

Datalogger Product Manual

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1.0	First release	Mico	2025-09-05	

Usage Statement

Dear Users:

Thank you for choosing our products. To continuously optimize your product experience, we will update our products based on technological iterations, function upgrades, and user feedback. Therefore, there may be differences between the APP operation screenshots, interface displays, and operation procedures in this manual and the actual APP version you are using. This is a normal phenomenon and usually does not affect your operation and use. Please refer to the actual product for details.

If you find any discrepancy between the content of this manual and the actual product, you can download the latest version of the manual through our official website or sales channels.

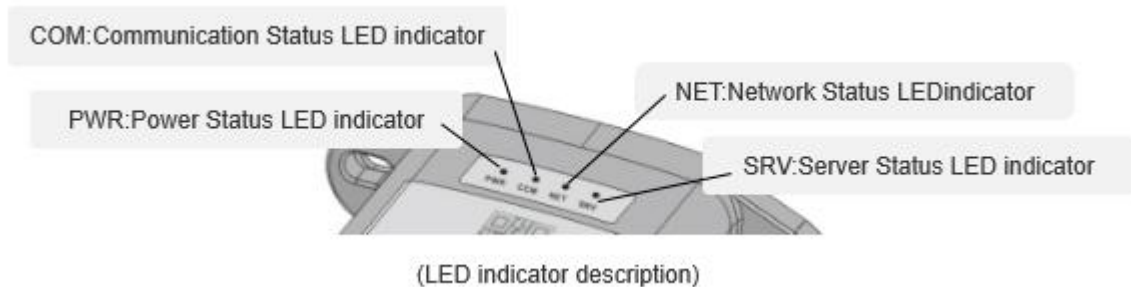
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1.Preparation

- 1.Ensure that the datalogger is reliably connected to the ports on the device.
- 2.The power indicator of the datalogger is on.

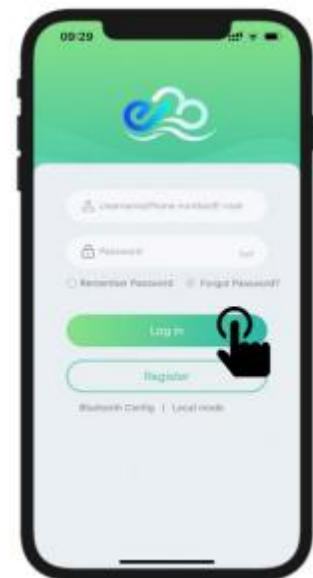


3.Network connection

3.1 Download APP

- (1) Scan the QR code, Download APP.

