Smart SWHS
operating instruction

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1. APP function list

1.1APP Download



Android



IOS

1.2APP function list

Function module	Function	Sub-function	Description
Remote monitoring	Sign in	Password Login	Log in to the system through the account password
		Retrieve the password	Retrieve password through email verification
			Retrieve password through mobile phone verification
		Sign up	Verify the registered account by email
			Verify the registered account through mobile phone
		Multilingual	Support switching between Chinese and English for the current APP
	Device Information	Add Device	Support for adding devices using Bluetooth, scanning for adding devices, adding devices manually
		Device List	Add Device
		Device monitoring	Support to view the currently selected number of pickers PN, temperature, PV voltage, PV power, power generation on the day, commercial power status, working mode, fault alarm
	Device Settings	Device Name	Modify the name of the currently viewed device
		Water heater settings	Support to issue instructions to the current settings: photovoltaic maximum water heating temperature, Utility maximum water heating temperature, manual heating, synchronization time, timing heating, turn off utility auto-heating, timer 1, timer 2
		Data logger settings	Restart the currently viewed device
			Delete the currently viewed data logger
	Me	Phone number	The current account supports binding mobile phone numbers and changing mobile phone numbers.

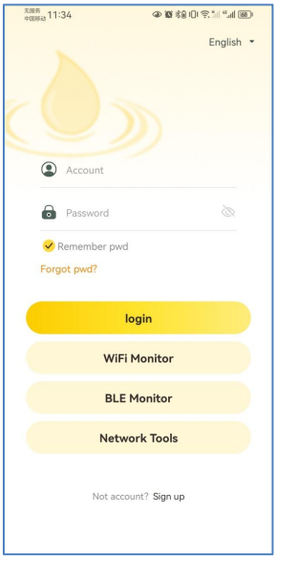
		Email	The current account supports binding and changing mailboxes.
		Change Password	Support to modify the login password of the current login account, support to use new password to login at the next login
		Account Cancellation	Support to cancel the account and all information data under the account after devices are deleted.
		Wi-Fi monitoring	Wi-Fi local monitoring
		Bluetooth monitoring	Bluetooth local monitoring
		Distribution network tools	Supports router network configuration for connected devices
		Log out	Sign out of the login APP
Wi-Fi monitoring	Wi-Fi connection		Support to view the current connection Wi-Fi, connection status
	Device Information		Support to view the currently selected data logger PN, temperature, PV voltage, PV power, Daily power energy, Utility status, Operating mode, fault warning
	Device Settings		Support to issue instructions to the current settings: photovoltaic maximum water heating temperature, Utility maximum water heating temperature, manual heating, synchronization time, timing heating, turn off utility auto-heating, timer 1, timer 2
Bluetooth monitoring	Device Nearby		Monitor device data in seconds by connecting devices via Bluetooth
	Device Information		Support to view the currently selected data logger PN, temperature, PV voltage, PV power, Daily power energy, Utility status, Operating mode, fault warning
	Device Settings		Support to issue instructions to the current settings: photovoltaic maximum water heating temperature, Utility maximum water heating temperature, manual heating, synchronization time, timing heating, turn off utility auto-heating, timer 1, timer 2

2. Remote Monitoring

2.1 Login

2.1.1 Password Login

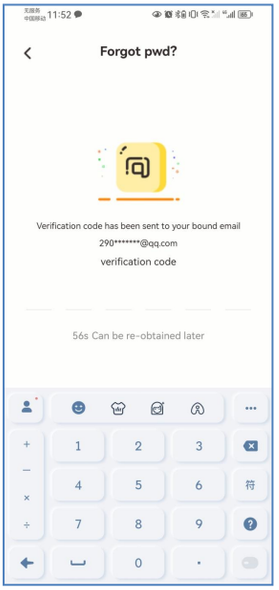
Enter the mobile phone number or email address you used when registering, enter the password, and click Login below to enter the account registration page to log in to the system.

