

solis GL-WE01 Wifi Data Logging Box User Guide

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solis GL-WE01 Wifi Data Logging Box



Data Logging Box WiFi is an external data logger in the Ginlong monitoring series.

By connecting with single or multiple inverters through RS485/422 interface, the Kit can collect information of PV /wind 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.

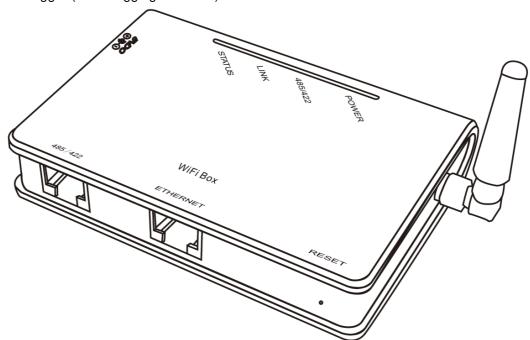
Users can check the runtime status of the device by checking the 4 LEDs on the panel, indicating Power, 485/422, Link and Status respectively.

Unpack

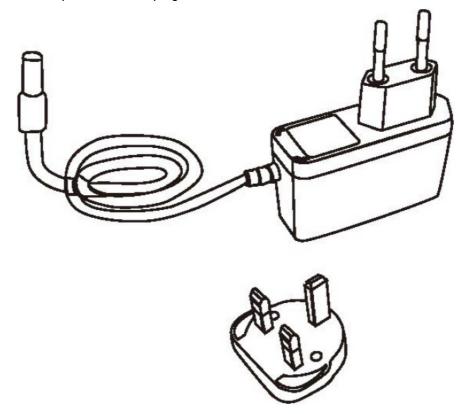
Checklist

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

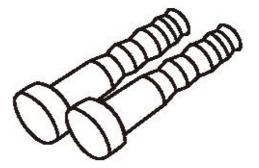
1. 1 PV/wind data logger (Data Logging Box WiFi)



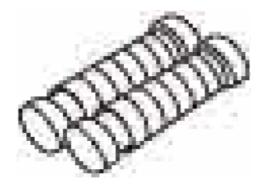
2. 1 power adapter with European or British plug



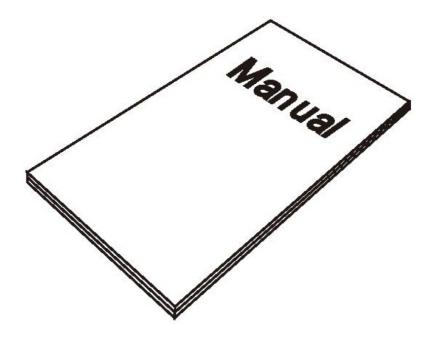
3. 2 screws



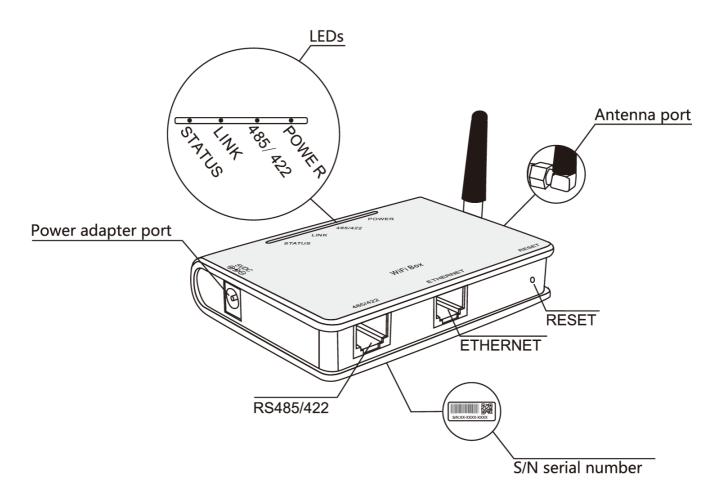
4. 2 expandable rubber hoses



5. 1 Quick Guide



Interface and Connection



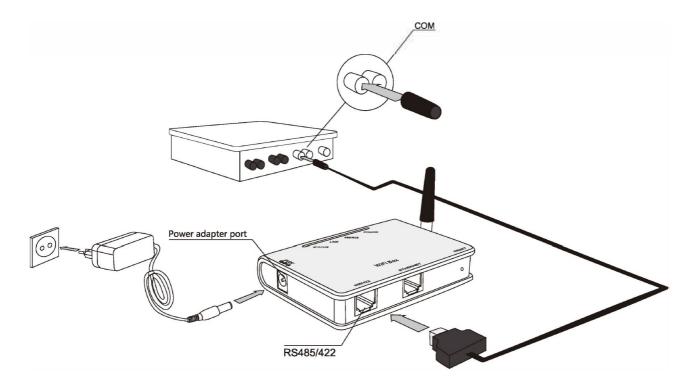
Install Data Logger

WiFi Box can be either wall-mounted or flatwise.