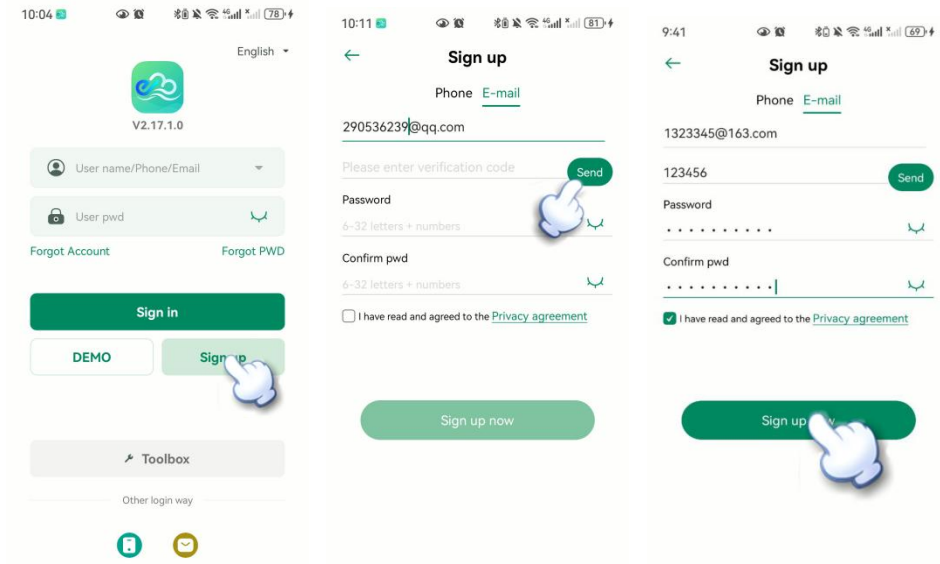
Scan the QR code to download the app



4. Login and register

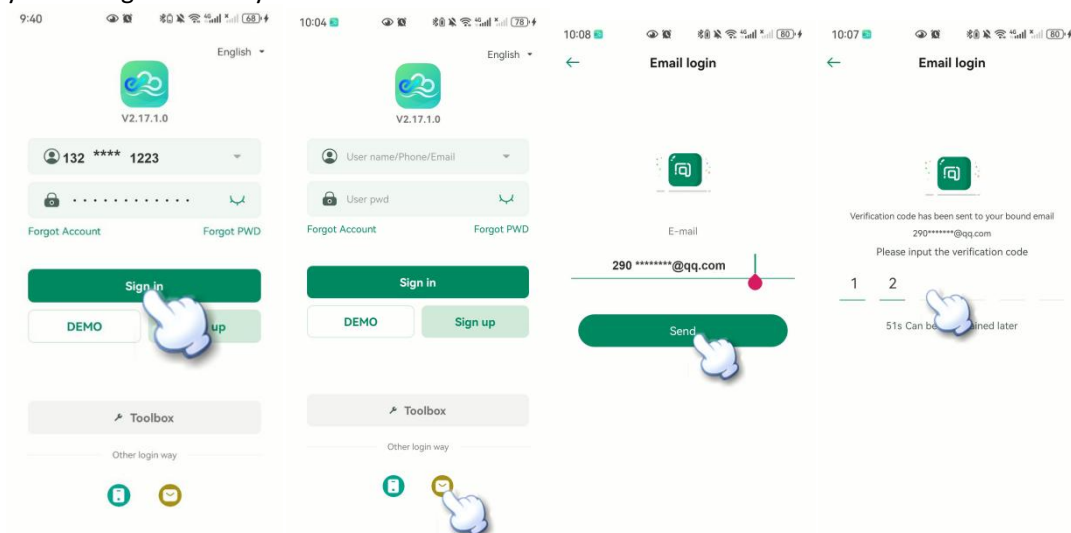
4.1 Sign up and Sign in

(1) Open the APP and click the "Sign up" button to enter the registration interface. After entering your mobile phone or email, click "Send". After entering the verification code and login password, click "Sign up now" to complete the account registration.



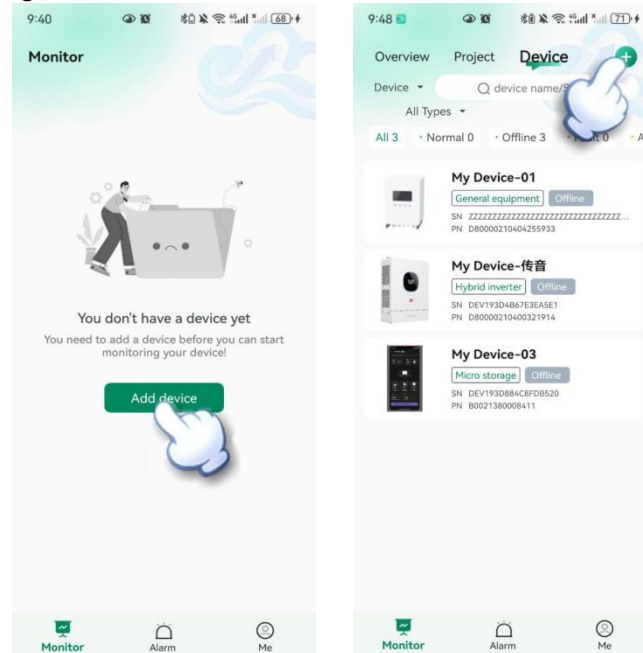
(2) Password login: Enter the e-mail address password you just used to register including the password, and click "Login".

(3) Verification code login: Click  Or  Icon, start the verification code login; Enter the mobile phone or email you used when registering and click "Send". After entering the verification code, you can log in to the system



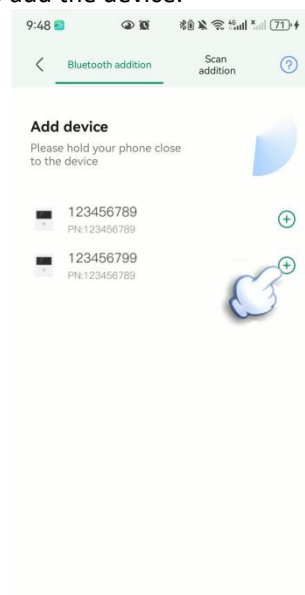
4.2. Add Device

(1) There are two methods for adding devices: Bluetooth addition and Scan addition. After logging in, on the monitoring page, click Add Device to enter the Add Device page. Or click the "+" button in the upper right corner to add a device.



