



# Solis Wi-Fi/LAN Stick Data Logger Quick Installation Guide

For S2-WL-ST(4Pin) / S2-WL-ST(USB)

Version: 2.0



## Delivery Content

- Wi-Fi/LAN Stick x1
- Quick Installation Guide x1

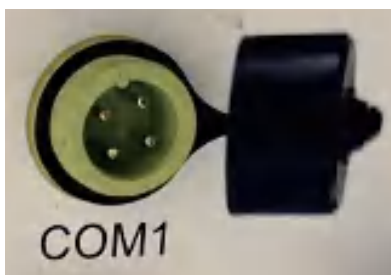
## NOTICE

The contents of this manual may be updated from time to time due to product version upgrades or other reasons. Please refer to the actual product if this manual does not match the actual product.

# 1 Install

First, locate the COM/Logger port on the bottom of the inverter. This port will be protected by a black plastic cap. Do not lose the cap as it should be reinstalled if the logger is ever removed.

1. Twist the cap counterclockwise until it comes off.
2. Leave the cap hanging so that it can be replaced if the logger is ever removed.



COM port cap (4-pin version)

1. Pinch the two tabs on the sides of the black plastic cap.
2. Pull down on the cap until it comes off.
3. Store the cap for later.



COM port cap (USB version)

## 1.1 Connect the 4-pin logger to the inverter

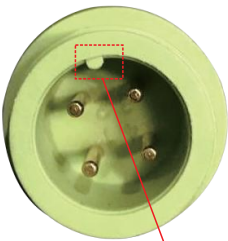
1. Insert the logger into the port - be sure the LED lights are facing forward.
2. Push up on the logger and begin to twist the lock ring clockwise.
3. Continue twisting until the connection feels snug the lock ring cannot twist anymore.



1



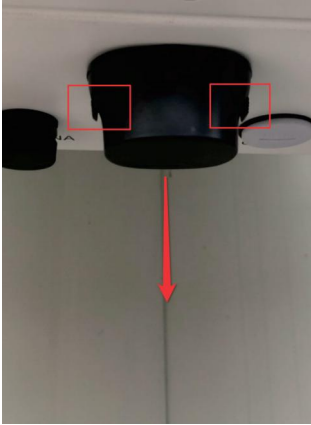
2



Match the joint

## 1.2 Connect the USB logger to the inverter

1. Insert the logger into the port - be sure the LED lights are facing forward.
2. Push up on the logger and align the port tabs so that they fit into the logger slots.
3. You will feel a click once this happens. To remove the logger, pinch the tabs at the same time and then pull down on the logger until it comes out.



1



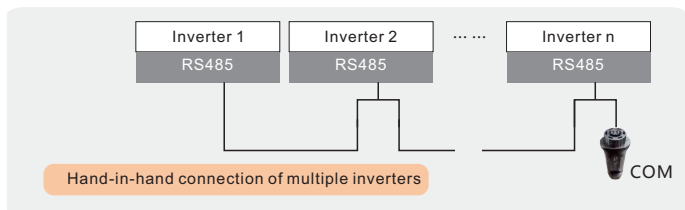
2



Match the joint

### 1.3 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 "hand-in-hand" manner.



After the data logger 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...).

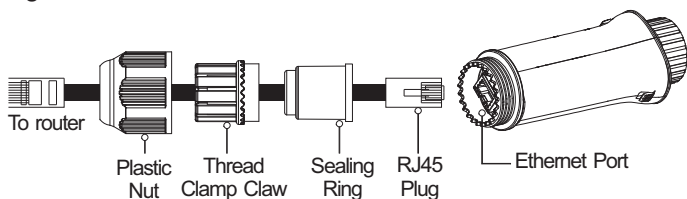
#### **NOTE**

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 lightning storm.

## 1.4 Install the network cable (Only applied to LAN Configuration)

Step1: Remove the “Plastic Nut”, “Thread Clamp Claw”, and “Sealing Ring” in turn.

Step2: Pass the network cable plug through the “Plastic Nut”, “Thread Clamp Claw”, and “Sealing Ring” (with opening) in the direction as shown in the figure below.



