W4G Stick Datalogger Quick Installation Manual

Version: 1.1

Delivery Content
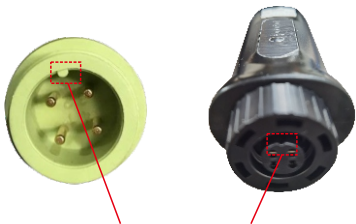
- 1 W4G stick
- 1 Quick Installation Manual

1 Install the datalogger

1.1 Install the datalogger

Connect the datalogger to the corresponding 4-pin COM port of the inverter. A Solis 5K inverter is used here as an example.

Please follow the instructions below:

Match the joint

Install the datalogger:

Step 1: Match the joint, and then insert the datalogger to the inverter COM port.
Step 2:Rotate the black ring in clockwise.

① ②

📖 **NOTE**

Only rotate the black ring at the connection end, not rotate the main body.

1.2 Install with multiple inverters

If you need to collect data from multiple inverters, please follow the inverter user manual to establish a communication connection with the inverter using the RS485 communication cable in a "daisy chain" manner.

| Inverter 1 | Inverter 2 | ... ... | Inverter n |
| RS485 | RS485 | | RS485 |

Daisy chain connection of multiple inverters

COM
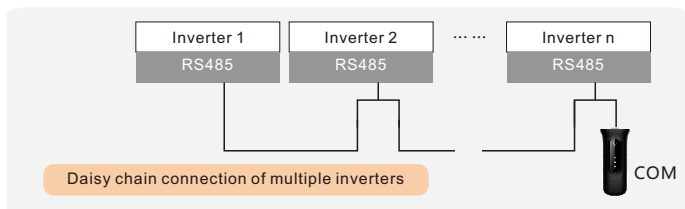
After the datalogger is installed on the inverter, if the inverter is powered on, you need to set the inverter slave address, the default slave address of the inverter is 01, and each inverter on the communication circuit needs to be assigned with different slave address(like 01,02,03,04…).

📖 **NOTE**

The device must be installed away from the strong magnetic field produced by large electrical appliances such as microwave oven, refrigerator, telephone, metal walls, etc. Otherwise, the communication quality may be affected. It may also be affected by lighting storm.

2 LED and Button

LED Lights Status:

LED indicators	Description	LED Status	Meanings
Internet Indicators ● (NET)	Shows the connection status between the datalogger and the server.	Flashing	Trying to connect with server
		ON	Successfully connected
		OFF	Abnormal connection
Inverter COM Indicators ●(COM)	Shows the connection status between datalogger and the inverter.	Flashing	Trying to connect with inverter
		ON	Successfully connected
		OFF	Abnormal connection
Power Indicator ●(PWR)	Shows the power supply status of the datalogger.	ON	Datalogger is powered up normally
		OFF	Datalogger is powered up abnormally

Button Instruction:

The [RESET] button on the back is used for connection.

·Short press will send the data immediately.

·Long press for over 10 seconds until only the red light is on will reset the connection and clear the network configuration records.

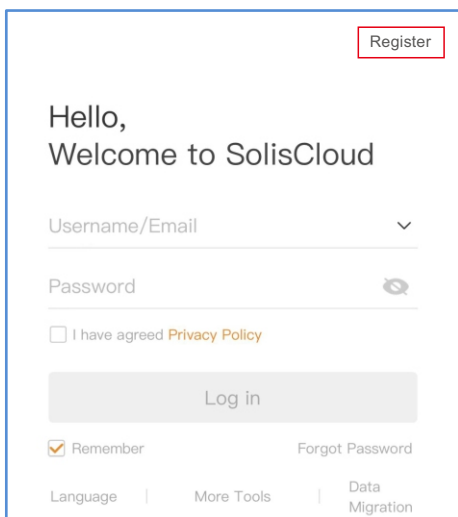Internet Indicators color: green means wifi mode,blue means 4G mode.

The three constantly ON LED lights indicate the datalogger is working normally.

3 Create the SolisCloud Account

Step 1: Use you phone to scan the SolisCloud to download and register the APP. Or directly download from APP Store or Google Play Store by searching "SolisCloud".

SolisCloud

Step 2: Click the "Register".