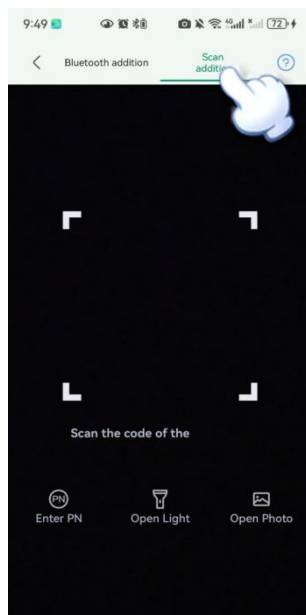
(2) Bluetooth Add (only supports devices with Bluetooth module)

Allow the App to enable Bluetooth and location permissions when using the Bluetooth addition feature. Make sure that after the device is powered on, select the same device as the PN, click the "+" icon, and click "OK" to add the device.



(3) Sweep Code Add

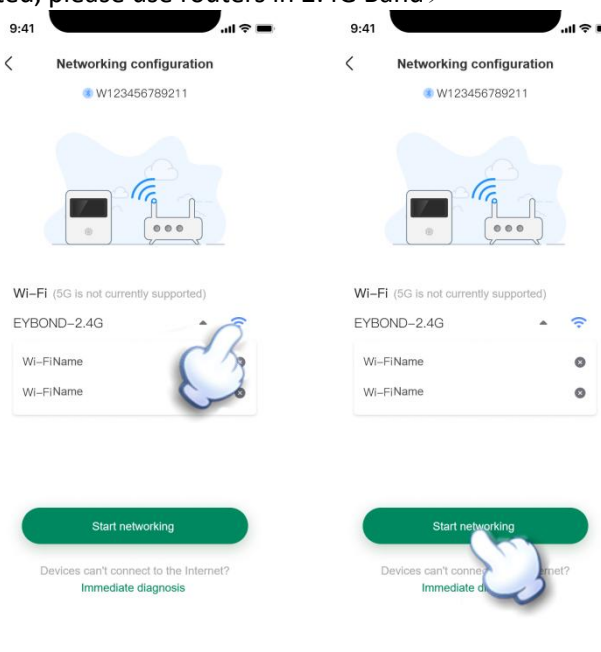
Click "Scan addition" to scan the two-dimensional code of the number sampler or click "Enter PN" in the lower left corner to enter the number sampler PN to complete the addition of equipment.



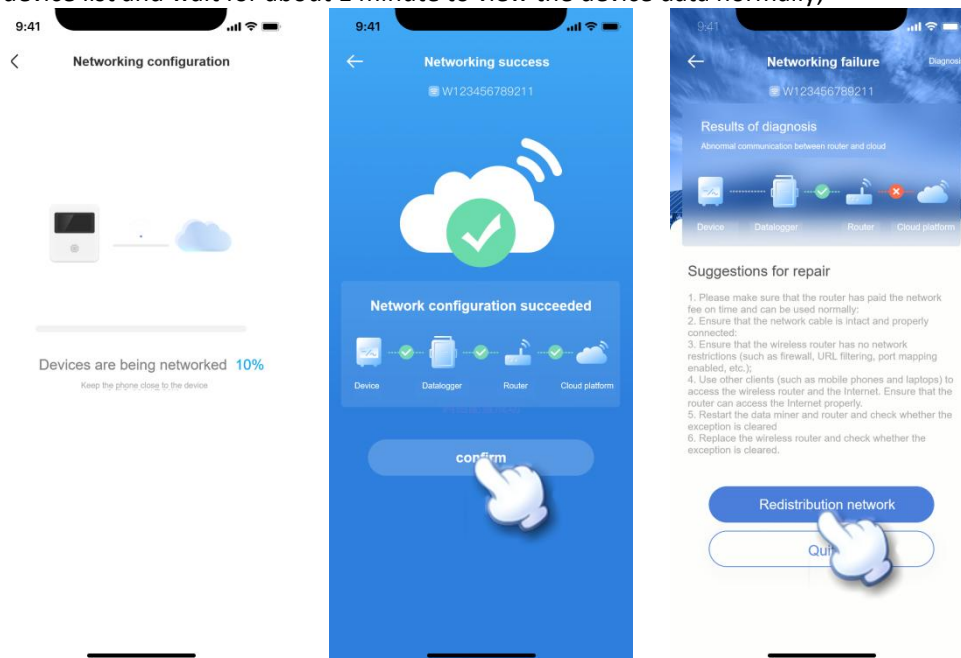
4.3. Networking configuration (Bluetooth distribution network)