Connect Data Logger and Inverters

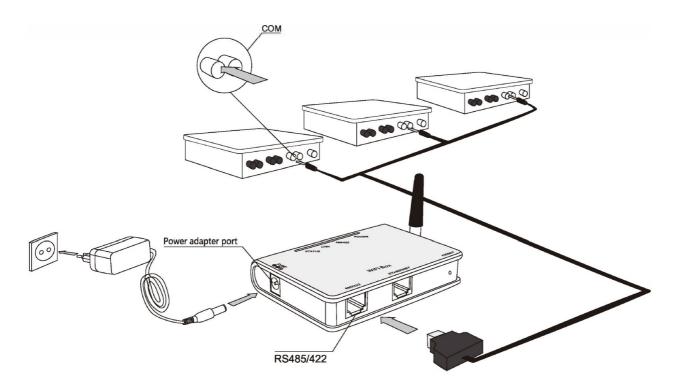
Notice: Power supply of inverters must be cut off before connection. Make sure that all connections are completed, then power the data logger and inverters, otherwise personal injury or equipment damage: may be caused.

Connection with Single Inverter



Connect inverter and data logger with 485 cable, and connect data logger and power supply with power adapter.

Connection with Multiple Inverters



- 1. Parallel connect multiple inverters with 485 cables.
- 2. Connect all inverters to data logger with 485 cables.
- 3. Set different address for each inverter. For example, when connecting three inverters, the address of first inverter must be set as "01", the second must be set as "02", and the third must be set as "03" and so on.
- 4. Connect data logger to power supply with power adapter.

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 successful. If any problems, please refer to G: Debug.

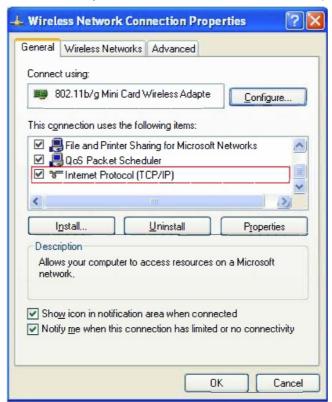
Network Setting

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

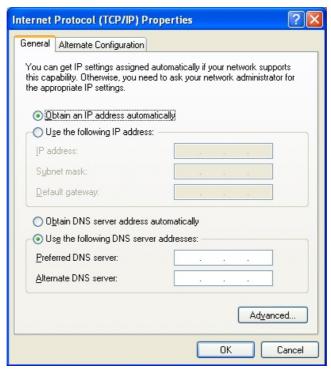
Connection via WiFi

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

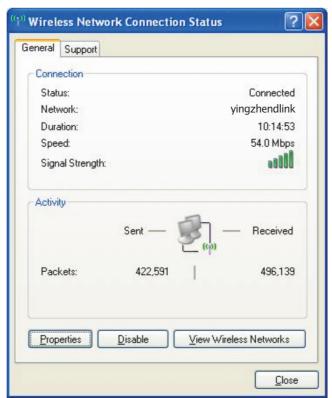
- 1. Prepare a computer or device, e.g. tablet PC and smartphone, that enables WiFi.
- 2. Obtain an IP address automatically
 - Open Wireless Network Connection Properties, double click Internet Protocol (TCP/IP).



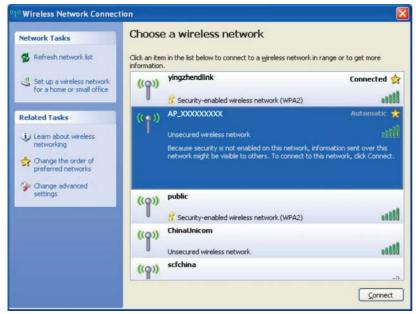
· Select Obtain an IP address automatically, and click OK.



- 3. Set WiFi connection to the data logger
 - Open wireless network connection and click View Wireless Networks.



• Select 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.

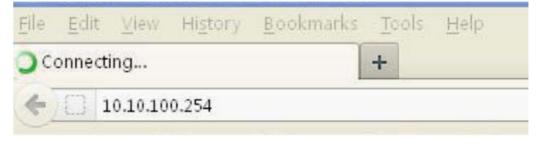


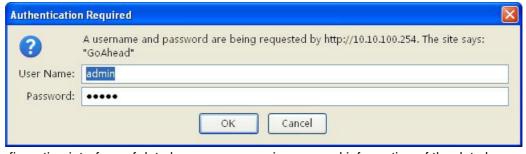
· Connection successful.



