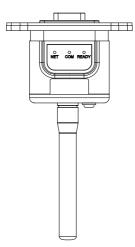
# Stick Logger (WiFi) Model : LSW-3



#### Warning:



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

#### Notice:

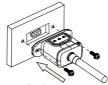
Please read this manual carefully before using products and keep it in the place where O&M providers can easily find.

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.

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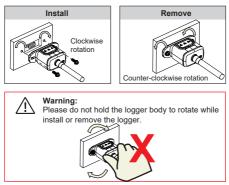
#### 1. Stick logger installation

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



Follow the arrow direction.

Step2: Install/Remove



#### 2. Operations and notices for Reset button

2.1 Operations and key-press descriptions for Reset button

Usage: Press	

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

#### 2.2 Notices for Reset button



#### 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

General Support		
Connection		
Status:		Connected
Network:		yingzhendlink
Duration:		10:14:53
Speed:		54.0 Mbps
Signal Strengt	h	000te
Activity	Sent —	Received
Packets:	422,591	ແຫຼ່າ 496,139
Properties	Disable	ew 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.



Sonnect to a Network	vork		×		
Type the netwo	rk security key				SN:1703520003
Security key:	Hide characters	<del>,</del>			PWD a5ec7bcf
		ОК	Cancel		

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.

Connecting +  Connecting +  10.10.100.254  Arthentication Required				History	View	Edit	File
		+			ing	onnecti	00
Authentication Required				0.254	0.10.10	()]1	*
	1		owner:		quired	tication Re	Authent
A username and password are being requested by http://10.101.00.254. The site sa 'GoAhead'	e site says:	.0.10.100.254. The	ng requested by http://I	password are bei			0

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

		Help
Status	- Inverter information	
Wizard	Inverter senal number	
Duick Set	Firmware version (main)	
Advanced	Firmware version (slave)	tacilitate users to
Jograde	inverter model	
Restart	Rated power	W wireless information
	Current power	
Reset	Yield today	- kWb server via wireless route
	Total yield	KWh Status of remote serve
	Alerts	+Not connected
	Last updated	Connection to server tailert last time
	+ Device Information + Remote server information	H under such status, plasse check the issues as follows: (1) check the device information to swa whether (iP address in cottained or not, (2) check if the couldr is connected to interest or

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

Wizard	Please select your current wi		The setup wizard v assist you to comp
Quick Set	Site Survey SSID	BSSID	the device setting
Advanced	0 R&D	A4:99:47:29:67 F	within one minute.
	0 HE-2405000501	98 D8 63 F 6F 33	
Upgrade	0 AP 711241528	98:D8:63:F:6D:6	
Restart	9 BYD 902000501	98:D8:63:F:6D:E	
Reset	g IGEN-HILINK	94:77:28:49:1E-5	
	9 AP 711161522	98 D8 63 E 6D C	
	o TP-I INK 3	48.7D.2E.62.16.2	
	e null	5A 56 5A 10 C 6	
	4		
	*Note: When RSSI of the sel than 15%, the connection ma other available network or sh the device and router.	ected WiFi network is lower y be unstable, please select orten the distance between Refresh	t
	than 15%, the connection ma other available network or sh the device and router.	y be unstable, please select orten the distance between Refresh	t
	than 15%, the connection may other available network or sh the device and router. Add wireless network manual	y be unstable, please select orten the distance between Refresh	t
	than 15%, the connection ma other available network or sh the device and router. Add wireless network manua Network name (SSID) (Note: case	y be unstable, please select orten the distance between Refresh By: SEAR-TEST	t

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

		Help
Status	Please fill in the following information:	
Wizard		Most systems suppor the function of DHCP
Quick Set		to obtain IP address automatically. Please
Advanced	(Note: case sensitive)	select disable and
Upgrade	(Note: case sensitive) U Show Password	add it manually if you router does not
Restart	Obtain an IP address Enable T	support such function
Reset	automatically	
	IP address	
	Subnet mask	
	Gateway address	
	DNS server address	
	Back Next	
	1 2 3 4	

Web Ver: 1.0.20

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

		Help
Status Wizard Quick Set Advanced	Enhance Security You can enhance your system security by choosing the following methods	Change the encryption mode to AP If you set password for the AP network
Upgrade	Change the encryption mode for AP R Encryption mode WPA2-PSK V	you will need to enter the password to
Restart Reset	WPA encryption Encryption algorithm © TKIP # AES © TKIPAES	Change the user name and password for Web server If you change the
	Password (8 to 63 12345678 characters) Change the user name and password for #	username and password for the web server, you will need to enter the new username and password to get access to the setting
	Current user name admin	page.
	New user name (Max.15 characters) Re-enter user name New password (Max.15 characters)	

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

		Help
Status Wizard Quick Set Advanced Upgrade Restart Reset	Setting complete! Cick OK, the settings will take effect and the system will restart immodulate). If you leave this interface without clicking OK, the settings will be interface.	After clicking OK, the system will restart immediately.
	Васк ОК 1 2 3 <u>4</u>	

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

		Help
Status	Setting complete! Please close this page manually!	
Wizard		*Note: The IP address of the
Quick Set		device may have changed, please
Advanced		refer to User Manua
Upgrade		to check the procedures to
Restart	Please login our management portal to monitor	obtain the new IP address.
Reset	and manage your PV system. (Please register an account if you do not have one.)	address.
	To re-login the configuration interface, please make sure that your computer or smart phone and our device are in the same network segment, and enter the new IP address of the device to access the interface.	