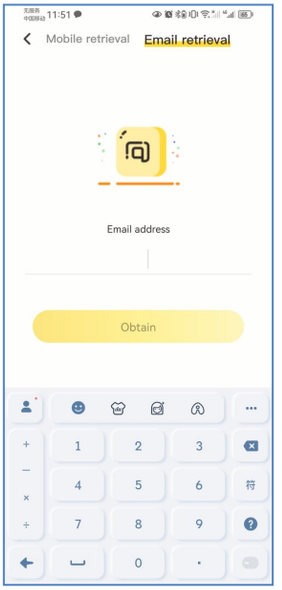


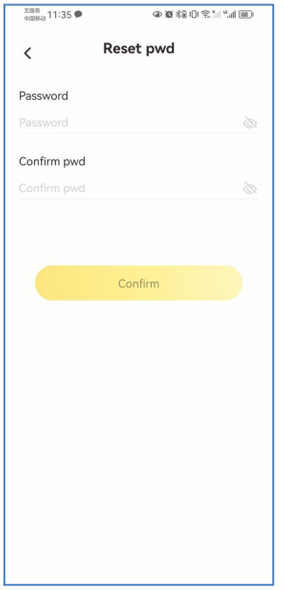
2.1.2 Retrieve the password

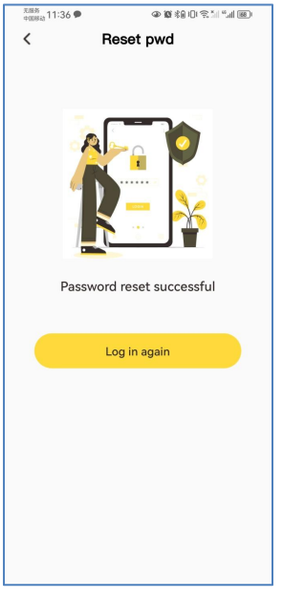
If you forget the login password of the App account, you can reset the account password through the process of retrieving the password.

- On the Login page, click Forgot Password,
- Enter the mobile phone number or email address you used when registering, click Get Verification Code,
- Enter the verification code page, enter the received verification code, and click OK,
- Reset the password, click OK,
- Click Login again after completion to log in with the new password.



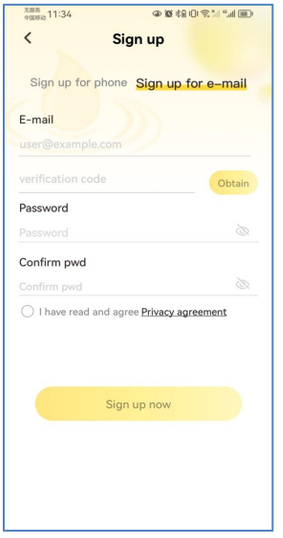






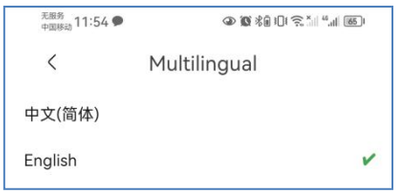
2.1.3 Registration

After entering the mobile phone number or email address, click Get Verification Code, enter the received verification code, set the password, and click Register Now to complete the registration.



2.1.4 Multilingual

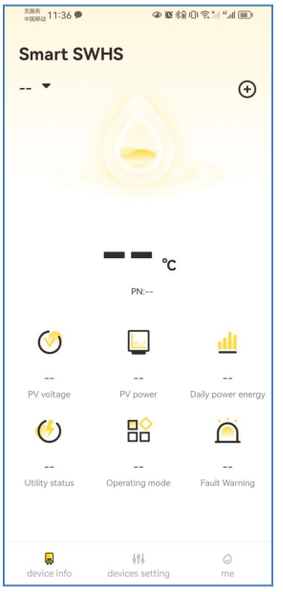
In the upper right corner of the login interface, set the language displayed by the entire APP. Currently, Chinese and English are supported.



2.2 Device Information

2.2.1 Adding Device

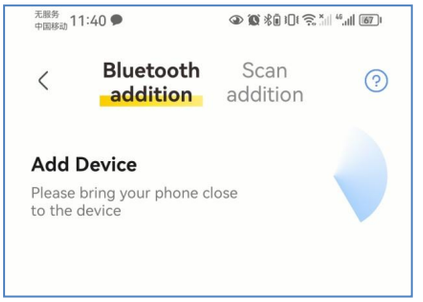
On the Device Information page, click the + button in the upper right corner to enter the Add Device page. Add devices are divided into two ways: Bluetooth add and scan code add.



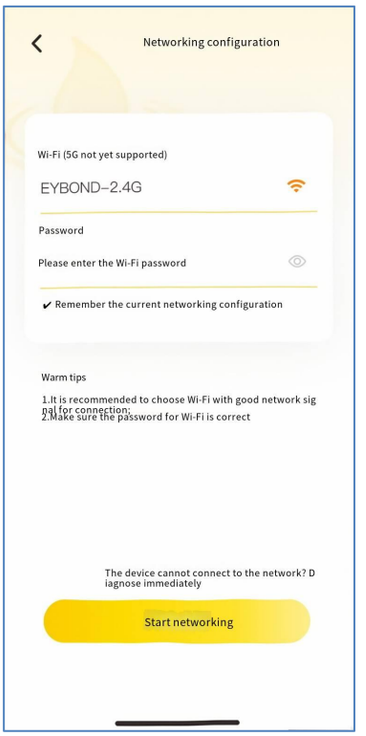
Bluetooth Add (only supports devices with Bluetooth module)

When using the Bluetooth add function, you need to allow the App to enable Bluetooth and positioning rights. If Bluetooth permission is not enabled, nearby Bluetooth devices cannot be searched. And some Android phones need to turn on the positioning system before they can be used.