1、After the equipment is successfully added, the data acquisition device containing the Wi-Fi BLE module will automatically enter the "networking configuration" interface.

2、Click "Wi-Fi" icon, select the router to be configured, enter the corresponding password, and click the "Start Networking" button; (Currently, routers in 5G band are not supported, please use routers in 2.4G Band)



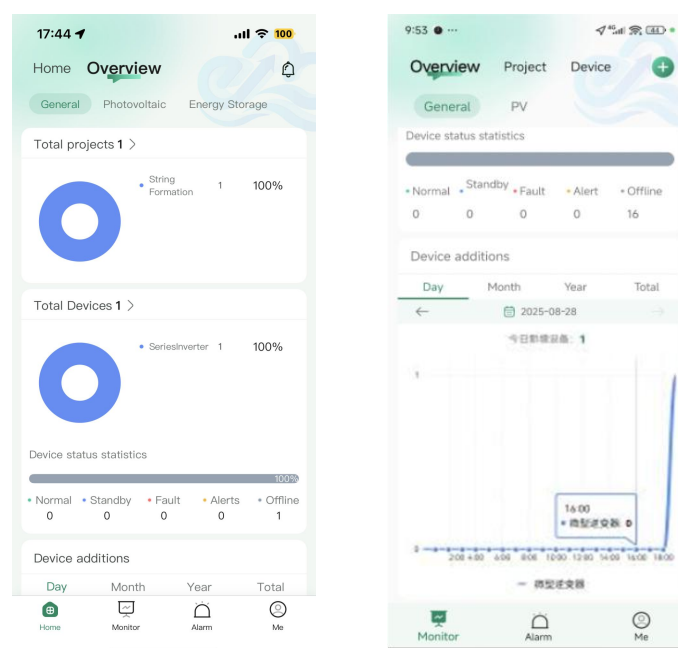
3、After entering the configuration, wait for 10s, APP will feedback information according to the distribution network result. If the distribution network is successful, click "confirm" to return to the device list and wait for about 1 minute to view the device data normally;



*If the configuration fails, view the "diagnosis results and repair suggestions", and click "reallocate network" after troubleshooting.

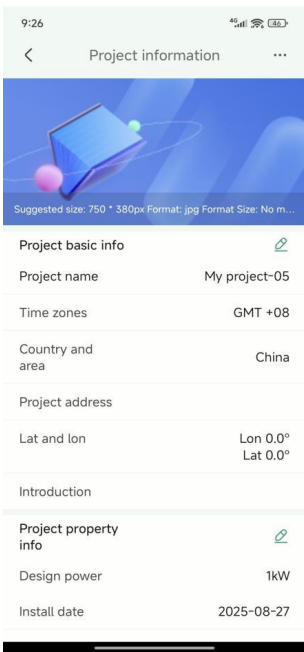
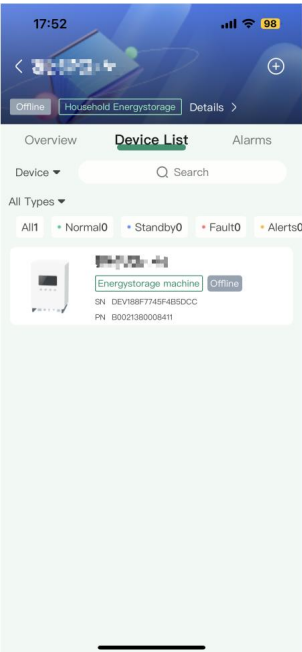
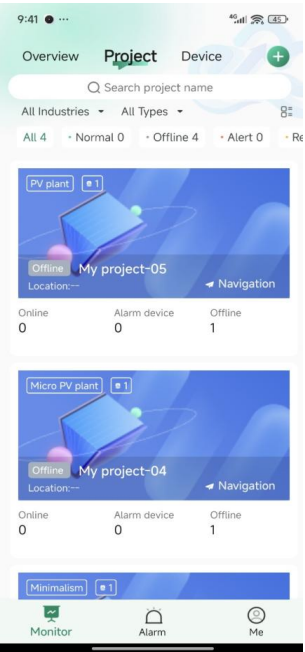
4.4 Viewing Data

