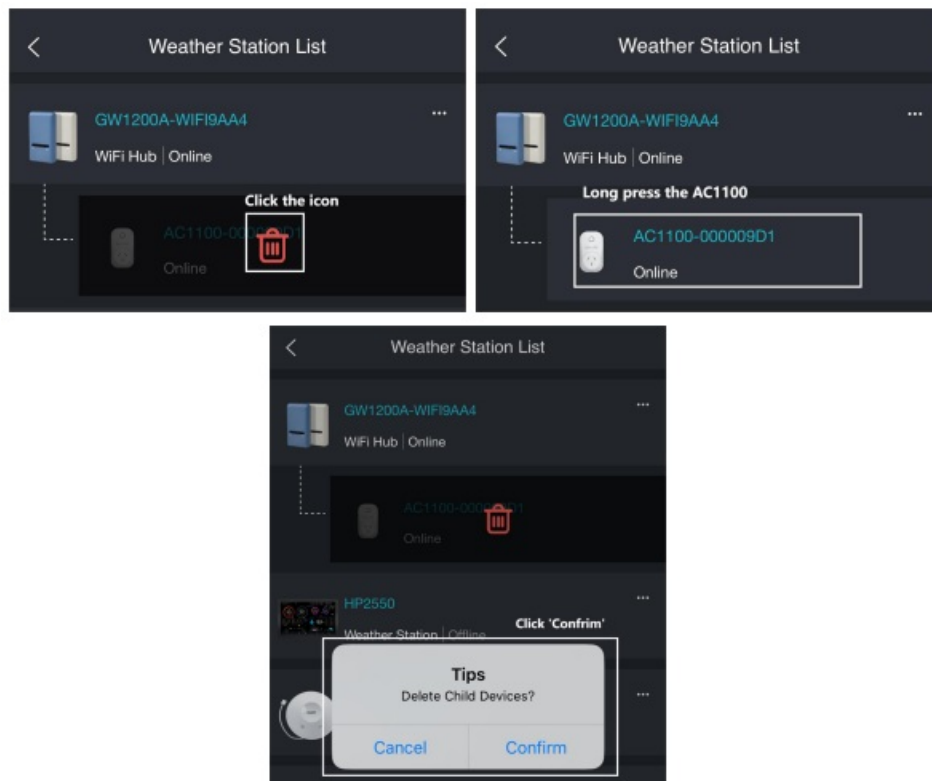**Manufacture:** ShenZhenShi OuSaiTeDianZi YouXianGongSi
Address: Shajingjiedao, Xihuanlu, Minzhujiujiugongyecheng AQu, C Dong 4 Ceng A, Shenzhen Baoanqu Guangdong 518101 CN

Trouble shooting

When you need to reconfigure the AC1100

Delete the AC1100

1. Enter the Weather Station List interface
2. long press the AC1100 under the gateway till the delete icon appears, click the icon.
3. AC1100 is successfully deleted.

Figure 18 Delete an AC1100

Restore Factory Setting
Long Press button for 10s.

ReconfigureAC1100 and the IOT gateway
Go to 1.2.2.

Contact Us

Order Issues:
If you encounter any missing or incorrect shipments of Ecowitt products purchased, please reach out to the respective platform's customer service from the store you bought product for assistance

Usage Inquiries:
For any issues related to product usage, feel free to contact our customer support team at **support@ecowitt.com** with your AC1100 SN Number(as shown below). We are committed to providing assistance and resolving any concerns you may have.

Figure 19 AC1100 SN Number

Figure 19 AC1100 SN Number
support@ecowitt.com
Shenzhen Fine Offset Electronics Co., Ltd.
602, 1A, Vanke Yuncheng, Nanshan District, Shenzhen City, China 518055

Stay in Touch
Ask questions, watch setup videos, and provide feedback on our social media outlets. Follow Ecowitt on Discord, YouTube, Facebook and Twitter.

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Documents / Resources

	ecowitt AC1100 WittSwitch Smart Plug [pdf] User Guide AC1100, AC1100BU, AC1100CA, AC1100AU, AC1100AE, AC1100 WittSwitch Smart Plug, AC1100, WittSwitch Smart Plug, Smart Plug

References

- **User Manual**