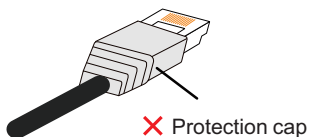
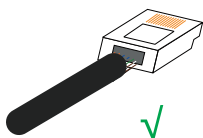
Step3: Fully embed the “Sealing Ring” into the “Thread Clamp Claw”.

Step4: Connect the “RJ45 Plug” to the data logger and tighten the “Plastic Nut”.

Step5: Plug the other end of the network cable into the router and ensure the router is on.

### NOTE

Due to limited space, only RJ45 plug without protective shell can be used.



The diameter of the network cable connection end on the data logger is about 3.5mm after it is completely fastened. The network cable is required to be circular or oval, and the diameter of the network cable needs to be greater than 4mm in order to be properly sealed.

# 2 LED and Button

## 2.1 LED Lights Status

LED indicators	Description	LED Status	Meanings
Internet Indicators ● (NET)	Shows the connection status between the data logger and the server.	Flashing	Trying to connect with server
		ON	Successfully connected
		OFF	Abnormal connection
Inverter COM Indicators ● (COM)	Shows the connection status between data logger 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 data logger.	ON	Data logger is powered up normally
		OFF	Data logger is powered up abnormally

When all three lights are on, it means that the data logger is working normally. Otherwise, please contact the manufacturer's customer service.

## 2.2 RESET Button Instruction

Operation	Instruction
Short press	Send an inverter real-time data to SolisCloud.
	Reconnect to the network when the logger's network is disconnected.
Long press for over 10 seconds (release when the yellow and green lights go out)	Restore factory settings to erase memory data and network configuration information. (network reconfiguration is required after reset).

# 3 Create the SolisCloud Account

Step 1: You can download the SolisCloud mobile APP by scanning the QR code or searching "SolisCloud" from APP Store or Google Play Store.



## NOTE

We strongly recommend that you download the latest version of the SolisCloud APP before proceeding to the next step to match more features.

Step 2: Tap "Register".

A screenshot of the SolisCloud mobile app's login and registration screen. The background is orange with a faint pattern of solar panels. On the right, there is a cartoon mascot character with orange hair, wearing a white suit and a tie. The text "Hello! Welcome to SolisCloud" is displayed on the left. Below this, there is a white login form with the following elements: a "Username/Email" input field with a dropdown arrow; a "Password" input field with an eye icon; a "Remember" checkbox; a "Forgot Password" link; a "Log in" button; a checkbox for "I have agreed Privacy Policy"; and a "Register" button highlighted with a red border.

Step 3: Select Owner or Organization for registration.

A screenshot of the "Select Role(1/3)" screen in the SolisCloud mobile app. The screen has a white background with a blue header bar containing a back arrow and the text "Select Role(1/3)". There are two main selection options: "Organization" (Installer Dealer) with an orange icon of a person and a gear, and "Owner" (Plant Owner) with a green icon of a person and a plant.



Step 4: Enter your email address and input the verification code you received, then set a username and password to complete the registration.

< Organization(2/3)

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.

\* Registration Method

100S

\* I have agreed [Privacy Policy](#)

Previous Next

< Organization(3/3)


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.

\* Email

\* Organization (Company) Name


\* User Name

\* Password




Password Strength:    ?

\* Confirm Password



\* Organization Code

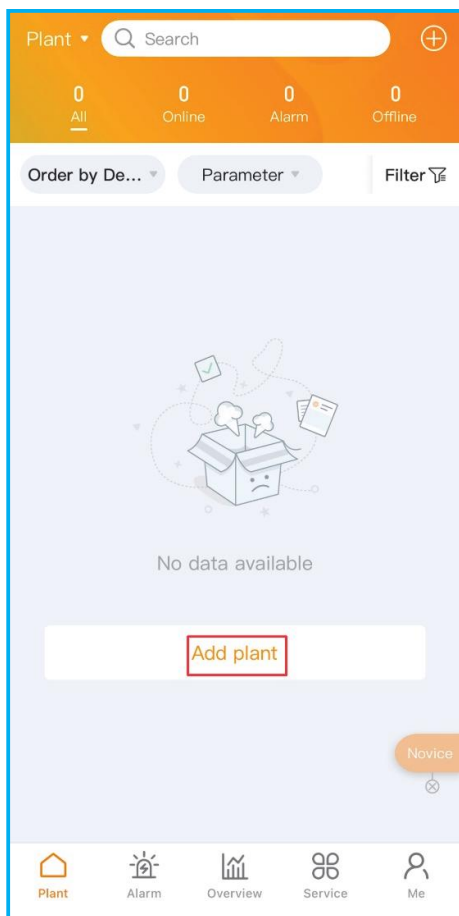


Previous Register

Step 5: Registration is completed.