After the data collector is successfully added, tap "Overview" to return to the Summary Interface. This interface displays the overall data of the account, allowing users to intuitively view results of multiple data types—especially data with business correlations, such as statistical information on industries, projects, devices, and alarms.



4.4.1 Viewing Project Information

Tap "Projects" to manage all projects under the account. Tap a "Project Name" to access the corresponding project page and view the device information under that project; tap "Details" to enter the "Project Information" page and view the basic information of the project.

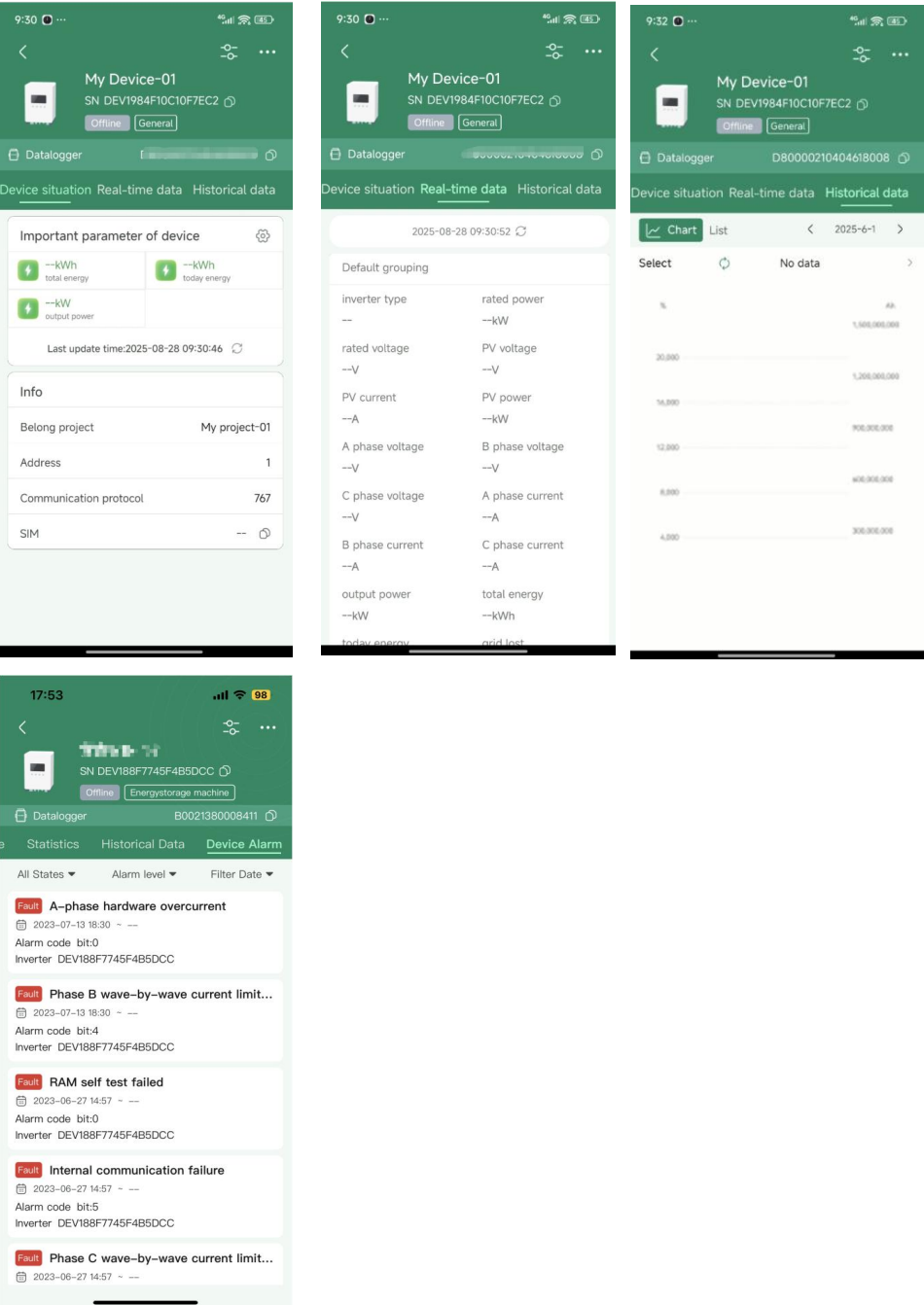