Hello,
Welcome to SolisCloud
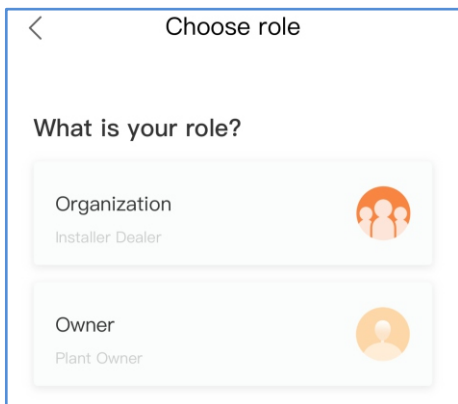
Username/Email

Password

☐ I have agreed Privacy Policy

Log in

☑ Remember   Forgot Password

Language | More Tools | Data Migration

Step 3: Select Owner or Organization for email address registration.

< Choose role

What is your role?

Organization
Installer Dealer

Owner
Plant Owner

Step 4: Enter the email to get the verification code, than enter your account and password, last click the "Register".

Owner Register

Organization

Note: If your organization has registered an account in SolisCloud, you do not need to register again. Please contact the administrator to add you as a sub-organization or member in organization management.

* Organization (Company) Name

Input 2 to 60 characters

* Registration Method

Input email

Input verification code — Send

* User Name

Enter username

* Password

Password

Password Strength: ▬▬▬ ▬▬▬ ▬▬▬ ❓

* Confirm Password

Enter password again

* Organization Code

Register

Organization Register

4 Network Configuration

The default network mode of the device is to prioritize WiFi mode.
When there is no WiFi or weak WiFi signal, the network mode will be automatically switched to 4G communication (if the 4G signal is weak, it will be reduced to 2G for communication).
When the WiFi network is restored, the WiFi communication will be automatically switched back.

If you only need to use 4G mode to communicate, please refer to the **4.1 4G Configuration**.
If you only need to use WiFi mode to communicate, please refer to the **4.2 WiFi Configuration**.
If you need the device's mode to switch between 4G and WiFi depending on the network conditions, please perform the **4.1 4G Configuration**, and then refer to the **4.2 WiFi Configuration**.

4.1 4G Configuration

If the logger you purchased includes SIM card, no additional configuration required.
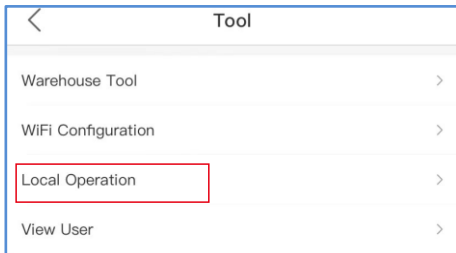If the logger you purchased excludes SIM card, you need to buy a separate SIM card from your local carrier and install the SIM card manually.
Some SIM cards will automatically recognize APN, if it cannot be connected normally, please follow the following steps to set the APN.
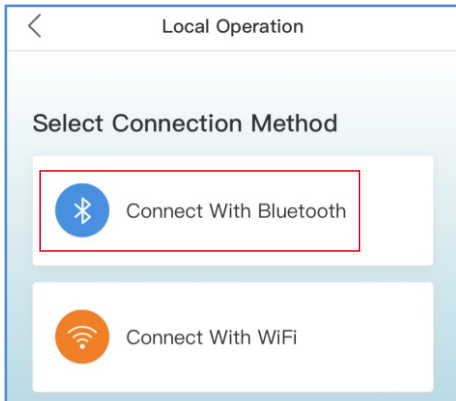
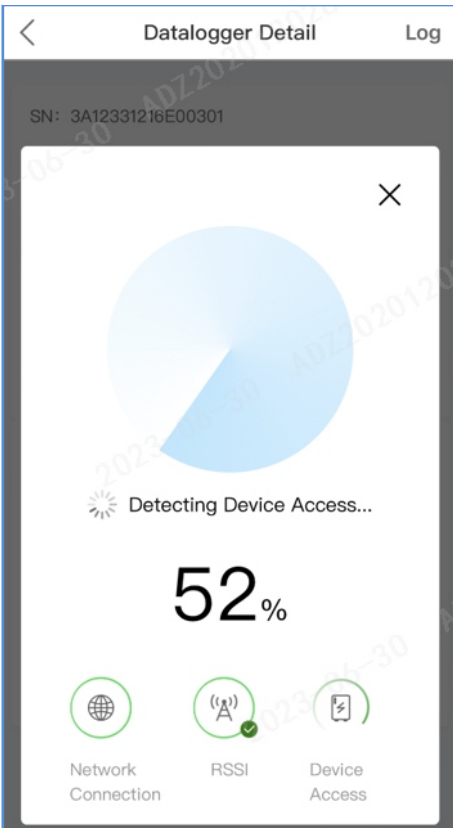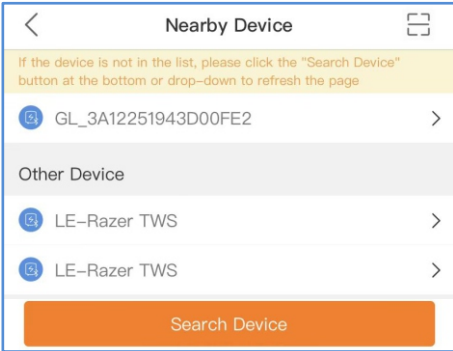Step 1:Log in to SolisCloud, then Click the "Me-Tool".
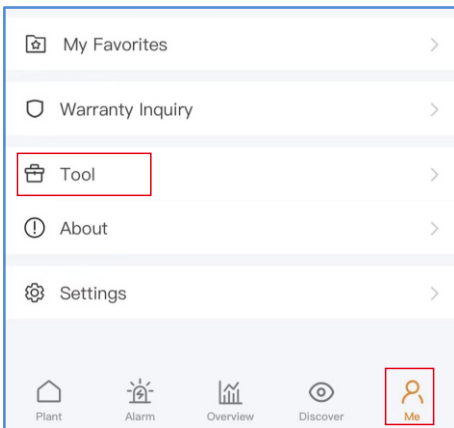
Step 2: Click the "Local Operation".