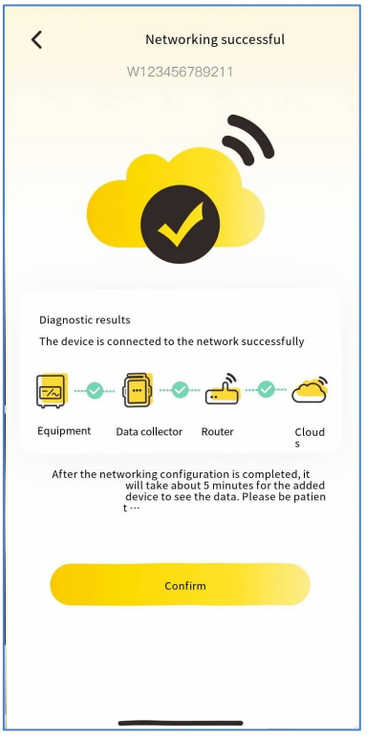
1. After making sure that the device is powered on, click "Bluetooth Add", select the device with the same device name/PN, and click the "" icon;



2. If it is a data acquisition device using GPRS or 4G module, the addition is successful if "√" is displayed after the device.
3. If it is the data collector of the Wi-Fi module, it will continue to enter the networking interface to configure the network:
   a. Select the router to be configured and fill in the password, and click the "Start Networking" button;

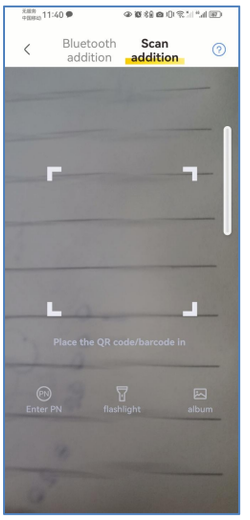


b. After entering the configuration, wait for 30s,APP will feedback information according to the distribution network result:
   i. If the distribution network is successful, it means that the addition is successful. After waiting for about 5 to 10 minutes, the device data can be viewed normally;
   ii. If the configuration fails, troubleshoot the problem according to the diagnosis results and repair suggestions.



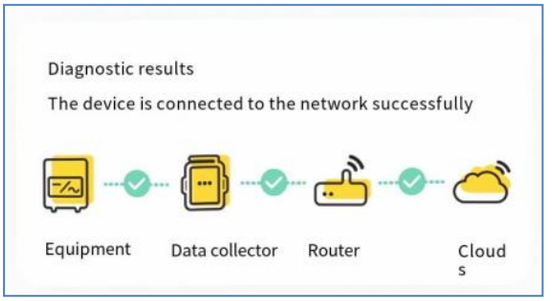
Sweep Code Add

1. Click "Scan Code Add" to scan the QR code of the data collector, or click "Enter PN" in the lower left corner to complete the addition of equipment.



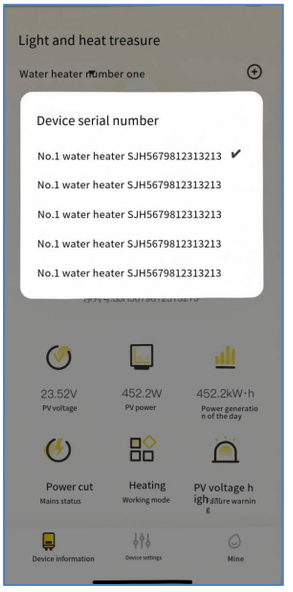
2. After the device is added, you also need to ensure that the device data can be uploaded to the cloud. If the data collector does not have a network, the data cannot be uploaded to the cloud.

- If you are using GPRS or 4G module, you need to ensure that the flow card can be used normally.
- If you are a data collector of the Wi-Fi module, you need to connect the data collector to the Wi-Fi network (for details, please refer to "2.2.6 Network Distribution Tool")



2.2.2 Device List

On the Device Information page, click ⊕", you can view all devices under the account;



2.2.3 Device monitoring

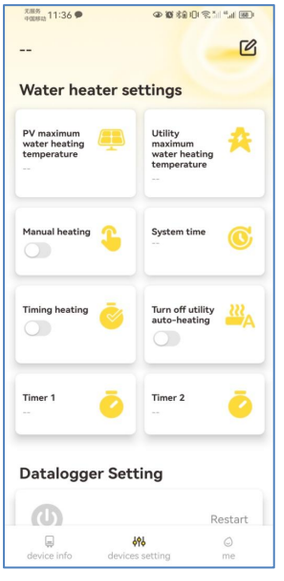
It can support viewing the currently selected data collector PN, temperature, PV voltage, PV power, Daily power energy, Utility status , Operating mode and fault alarm.
Note: To view the fault alarm, you need to click View. After clicking, the "All Alarms" window will pop up.