4.4.2 Viewing Device Information and Alarms

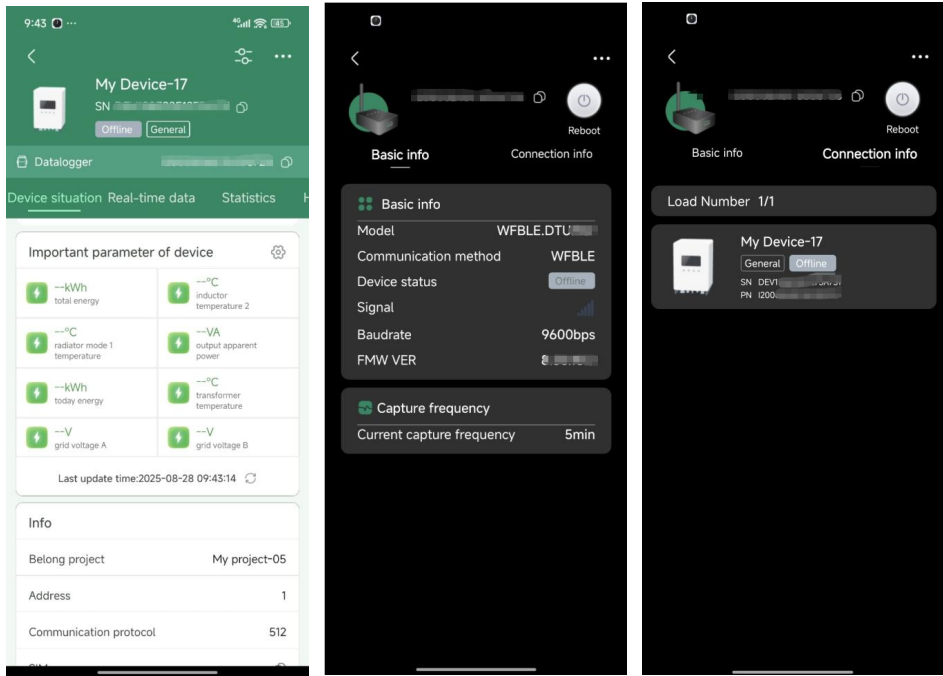
(1) Tap "Devices" to view the current status and information of the devices. The device statuses include: "Online", "Offline", "Malfunction", "Alarm", etc. If the current status of the device is "Normal", it will display the "Normal" status.



(2) Tap the "Device Name" to enter the Device Details page, where you can view the current device overview, real-time parameters, historical data, and device alarms.



(3) Click "Associated Data Collector" to enter the Data Collector Details Page. Here, you can view the basic information and connection information of the data collector, and also perform a restart operation on it.

