



Quick Guide WIFI KIT S-WE01S

From this page

WiFi Kit S-WE01S is an external data logger in the SolarMAN PV monitoring series.

By connecting with single or multiple inverters through RS485/422 interface, the Kit can collect information of PV systems from inverters. With the integrated WiFi function, the Kit can connect to router and transmit data to the web server, realizing remote monitoring for users. In addition, Ethernet is also available for connection to router, enabling transmission of data.

Users can check the runtime status of the device by checking the 4 LEDs on the panel, indicating Power, 485/422, Link and Status respectively.

A : Unpack

B : Install data logger

C : Connect data logger and inverters

D : Network setting

E : Register on SolarMAN Portal

: Log in SolarMAN Portal to manage power station

G: Trouble shooting:

This Quick Guide is intended to assist users in quick installation and start of WiFi Kit S-WE01S. If any problems, please refer to corresponding chapters of <u>S-WE01S User Manual</u> for details.

A:Unpack

1. Checklist

After unpacking the box, please make sure all the items are contained as follows:



1 PV data logger (WiFi Kit S-WE01S)



2 1 power adapter with European or British plug



3 2 screws

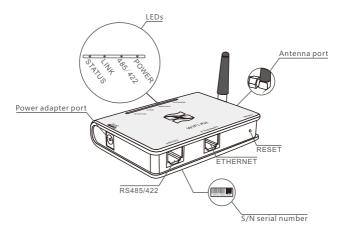


4) 2 expandable rubber hoses



(5) 1 Quick Guide

2. Interface and connection



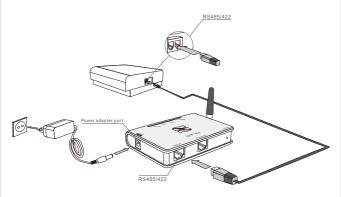
B:Install data logger

WiFi Kit can be either wall-mounted or flatwise. Please refer to 3. Installation of User Manual for details.

C:Connect data logger and inverters

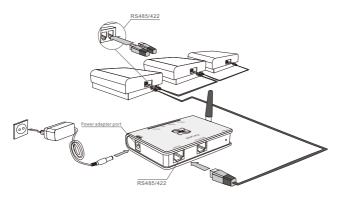
Notice: Power supply of inverters must be cut off before connection. Make sure that all connections are completed, then power the data logger and inverters, otherwise personal injury or equipment damage may be caused.

1. Connection with single inverter



Connect inverter and data logger with network cable, and connect data logger and power supply with power adapter.

1. Connection with multiple inverters



- 1. String connect multiple inverters with network cables.
- 2. Connect the first or last inverter in the string to data logger with network cable.
- 3. Connect data logger to power supply with power adapter.

3. Confirm connection

When all connections are finished and with the power on for about 1 minute, check the 4 LEDs. If POWER and STATUS are permanently on, and LINK and 485/422 are permanently on or flashing, connections are suc-cessful. If any problems, please refer to G:Debug.

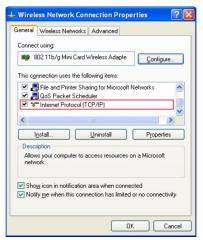
D:Network setting

The Kit can transfer information via either WiFi or Ethernet, users may choose the appropriate method accordingly.

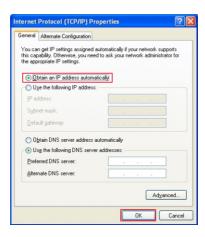
I. Connection via WiFi

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

- Prepare a computer or device, e.g. tablet PC and smartphone, that enables WiFi.
- 2. Obtain an IP address automatically
 - ① Open Wireless Network Connection Properties, double click Internet Protocol (TCP/IP)

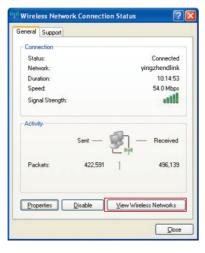


2 Select Obtain an IP address automatically, and click OK

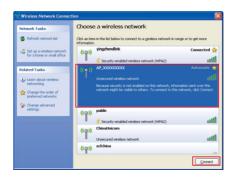


3. Set WiFi connection to the data logger

①Open wireless network connection and click View Wireless
Networks



②Select wireless network of the data logging module, no passwords required as default. The network name consists of AP and the serial number of the product. Then click Connect.



3 Connection successful

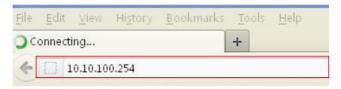


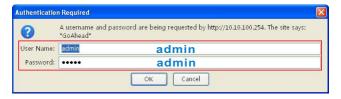
Notice: If AP_(serial number of product) is not available in the wireless network list, there may be problems in the connection or setting of data logging. Please refer to 5. Debug of User Manual for troubleshooting.

4. Set parameters of data logger

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

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





(b) In the configuration interface of data logger, you can view general information of the data logger.

Follow the setup wizard to start quick setting.

1 Click Wizard to start



The device can be used as a wireless access point (AP mode) to facilitate users to configure the device, or it can also be used as a wireless information terminal (STA mode) to connect the remote server via wireless router.

mode is on while STA mode off, the device can only be connected to remote server through cable network.