# 4 Create Plant

Step 1: Enter the home page of SolisCloud APP, tap “Add Plant” in the middle of the page.



Step 2: Enter the plant details and then tap “Next”.

**Add Plant**

1 — 2 — 3 — 4  
Basic Information    Tariff Managem...    Associate account    More Information

\* Plant Name

\* Plant Type    Residential >

\* Capacity(kWp)

\* Area

\* Plant Address

\* Time Zone    (UTC+08:00) PRC >

\* Currency    USD >

Organization Code    Input Organization Code >

**Next**

**Add Plant**

✓ — 2 — 3 — 4  
Basic Information    Tariff Managem...    Associate account    More Information

Feed-in Tariff

\* Tariff Type    Fixed Tariff >

\* Tariff(USD/kWh)

Previous    **Next**

Company Tariff >

**Add Plant**

✓ — ✓ — 3 — 4  
Basic Information    Tariff Managem...    Associate account    More Information

Add Guest ?

Previous    **Next**

Step 3: After entering the required information, tap “Create Plant”.

**Add Plant**

Basic Information ✓ | Tariff Managem... ✓ | Associate account ✓ | **More Information 4**

Installer Email: Input installer email

Installer Phone: Input installer Phone

Module: Input number of modules

Grid Interaction Type ⓘ: Maximum Export >

Grid Connection Time ⓘ: Please select date >

Plant Contact Phone: Input phone

Access Platform Time ⓘ: Please select date >

Plant Picture

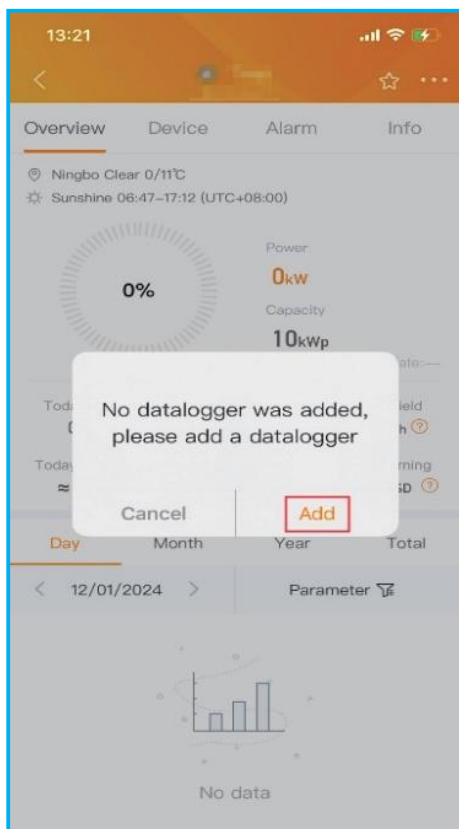
More Settings ⓘ

Previous | **Create Plant**

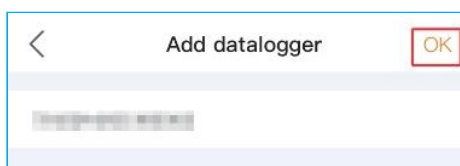
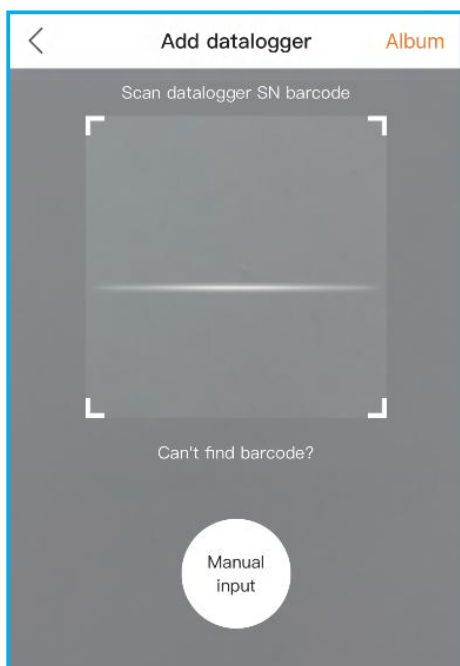
Step 4: Plant creation is completed. It will automatically enter the APP homepage.