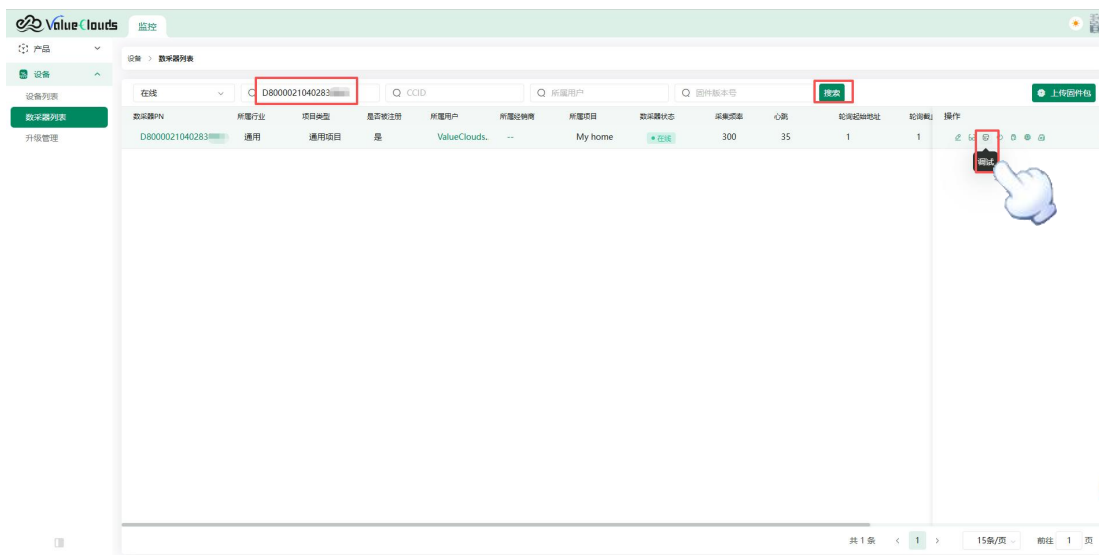


5.Common Failures

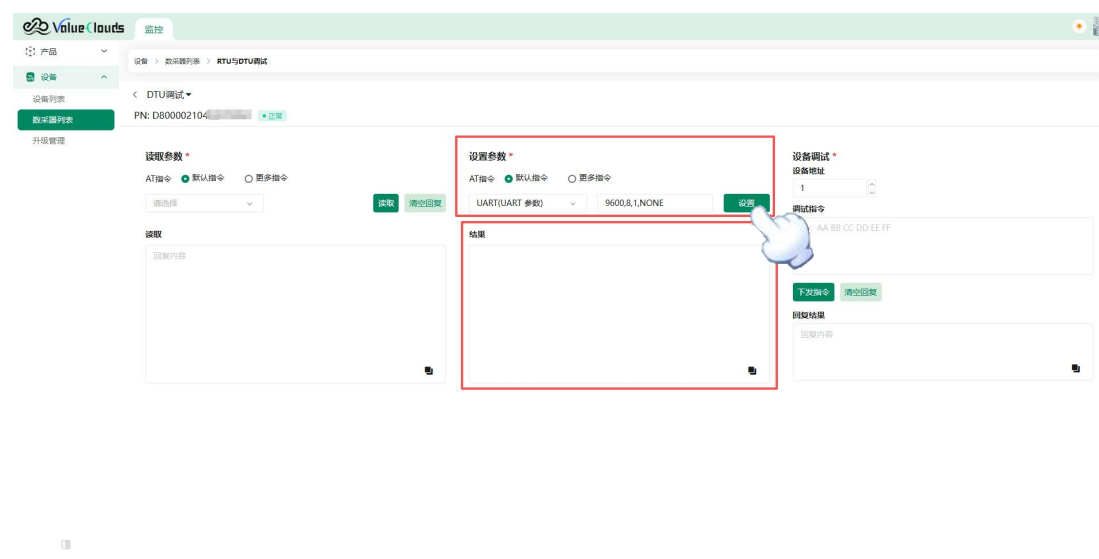
5.1 AT Command Parameter Setting

For example: PC-side webpage (ValueCloud), URL: <http://www.valueclouds.com>

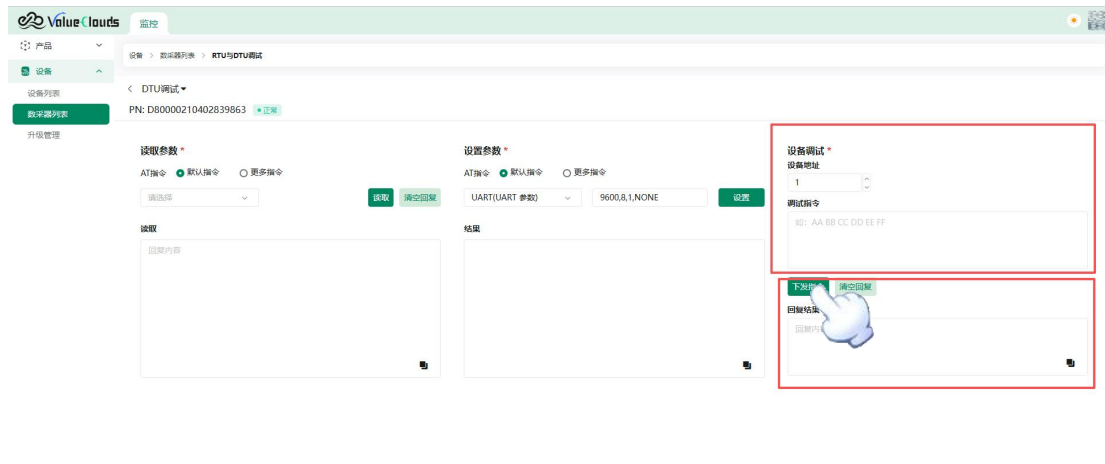
(1) On the "Data Collector List" interface, click the "Debug" button;