2.3 Device Settings

2.3.1 Device name

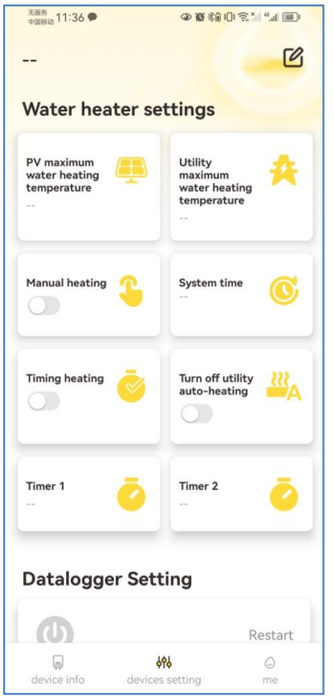
Display the device name of the currently selected device, and click"Icon jumps out of the" Edit Device Name "window, enter the device name, and click the" Agree "button;

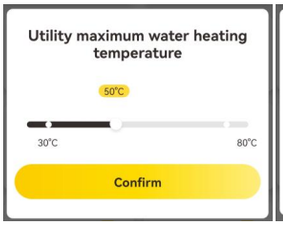


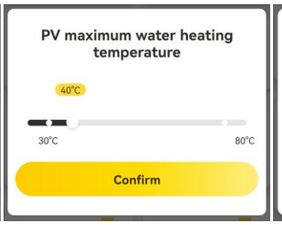
2.3.2 Water heater settings

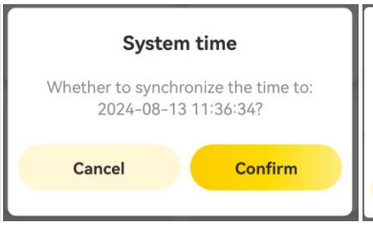
- On the device information page, click the "Device Settings" button in the navigation bar at the bottom to enter the device control interface;

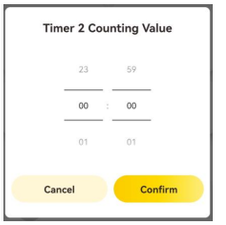
- Device Control: Read/control a control item





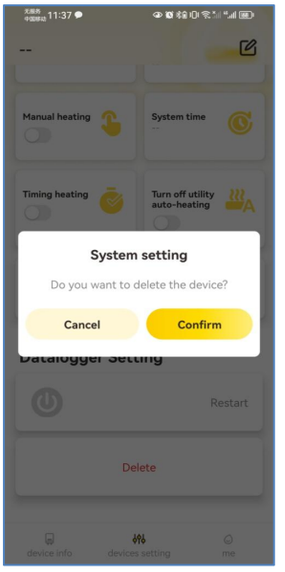






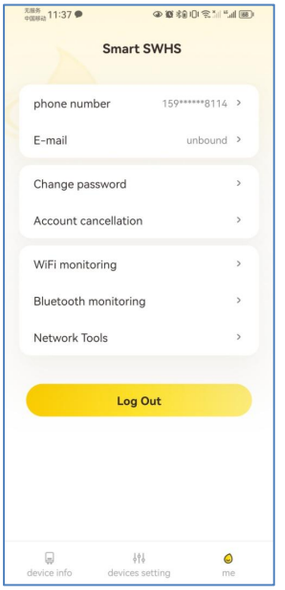
2.3.3 Data collector Setting

- On the Device Information page, slide down to the bottom;
- Click the "Restart" button to re-select the currently selected device;
- Click "Delete" button and "OK" to delete the currently selected device;