## 5 Bind the data loggers

Step 1: Tap on the plant to enter the plant home page. You will be prompted to add a data logger, tap “Add” to add the logger.



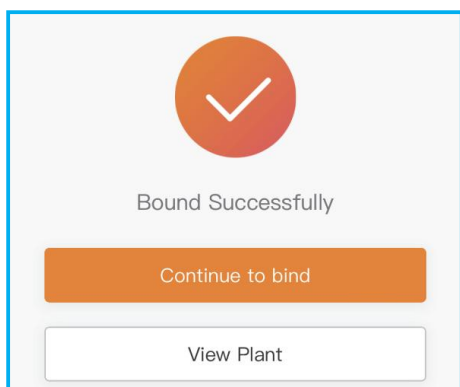
Step 2: Scan the QR code on the logger or manually enter the SN of the logger, and then tap "OK".



 **NOTE**

Please make sure to input the logger serial number, not the inverter serial number.

Step 3: Bound successfully. If the plant has multiple data loggers, please tap "Continue to bind" to bind other data loggers.



# 6 Network Configuration

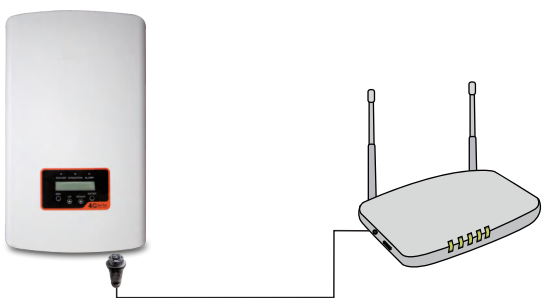
## 6.1 LAN Configuration

If you want to use a wired network, you need to follow the installation steps in section 1.4 to install the network cable.

The logger does not require any configuration in order to communicate through a LAN connection.

Once the cable is connected to both the router and the logger, the logger will be online.

Check the two LED lights on the ethernet port of the logger, they should be lit if the LAN connection is successful.

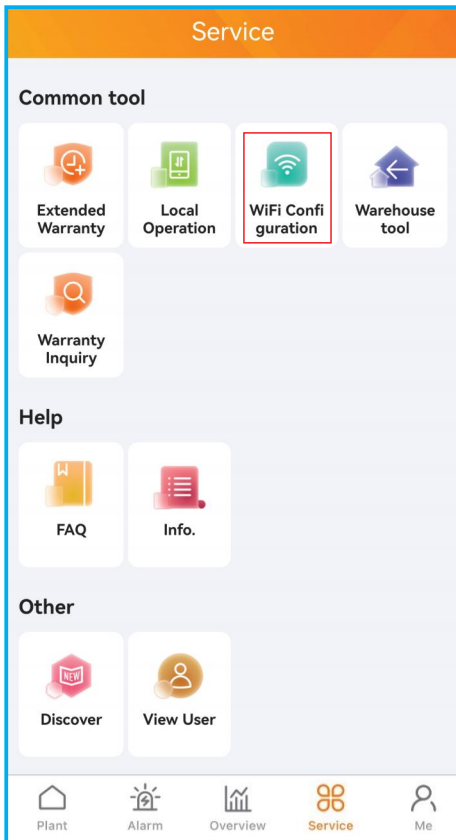


### NOTE

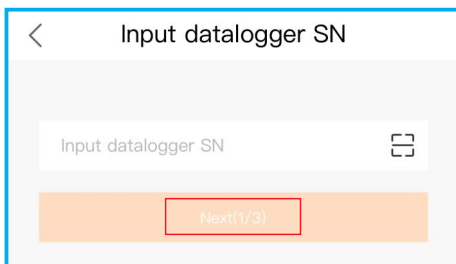
If you want to use a wireless network, please configure the network as described in the following section 6.2. If the Bluetooth networking fails, you can try the browser networking operation in section 6.3.