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

			Help
Status	Device information		
Wizard	Device serial number	603040574	The device can be used as a wireless access point (AP
Wireless	Firmware version	H4.01.40Y2.0.02W1.0.03	mode) to facilitate users to
Cable	Wireless AP mode	Enable	configure the device, or it can also be used as a
Advanced	SSID	AP_603040574	wireless information termina
Upgrade	IP address	10.10.100.254	(STA mode) to connect the remote server via wireless
Restart	MAC address	AC:CF:23:10.F3:48	router.
	Wireless STA mode	Enable	
Reset	Router SSID	yingzhendlink	
	Signal Quality	76%	
	IP address	192.168.1.130	
	MAC address	AC:CF:23:10:F3:49	
	Cable mode	Disable	
	IP address		
	MAC address		
	V Connected Inverter		
	<ul> <li>Remote server information</li> </ul>		

Notice: After network setting is complete, the Wireless AP mode should be enabled and relative information of your router will display on the interface automatically. Besides the Remote server A should be connected.

If you meet any problems and need support, please provide the screenshot of the status page as shown below.

Status	- Inverter information		
Wizard	Inverter serial		The device can be used as a wireless
Quick Set	number		access point (AP mode) to facilitate
Advanced	Firmware version (main)		users to configure th
Jpgrade	Eirmware version		device, or it can also be used as a wireles
Restart	(slave)		information terminal (STA mode) to
Reset	Inverter model		connect the remote
	Rated power	— W	server via wireless router.
	Current power	W	Status of remote
	Yield today	kWh	*Not connected
	Total yield	kWh	Connection to serve
	Alerts		If under such status,
	Last updated		please check the issues as follows: (1) check the device
	- Device information		(1) check the device information to see whether IP address
	Device serial number	515290981	obtained or not:
	Firmware version	LSW3_10_5406_1.16_MW3 is connect internet of	(2) check if the route is connected to
	Wireless AP mode		(3) check if a firewal
	SSID	AP_515290981	*Connected: Connection to serve
	IP address	10.10.100.254	
	MAC address	fD:fe:6b:fa:6d:df	
	Wireless STA mode	Disable	successful last time;
	Router SSID		+Unknown: No connection to
	Signal Quality		server.Please check
	IP address	again in 5 m	again in 5 minutes.
	MAC address		
	- Remote server information		
	Remote server A	Not connected	
	Remote server B	Not connected	

### 5. Logger Status

#### 5.1 Check Indicator light

Lights	Implication	Status Description(All lights are single green lights.)		
• NET	Communication with router	1.Light off: Connection to router failed. 2.On 1s/Off 1s(Slow flash): Connection to router is successful. ith router 4.On 100ms/Off 100ms(Fast flash): Fast setting network.		
СОМ	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		
READY	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 leat 2 minutes after logger is powered on)

NFT	COM	RFADY			
NET	COM	READY	Fault Description	Fault Cause	Solution
Any state	OFF	Slow flash	Communication with inverter abnormal	1.Connection betw- een stick logger and inverter is loose. 2.Inverter does not match with stick log- ger's communication rate.	1.Check the con- nection 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 Re- set button for 5s, reboot stick logger.
OFF	ON	Slow flash	Connection between logger and router abnormal	1.Stick logger does not connect to net- work. 2.Antenna abnormal 3.Router's WiFi signal strength is weak.	1.Check if the wire- less network is con- figured. 2.Check if the ante- na is damage or loose. 3.Enhance router's WiFi signal strength. 4.Long press Reset button for 10s, reb- out stick logger and networking again.
Slow flash	ON	Slow flash	Connection betwe- en logger and router normal, connection between logger and remote server abnormal.	1.Router's network- ing 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 cust- omer service.

NET	COM COM	READY READY	Fault Description	Fault Cause	Solution
OFF	OFF	OFF	Power supply abnormal	1.Connection betw- een stick logger and inverter is loose or abnormal. 2.Power supply from inverter is in-suffic- ient. 3.Stick Logger abn- ormal.	1.Check the con- nection, remove the stick logger and ins- tall again. 2.Check inverter output power. 3.Contact our cust- omer 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, res- tore 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.