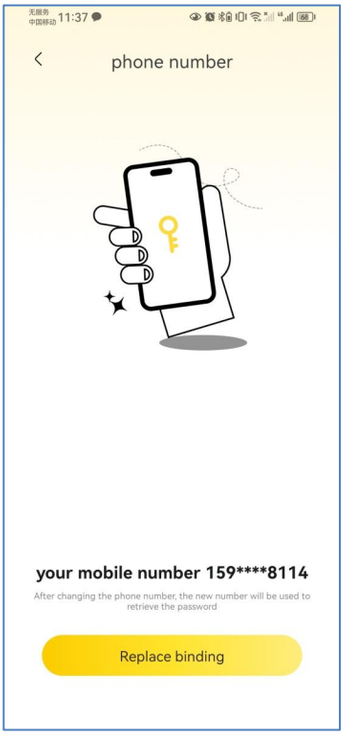
2.4 Me

Click the "Me" button in the bottom navigation bar to enter my interface,

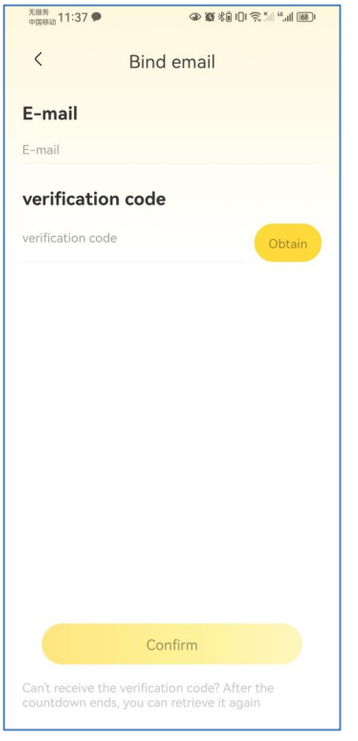


2.4.1 Mobile Phone Number/Email

- Click the mobile phone number, and click Mailbox if you need to change the mailbox. The following is an example of changing the phone number:
- Click Change phone number.
- Enter the mobile phone number to be replaced, click Get Verification Code, enter the received verification code, and click OK to replace it successfully.

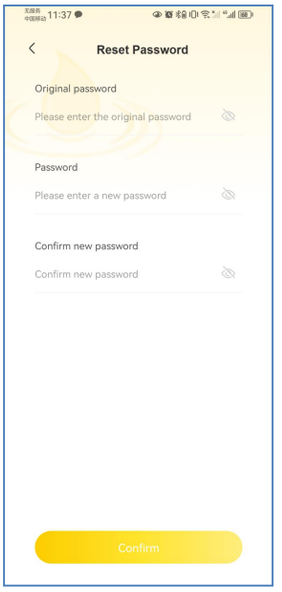


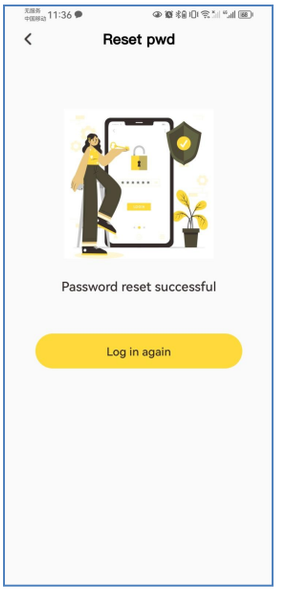




2.4.2 Change the password

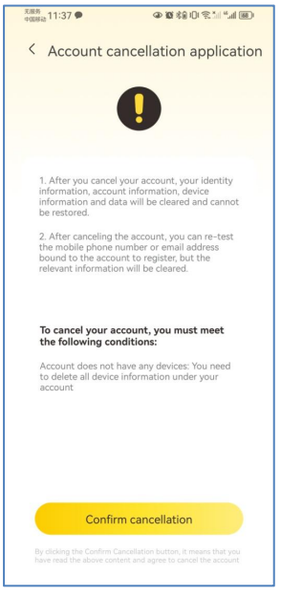
- Click Change Password to enter the Change Password page,
- Enter the original password and the new password, and click OK to modify the password.





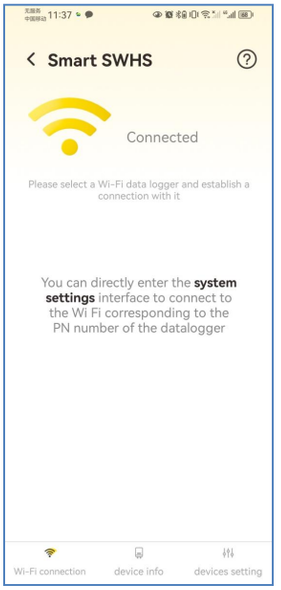
2.4.3 Account Cancellation

- Click Account Logout to enter the Account Logout page,
- Click the Confirm Logout button to enter the authentication page,
- Enter the original password and click OK (when there is no device under the account) to successfully apply.
- After waiting for 7 days, the account can be canceled, and the account can be registered again after the cancellation is completed.
- Support the cancellation application within 7 days of the application for cancellation, and support normal use after the cancellation is successful.