## 6.2 WiFi Configuration by Bluetooth

Step 1: Tap “Service” page, and then tap “WiFi Configuration” in the toolbar.

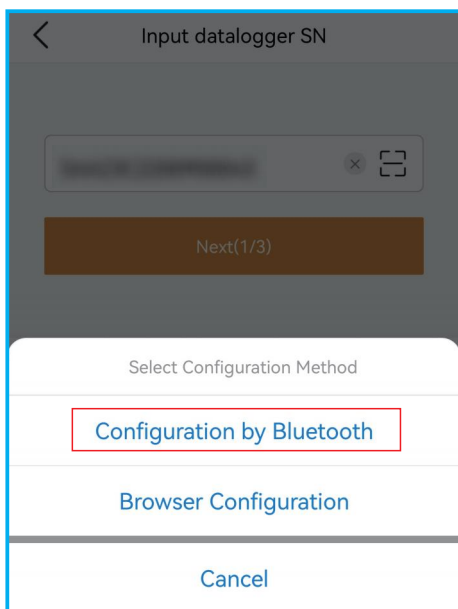


Step 2: Scan the QR code on the logger or manually enter the SN of the logger and then tap “Next”.

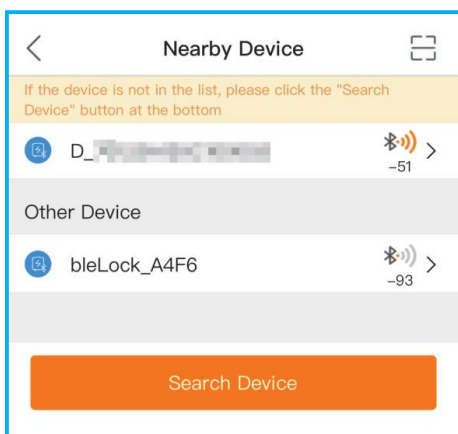




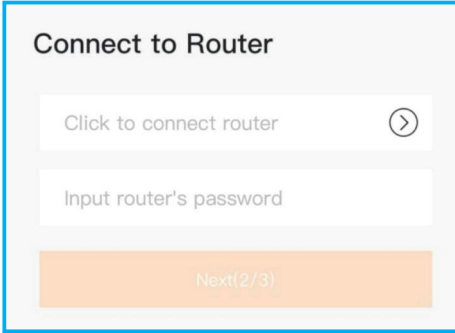
Step 3: Choose the configuration method, tap “Configuration by Bluetooth”.



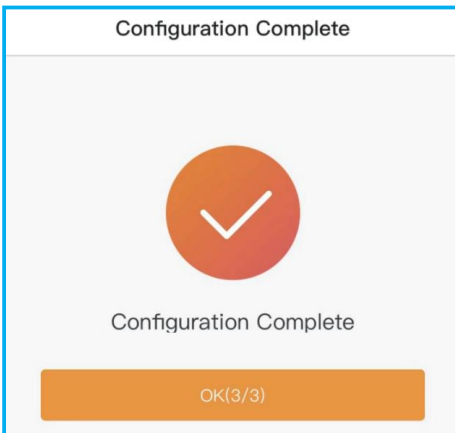
Step 4: Select the Device called “D\_serial number of the inverter”.



Step 5: Tap “>” to jump to the WLAN settings on your phone. Search for Local Area Network and then select the network you want to connect. Then switch back to the page to fill in the WiFi password, and move to next step.