(2) Enter the "DTU Debugging" interface. In the "Parameter Setting" section, select UART (UART Parameters), and set the corresponding baud rate parameters for the device. For example, enter "9600,8,1,NONE", click "Set", and wait for the response. If the response result is "AT+UART:W000", it indicates successful setting; if the response is "AT+UART:W001", it means the setting failed. In this case, check whether the network connection is normal or verify the correctness of the command (Note: Use English symbols).



(3) In the "Debug Command Box", enter a hexadecimal command for the device, such as "01 03 00 00 00 64 44 21", click "Send", and wait for the response. If the response is the corresponding data returned by the device, it indicates successful serial port debugging; if there is no response, it means the serial port debugging failed. In this case, check the serial port connection or verify the correctness of the command (Note: Use English symbols).



5.2 Common AT instruction tables

ID	Command	Description
1	AT+CLDSRVHOST1?\r\n	Query the remote server
2	AT+CLDSRVHOST1=iot.eybond.com,18899,TCP\r\n	Setting up the Remote Server
3	AT+DTUPN?\r\n	Query the DTU_PN number
4	AT+DTUTYPE?\r\n	Query the type number of the DTUs
5	AT+FWVER?\r\n	Check the firmware version number
6	AT+HTBT?\r\n	Send heartbeat command
7	AT+HWVER?\r\n	Query the hardware version number
8	AT+RESET=S\r\n	program reset
9	AT+UART=9600,8,1,NONE\r\n	Set the serial port parameters
10	AT+WFLKAP?\r\n	Query the information of the AP to connect to
11	AT+WFLKAP=wifi_test,AES,WPA2_PSK,87654321\r\n	Set the information for the AP to connect to
12	AT+WFSS?\r\n	Query the signal value of the AP to be connected

6.Common Failures

When you encounter the following problems, please refer to the following solutions first. If the problem is still not resolved, please contact our after sales staff.

Phone: +86-755-89992588

Email: market@eybond.com

The following table lists some basic problems that may be encountered during operation, we provide some basic solutions.

FAQ	CauseAnalysis	Workaround
Configuration Failure	1. The router is not connected to the internet 2. Damaged network cable or abnormal connection 3. Router access restriction 4. Unstable network or router compatibility issue	1. Confirm that the router can access the internet normally 2. Check the network cable connection 3. Turn off restrictions such as firewall and filtering 4. Restart the device or replace the router
Data Acquisition Device Offline	1. Wi-Fi not connected correctly 2. Incorrect Wi-Fi account or password 3. Weak signal	1. Confirm that the local router has been configured 2. Check the Wi-Fi account and password 3. Check the signal strength, and adjust the position or install a signal booster if necessary
The data acquisition device is online, but the equipment is offline	1. Incorrect setting of the device communication address 2. The device is not powered on 3. Poor contact of the communication line 4. Mismatched device protocols 5. Device malfunction	1. Check if the device communication address is set to 1 2. Confirm that the device is normally powered 3. Check if the communication cable is properly plugged in 4. Verify that the device protocols are consistent 5. Replace the device to test whether it is a hardware fault
Unstable network connection or frequent disconnections	1. Poor router performance 2. Strong signal interference 3. Insufficient network bandwidth	1. Replace the router for testing 2. Adjust the position of the data acquisition device 3. Avoid interference from other wireless devices
Other unsolvable anomalies	Contact the manufacturer's after-sales service and provide information such as the equipment model and error prompt.	

7.Precautions

- (1) Installation: Please ensure that the logger and equipment are firmly installed to prevent the product from being unable to carry out normal collection work;
- (2) Environment: The data receiver needs to be installed in a place where there is no strong electrical
- (3) Transportation: do not be squeezed by heavy objects during transportation, and the packaging is intact;
- (4) Storage: Avoid placing in a wet place, do not immerse in water.

FCC warning statements:

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.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

The device has been evaluated to meet general RF exposure requirement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.