Step 3: Click the "Connect With Bluetooth".

Step 4: Select the Device and enter into the detail
page.

Nearby Device

If the device is not in the list, please click the "Search Device"
button at the bottom or drop-down to refresh the page

GL_3A12251943D00FE2 >

Other Device

LE–Razer TWS >

LE–Razer TWS >

Search Device

Datalogger Detail   Log

SN: 3A12331216E00301

×

Detecting Device Access...

52%

Network   RSSI   Device
Connection   Access

Step 5: Click the "View more-Setting" at the bottom to enter the setting page.

Datalogger Detail   Log

SN: 3A12331216E00301

Complete

Rediagnosis

Online
Status

RSSI

w4g
Network Mode

1 >
Access Device

View more >

Setting   Log

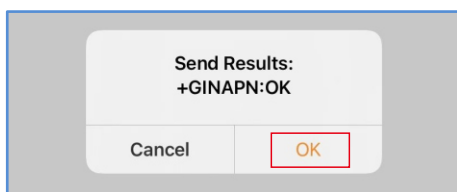| Product Sn | 3A12331216E00301 |
Firmware Version	50010111
Model Number	0128
Power-On Time	46m24s
Total Operation Time	16h41m24s
RSSI	29
RSSI	4
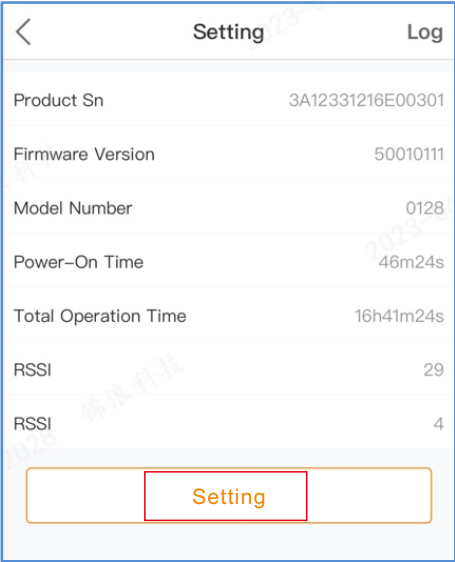
Setting