2 Click Start to continue



3 Select Wireless connection, and click Next



Click Refresh to search available wireless networks, or add it manually



Select the wireless network you need to connect, then click Next

Notice: If the signal strength (RSSI) of the selected network is <10%, which means unstable connection, please adjust the antenna of the router, or use a repeater to enhance the signal.



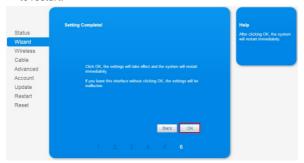
6 Enter the password for the selected network, then click Next



Select Enable to obtain an IP address automatically, then click Next



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



If restart is successful, the following page will display.



Notice: After setting is completed, if STATUS is permanently on after about 30 seconds, and the 4 LEDs are all on after 2-5 minutes, the connection is successful. If STATUS is flashing, which means unsuccessful connection, please repeat the setting from step 3.

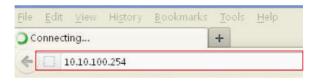
II.Connection via Ethernet

- 1. Connect router and data logger via Ethernet port with network cable
- 2. Reset the data logger.

Reset: Press the reset button with a needle or open paper clip and hold for a while when the 4 LEDs should be on. Reset is successful when 3 LEDs, except POWER, turn off.

3. Enter the configuration interface of your router, and check the IP address of the data logger assigned by the router. Open a web browser and enter the assigned IP address to get access to the configuration interface of the data logger. Fill in username and password, both of which are admin as default.

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





4. Set parameters of data logger

In the configuration interface of data logger, you can view general information of the device.

Follow the setup wizard to start quick setting.

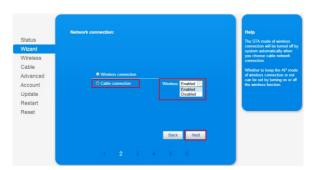
1 Click Wizard to start



2 Click Start to continue



③Select Cable Connection, and you can choose to enable or disable the wireless function, then click Next



Select Enable to obtain an IP address automatically, then click Next



⑤ If setting is successful, the following page will display. Click OK to restart.



6 If restart is successful, the following page will display.



Notice: After setting is completed, if STATUS is permanently on after about 30 seconds, and the 4 LEDs are all on after 2-5 minutes, the connection is successful. If STATUS is flashing, which means unsuccessful connection, please repeat the setting from step 3.

E:Register on SolarMAN Portal

Open a web browser and visit the portal website: http://www.solarmanpv.com/portal

Supported browsers: Internet Explorer 8+, Google Chrome 10+, Firefox 9+, Safari 4+

1 Click Register Now



2 Fill in your email address and password, then click Next



3 Fill in the information as required, then click Complete



If registration is successful, the following page will display. Click OK to return to the homepage of the portal.



F:Log in SolarMAN Portal to manage power station

After successful registration, open the login page of SolarMAN Portal, and input your E-mail and password to access the monitoring system and start monitoring and management of power plants.



Notice: If users access the monitoring system for the first time within ten minutes after successful registration, please check the "Real Time" interface. If there are data shown in the Real Time interface, network setting of data logger and other connection are deemed successful.



G:Trouble shootings

I. LED indication



LEDs	Status	Meaning
POWFR	On	Power is normal
POWER	Off	Power is abnormal
	On	Connection between data logger and inverter is normal
485\422	Flashing	Data is transmitting between data logger and inverter
	Off	Connection between data logger and inverter is abnormal
STATUS Off	LINK Flashing	Connecting WiFi
	LINK Flashing	Data is transmitting via WiFi
STATUS On	LINK On	Connection of data logger is normal
	LINK Off	Connection of data logger is abnormal
	LINK Flashing	Data is transmitting via port
STATUS Flashing	LINK On	WiFi in AP mode, a terminal connected
	LINK Off	WiFi in AP mode, no terminal connected

II. Trouble shooting

Phenomenon			on		
POWER	485/422	LINK	STATUS	Meaning	Solutions
Off	Off	Off	Off	No power supply	Connect power supply and ensure good contacts.
On Off		f X	х	Connection with inverter is abnormal	Check the connection cable, and ensure that the cable order comply with T568B.
	Off				Ensure the stability of RJ-45.
					Ensure that inverter is working under normal condition.
On	Х	Х	Fla sh ing	In AP mode	Set network.
		Fla (sh ing	Off	No WiFi connected to data logger	Check if the antenna is loose or falls off. If so, please screw to tighten.
On	Х				Check if the required WiFi is covered.
					Reset data logger and set network again.
On	On	Off	On	Connection to remote server failed	Check if WiFi can connect to Internet
On	Off	Off	Off	System under initialization	Wait for 2 minutes, if no changes occur, reset data logger.
					Check the connection of antenna
Weak WiFi				Weak WiFi	Add WiFi repeater
					Connect via Ethernet

Note 1 X means uncertain status.

Note 2: When screw or adjust the antenna, please note that only the metal part can be touched, and do not screw the plastic part, otherwise the antenna may be damaged.

Note 3: If the equipment still fails to work upon above solutions, please contact your device customer service.

H:Contact

If any technical problems, please contact us, with the following information in hand:

- ◆ Device model
- Serial number of product

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