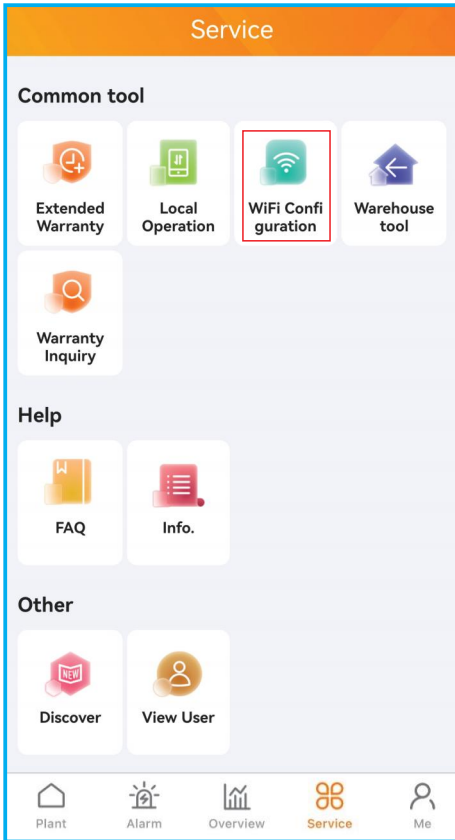


Step 6: Configuration is Completed.

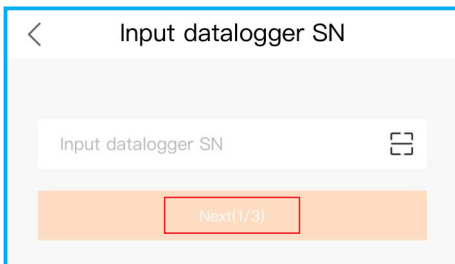


## 6.3 WiFi Configuration by Browser

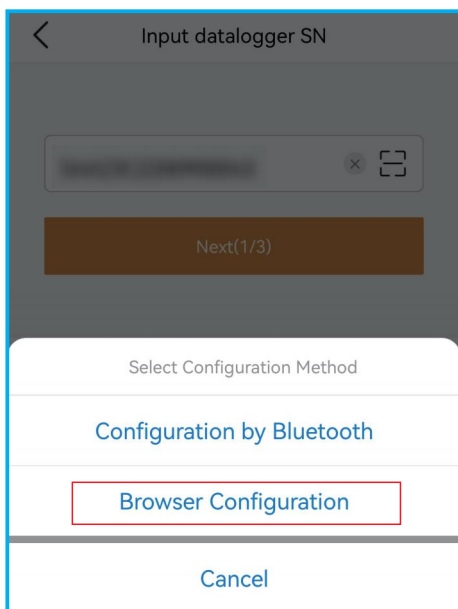
Step 1: Tap “Service” page, and then tap “WiFi Configuration” in the toolbar.



Step 2: Scan the QR code on the logger or manually enter the SN of the logger, and then tap “Next”.




Step 3: Choose the configuration method, tap "Browser Configuration".



Step 4: Make sure that the green light flashes at intervals, then tap "[I'm sure it is flashing](#)".

< Configuration Tip



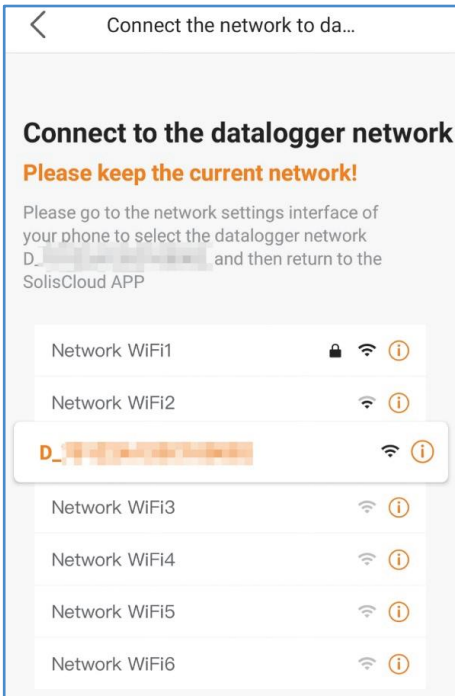
**Please turn on the configuration mode of the datalogger**

Plug the datalogger into the inverter and wait for the indicator light of the datalogger to be stable. That means, the red light on the datalogger keeps on, and the green light flashes every second, as shown in the figure above. Then you can start connecting to the WiFi signal of the logger, click to "[view the tutorial](#)":