Step 6: Click the "APNSetting".
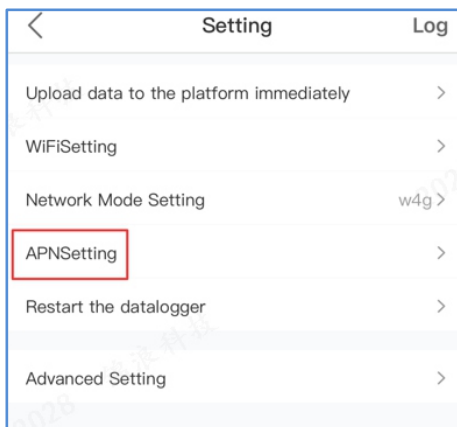
Step 7: Enter the APN, User Name and Password(If APN is no User Name and Password, unnecessary to fill in). Then click the "Save".
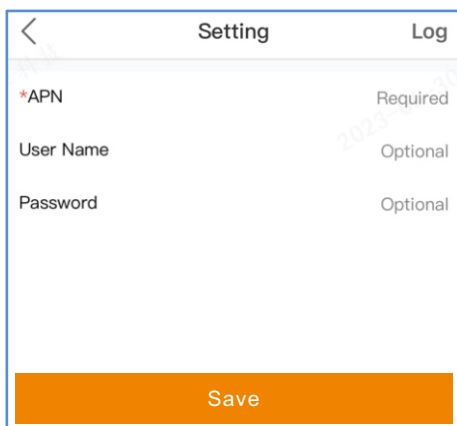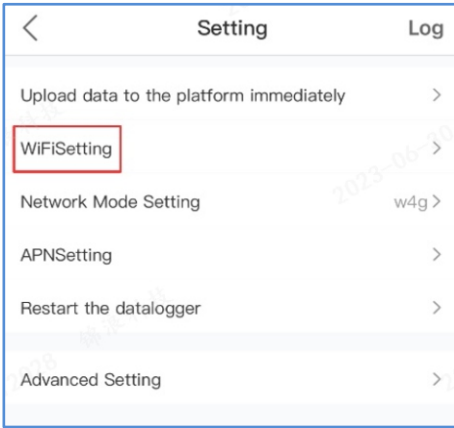

Step 8: If the prompt is OK, Configuration Complete.

📖 **NOTE**

Please check APN, User Name and Password carefully. The wrong APN, User Name and Password will also prompt OK.
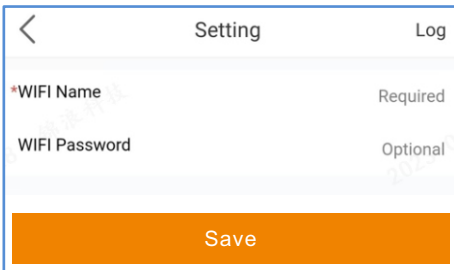
4.2 WiFi Configuration

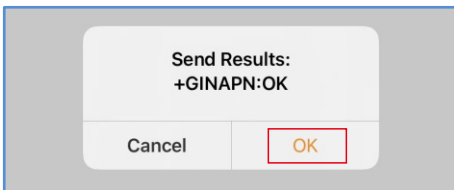Step 1-5 are same with 4.1 4G Configuration. Please refer to it.
Step 6: Click the "WiFiSetting".

Step 7: Enter the WiFi name and WiFi password. Then click the "Save".

Step 8: If the prompt is OK, Configuration Complete.

📖 **NOTE**

Please check WiFi name and password carefully. The wrong name and password will also prompt OK.

5 Change the Password

For security reasons, you are advised to change the password of the data logger access point, which is also the login password of the website 10.10.100.254.

Step 1: The wireless device(mobile phone or laptop) connects to the datalogger hotspot(Solis_serial number). The default password is 123456789.
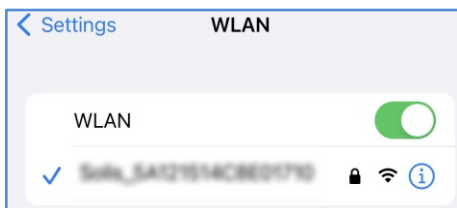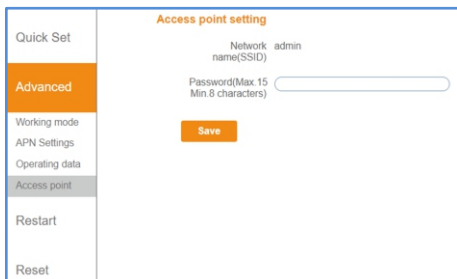

