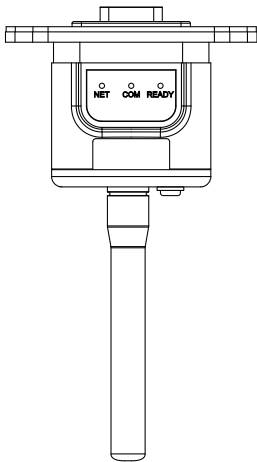


Stick Logger (WiFi)

Model : LSW-3



**Warning:**

1. Please install and remove logger after power off.
2. Reset button supports direct press. Do not remove waterproof plug.

Notice:

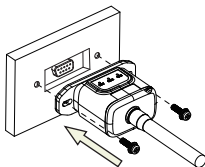
Please read this manual carefully before using products and keep it in the place where O&M providers can easily find.

Due to product upgrade and other factors, the content of this manual might change from time to time. Please take actual product as standard and get latest manual from sales. Unless otherwise agreed herein, this manual will only be used as guidance. Any statement, information or suggestion in this manual will not take any form of responsibility.

Without written permission, any content of this document (partly or entirely) cannot be extracted, copied or transmitted in any form by any company or individual.

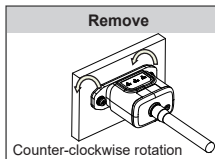
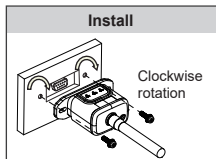
1. Stick logger installation

Step1: Assemble logger to the inverter communication interface as shown in the diagram.



Follow the arrow direction.

Step2: Install/Remove



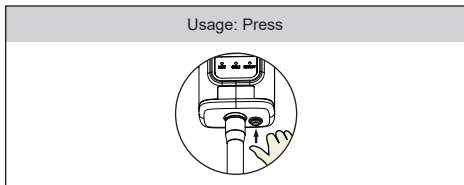
Warning:

Please do not hold the logger body to rotate while install or remove the logger.



2. Operations and notices for Reset button

2.1 Operations and key-press descriptions for Reset button



Key-press	Status Description	Light Status
Long press 5s	Rebooting the stick logger.	All lights are extinguished immediately.
Long press 10s	Resetting the stick logger.	1.All lights are extinguished after 4s. 2.READY light flashes fast for 100ms.

2.2 Notices for Reset button



Notice:
Do not remove waterproof plug.



3. Set WiFi connection on PC

Notice: The setting hereinafter is operated with Windows XP for reference only. If other operating systems are used, please follow the corresponding procedures.

1. Prepare a computer or device with WiFi, e.g. tablet PC and smartphone with WiFi function.
2. Obtain an IP address automatically.
3. Set WiFi connection to the logger
- 3.1 Open wireless network connection and click View Wireless Networks



3.2 Select wireless network of the logger. The network name consists of AP and the serial number of the product. Input the password shown on the logger. Then click Connect.



Notice: If AP_(serial number of product) is not available in the wireless network list, there may be problems in the connection or setting of logger. Please wait several minutes to refresh the list or plug in the logger again.

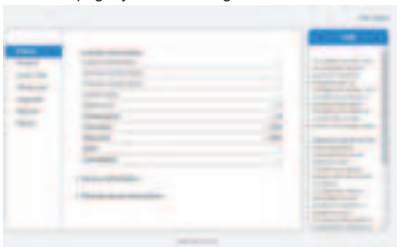
4. Set parameters of logger

4.1 Open a web browser, and enter 10.10.100.254, then fill in username and password, both of which are admin as default.

Recommended browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+



4.2 In the Status page, you can view general information of the logger.



4.3 Follow the setup wizard to start quick setting.

(a)Click Wizard to start. Select the wireless network you need to connect, then click Next



Notice: If the signal strength (RSSI) of the selected network is $<15\%$, which means unstable connection, please adjust the antenna of the router, or use a repeater to enhance the signal.

The SSID of your selected router network should be less than 30 characters, in which blank space should not be included.