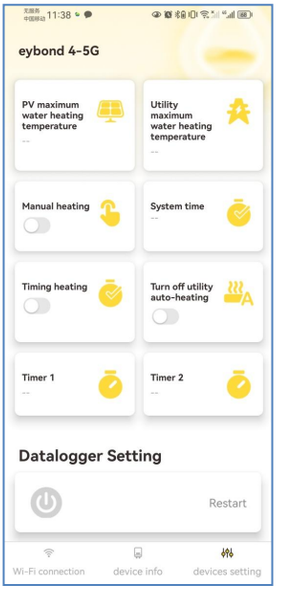


2.4.4 Wi-Fi Monitoring

- Enter my page, click Wi-Fi monitoring, enter the Wi-Fi connection interface;
- Click "System Settings" to open the WiFi list and select WiFi consistent with the data collector PN to connect;
- After connection, return to the Wi-Fi connection interface;
- On the device information interface, real-time parameter changes of the device per second can be monitored.
- In the device setting interface, a control item can be read/controlled.

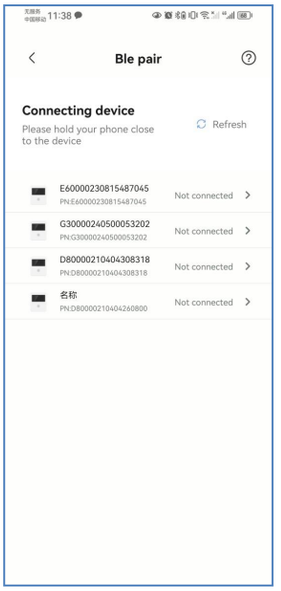


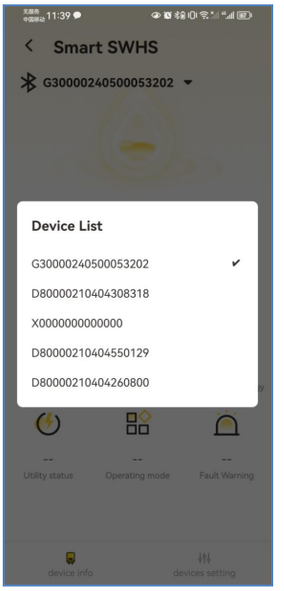


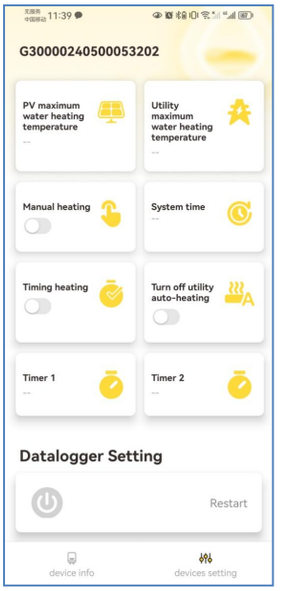


2.4.5 Bluetooth monitoring

- Enter my page, click Bluetooth monitoring, enter the connection device interface;
- APP scans nearby Bluetooth devices (make sure that the mobile phone turns on Bluetooth) and selects Bluetooth devices consistent with the data acquisition PN to connect;
- After the connection, it will enter the device information interface;
- On the device information interface, real-time parameter changes of the device per second can be monitored.
- In the device setting interface, a control item can be read/controlled.



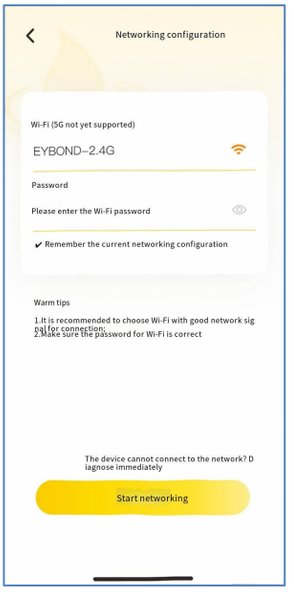


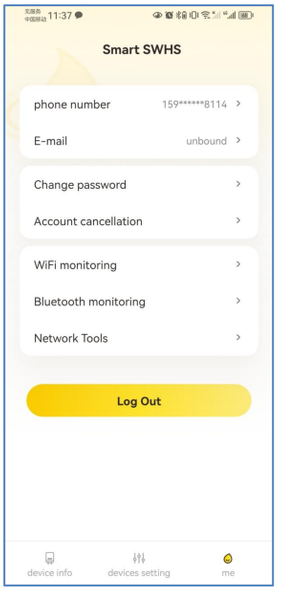


2.4.6 Distribution network tools

Entry 1: After adding the device through "Bluetooth Add", it will automatically enter the configuration network

Entry 2: Log in to APP and click "Networking Tools" on the "Me" page"