Step 2: Enter 10.10.100.254 in the web browser when the router is not connected, open the following configuration interface.
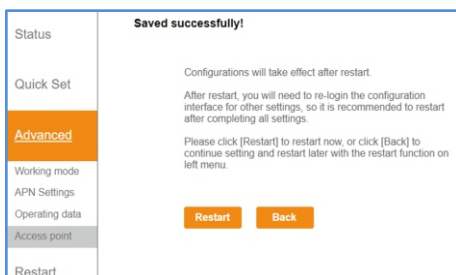Enter Username admin and Password 123456789.
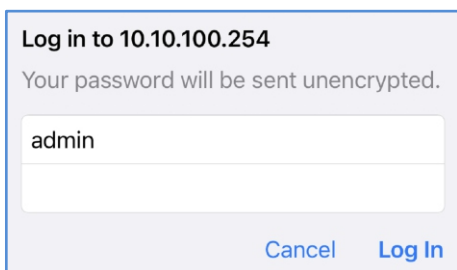
Step 3: Select the "Advanced- Access point ", enter the new password and then click the "Save".
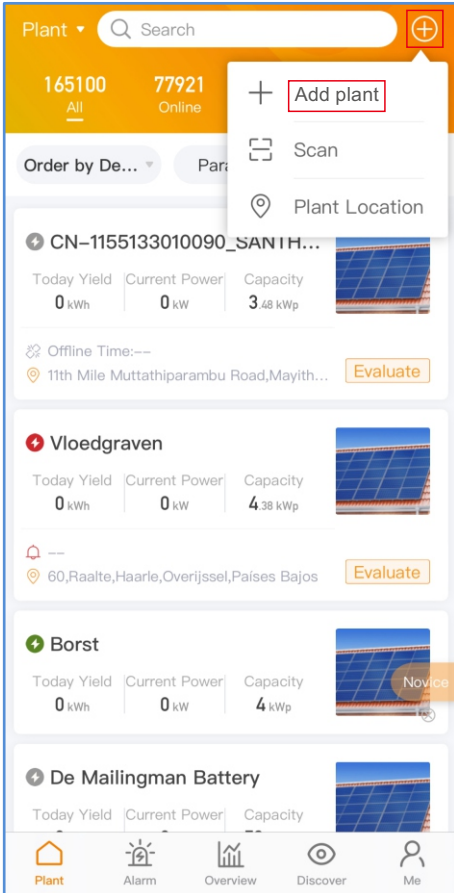
Step 4: Configurations will take effect after restart. Please click the "Restart" to make the setting effective.

6 Create Plant

Step1: Enter the main page of Solis Cloud APP, click "+"at the top right corner and select "Add plant" .

Step 2: Input the information of the plant as required.
Then click "Next".

Step 3: Add more information. "Click the "Create Plant".

Step 4: Click "View plant" to enter the plant homepage , then add the datalogger.
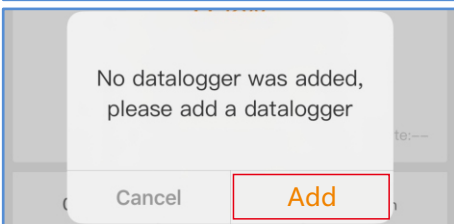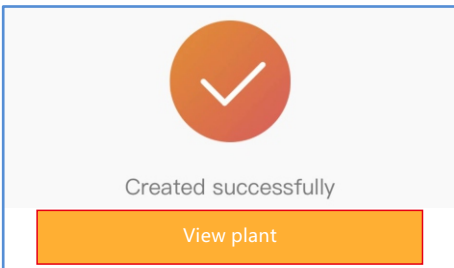
Step 5: Scan the SN number of the datalogger or manually input it.

Note: Scan the datalogger SN, NOT the inverter SN.

Step 6: Plant creation succeeds. Click "Continue to bind" to check the monitoring data. If the plant has multiple dataloggers, please click "View Plant".

Bound Successfully

| Continue to bind | View Plant |

7 FCC Certification

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.

FCC warning:
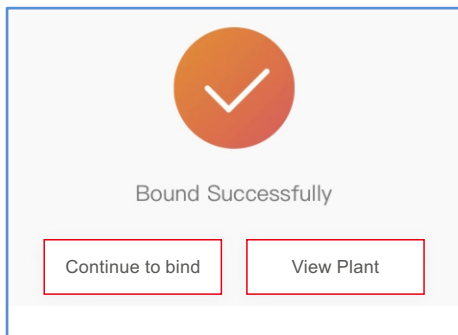Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 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.

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.

Contact
Please contact us if you have any technical
problems in terms of the product. Please provide
the following information as well:
- ◆ Inverter SN
- ◆ Datalogger SN
- ◆ Problem Description

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