(b) Enter the password for the selected network, select Enable to obtain an IP address automatically, then click Next



Notice: Router password cannot be recognized if it contains any character such as '&', '#', '%', and blank space.

The password is being verified, please wait for a while. If you have entered an invalid password or encryption method, an error notice will pop up.

(c) Enhance security settings of the WiFi logger by selecting any options as listed, then click Next



(d) If setting is successful, the following page will display. Click OK to restart.



(e) If restart is successful, the following page will display. If this page does not display automatically, please refresh your browser.






(f) Re- log in this setting page to Status page after the Web server restart, and check the network connection status of the logger.



5. Logger Status

5.1 Check Indicator light

Lights	Implication	Status Description(All lights are single green lights.)
	Communication with router	1.Light off: Connection to router failed. 2.On 1s/Off 1s(Slow flash): Connection to router is successful. 3.Light keeps on: Connection to server is successful. 4.On 100ms/Off 100ms(Fast flash): Fast setting network.
	Communication with inverter	1.Light keeps on: Logger connected to inverter. 2.Light off: Connection to inverter failed. 3.On 1s/Off 1s(Slow flash): Communicating with inverter
	Logger running status	1.Light off: Running abnormally. 2.On 1s/Off 1s (Slow flash): Running normally. 3.On 100ms/Off 100ms(Fast flash): Restore factory settings.

Normal operation status of the stick logger is as follows, when router connected to the network normally:

- 1.Connection to server is successful: NET light keeps on after the logger powered on.
- 2.Logger is running normally: READY light flashes.
- 3.Connection to inverter is successful: COM light keeps on.

6. Troubleshooting

If the data on platform is abnormal when the stick logger is running, please check the status of indicator lights according to the table below for simple troubleshooting. If problems still cannot be solved or indicator lights status is different from the table below, please contact Customer Support.

(Note: Please wait for at least 2 minutes after logger is powered on)

NET ● NET	COM ● COM	READY ● READY	Fault Description	Fault Cause	Solution
Any state	OFF	Slow flash	Communication with inverter abnormal	1.Connection between stick logger and inverter is loose. 2.Inverter does not match with stick logger's communication rate.	1.Check the connection between stick logger and inverter. Remove the stick logger and install again. 2.Check inverter's communication rate to see if it matches with stick logger's. 3.Long press Reset button for 5s, reboot stick logger.
OFF	ON	Slow flash	Connection between logger and router abnormal	1.Stick logger does not connect to network. 2.Antenna abnormal 3.Router's WiFi signal strength is weak.	1.Check if the wireless network is configured. 2.Check if the antenna is damage or loose. 3.Enhance router's WiFi signal strength. 4.Long press Reset button for 10s, reboot stick logger and networking again.
Slow flash	ON	Slow flash	Connection between logger and router normal, connection between logger and remote server abnormal.	1.Router's network abnormal. 2.The server point of logger is modified. 3.Network is limited, server cannot be connected.	1.Check if the router has access to the network. 2.Check the router's setting to see if the connection is limited. 3.Contact our customer service.

NET ● NET	COM ● COM	READY ● READY	Fault Description	Fault Cause	Solution
OFF	OFF	OFF	Power supply abnormal	1.Connection between stick logger and inverter is loose or abnormal. 2.Power supply from inverter is in-sufficient. 3.Stick Logger abnormal.	1.Check the connection, remove the stick logger and install again. 2.Check inverter output power. 3.Contact our customer service.
Any state	Any state	Fast flash	Restore factory settings	Normal	1.Exit automatically after 1mins. 2.Long press Reset button for 5s, reboot stick logger. 3.Long press Reset button for 10s, restore factory settings.



Warning: Please make sure the stick logger is working properly before you leave the site. If there is anything abnormal, please do not leave the site and contact customer service at the first time.

If you have any technical queries about our products, please contact us and provide the following information:

1. Product model and serial number of stick logger.
2. Product model and serial number of connected inverter.