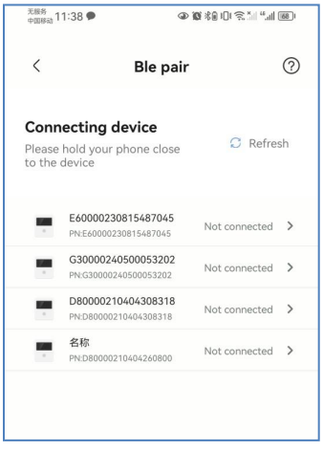




Distribution network process

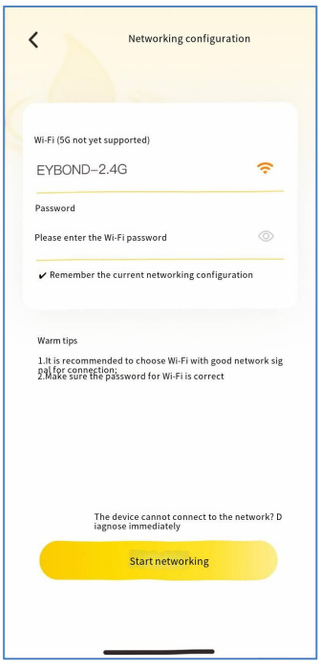
Step 1: The mobile phone is connected to the data acquisition device.

APP scans nearby Bluetooth devices (make sure that the mobile phone turns on Bluetooth) and selects Bluetooth devices consistent with the data collector PN to connect.



Step 2: Configure a network for the device

Click"  "Icon, select the router to be configured and fill in the password, and click the" Start Networking "button;





Note:

1. Please ensure that the signal connected to the network is good and the network is unblocked.

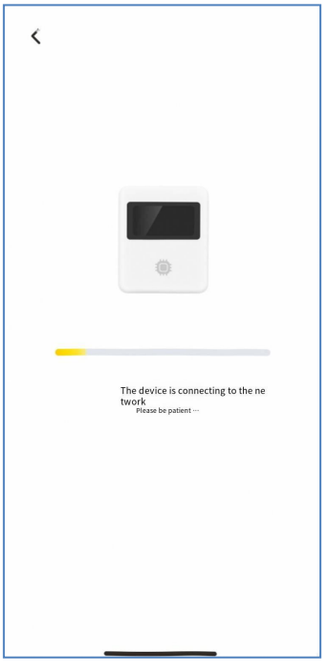
2. Currently, routers in 5G band are not supported, please use routers in 2.4G Band.

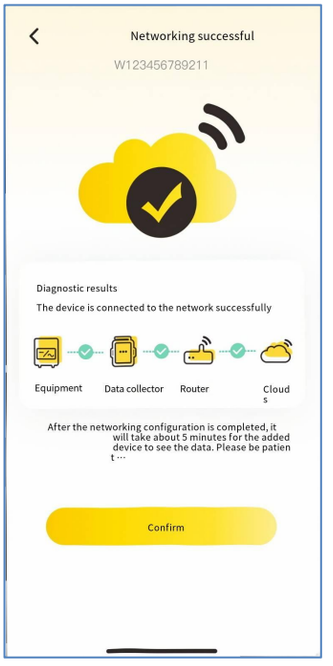
3. Make sure the router password is correct

Step 3: View Distribution Results

After entering the configuration, wait for 30s,APP will feedback information according to the distribution network result:

1. If the distribution network is successful, it means that the addition is successful. After waiting for about 5 to 10 minutes, the device data can be viewed normally;
2. If the configuration fails, troubleshoot the problem according to the diagnosis results and repair suggestions.





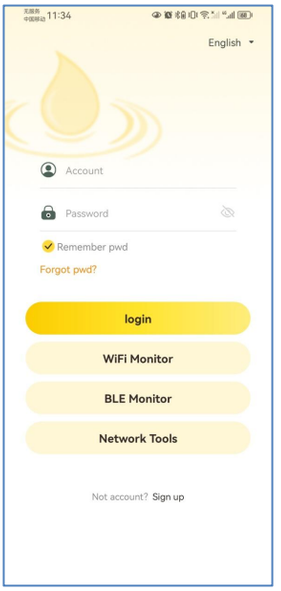
2.4.7 Logout

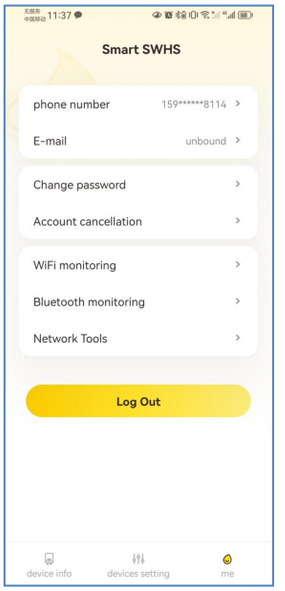
Click the "Logout" button to exit the current login account.