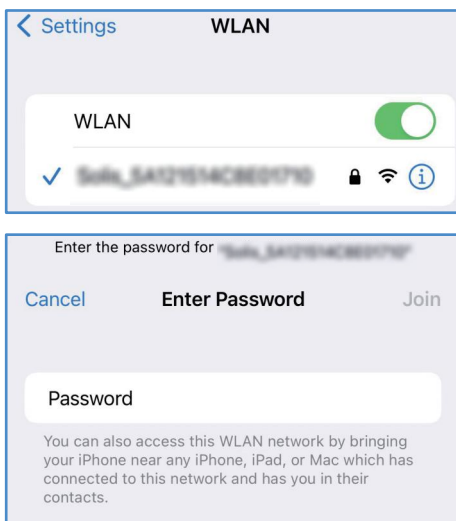
- (1) Make sure that the green light of the datalogger flashes at intervals. If the WiFi signal is not found, try re-plug the datalogger;
- (2) If the WiFi signal still can not be found, please long-press the datalogger for over 10 seconds to restore to the default setting, wait for the indicator light of the datalogger to be stable, and click to [view the tutorial](#);
- (3) If the datalogger is connected to the network, but the network needs to be changed, please follow the method 2
- (4) If the network is not found after multiple attempts of the above methods, please replace the datalogger.

[I'm sure it is flashing](#)

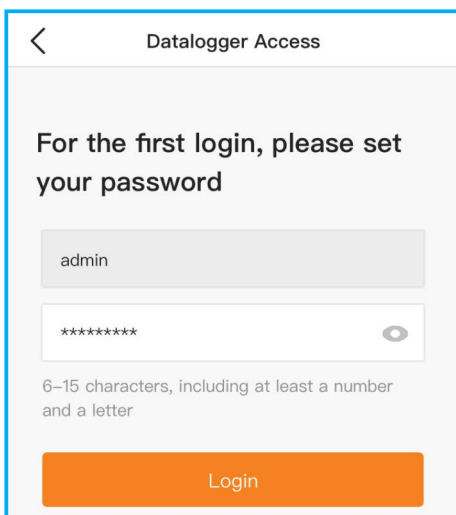
Step 5: Tap anywhere on the page to jump to the WLAN settings on your phone.



Step 6: Select the network named “**D\_serial number of the data logger**”, enter the default password “**123456789**”, and then return to SolisCloud APP.



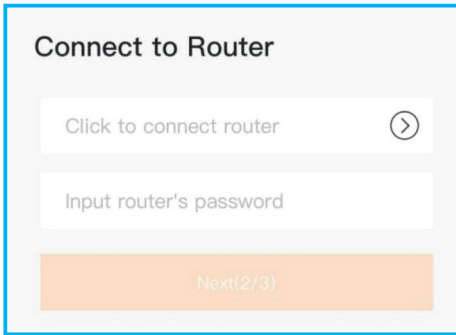
Step 7: If you are logging in for the first time, please set your password and tap “**Login**”.



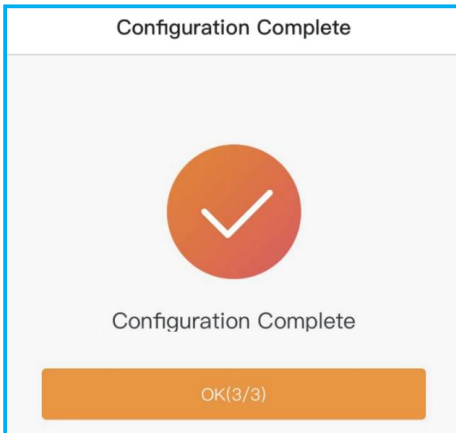
 **NOTE**

Please remember your password. The only solution to forgetting password is to reset the data logger. RESET means a factory setting, so please keep your data safe before the factory reset.

Step 8: Tap “>” and make sure your phone is connected to router WiFi. Then, switch back to the APP page to enter the WiFi password.



Step 9: Configuration is completed.



 **NOTE**

It takes about 1 minute for the data logger to connect to the network. If the green LED on the data logger turns solid, the configuration is successful. If the green LED keeps flashing after 1 minute, please try reconfiguring the network.



The warranty period of this product is 2 years. You can feedback vulnerabilities through online customer service on the platform, and can also call the global after-sales service number to elaborate on relevant problems.

Please provide the following information as well:

- ◆ Inverter SN
- ◆ Data logger SN
- ◆ Problem Description

After receiving the feedback, the engineer will respond to the problem within 24 hours, and officially push the repair version to the user within 6 months.

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