3. Wi-Fi Monitoring

Entry 1: APP login page, click the "Wi-Fi monitoring" button

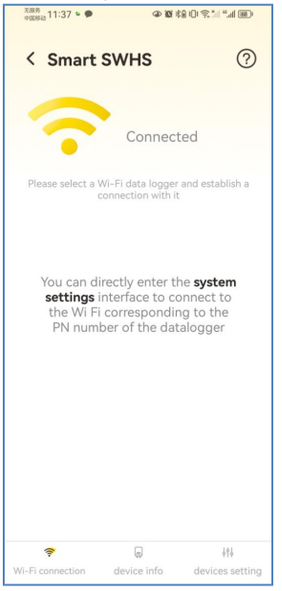
Entry 2: Log in to APP and click "Wi-Fi Monitoring" on the "Me" page"





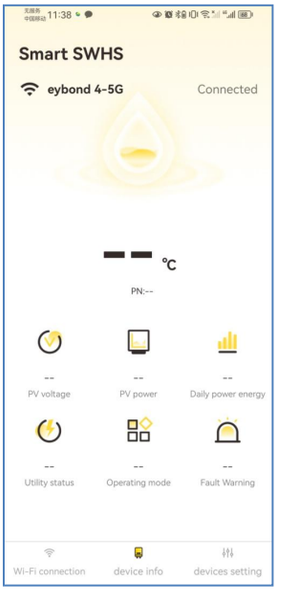
3.1 Wi-Fi connections

- Click "System Settings" to open the WiFi list and select WiFi consistent with the data collector PN to connect;
- After connection, return to the Wi-Fi connection interface;



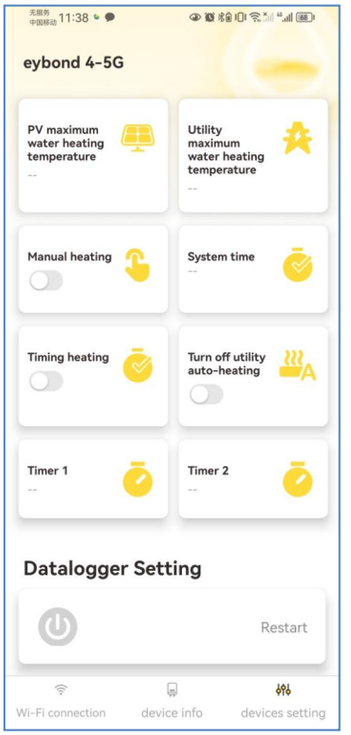
3.2 Device Information

After successfully connecting to the device WiFi, click the navigation "device information" at the bottom to enter the device information page



3.3 Device Settings

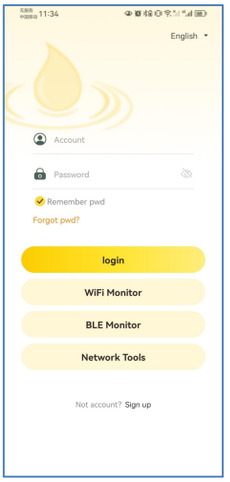
- On the device information page, click the "Device Settings" button in the navigation bar at the bottom to enter the device control interface;
- Device Control: Read/control

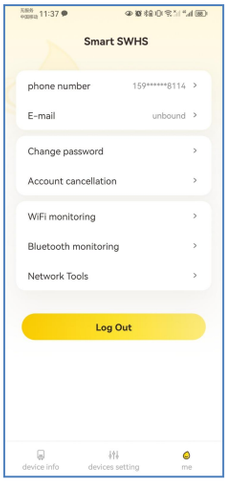


4.Bluetooth monitoring

Entry 1: APP login page, click the "Bluetooth Monitoring" button

Entry 2: Log in to APP and click "Bluetooth Monitoring" on the "Me" page"





4.1Device nearby

- Enter my page, click Bluetooth monitoring, enter the connection device interface;
- APP scans nearby Bluetooth devices (make sure that the mobile phone turns on Bluetooth) and selects Bluetooth devices consistent with the data collector PN to connect;
- After the connection, it will enter the device information interface;

4.2 Device Information

After successfully connecting to the device WiFi, click the navigation "device information" at the bottom to enter the device information page

- On the device information interface, real-time parameter changes of the device per second can be monitored.

4.3 Device Settings

On the device information page, click the "Device Settings" button in the navigation bar at the bottom to enter the device control interface;

- In the device setting interface, a control item can be read/controlled.