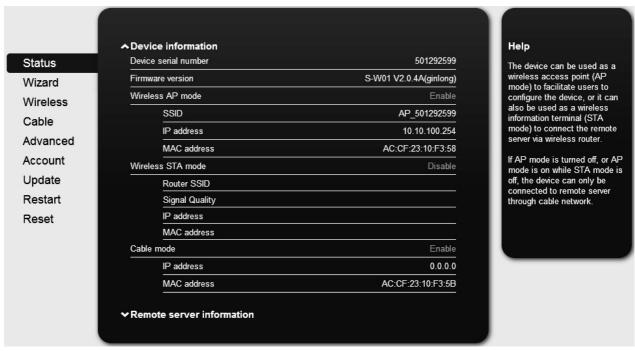
- 4. Set parameters of data logger
 - Open a web browser, and enter 10.10.100.254, then fill in username and password, both of which are admin as default.

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





- In the configuration interface of data logger, you can view general information of the data logger. Follow the setup wizard to start quick setting.
- · Click Wizard to start.



· Click Start to continue.



• Select Wireless connection, and click Next.

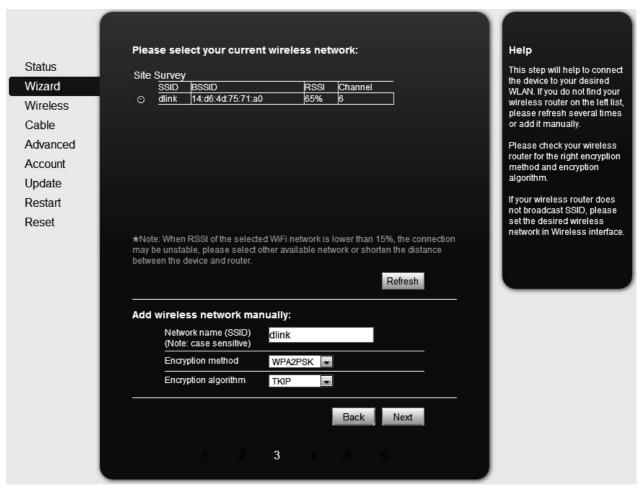


Click Refresh to search available wireless networks, or add it manually.



• 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.



• Enter the password for the selected network, then click Next.



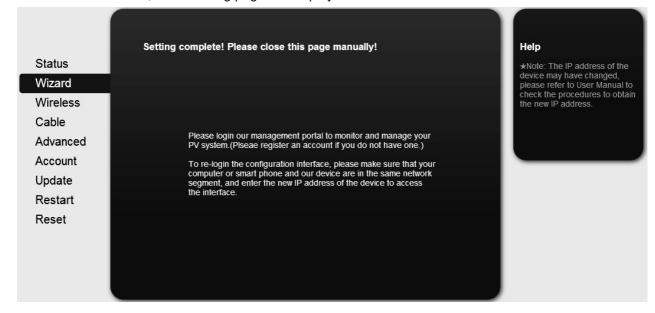
• Select Enable to obtain an IP address automatically, then click Next.



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



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

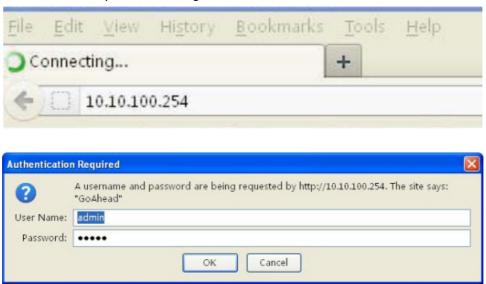


Notice: After setting is completed, if ST A TUS is permanently on after about 30 seconds, and the 4 LEDs are all on after 2-5 minutes, the connection is successful. If STATUS is flashing, which means unsuccessful connection, please repeat the setting from step 3.

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.

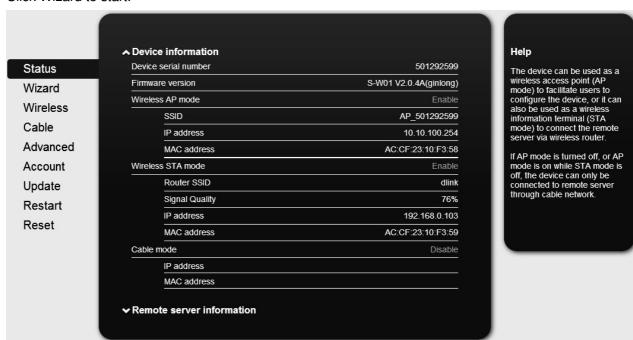
Supported browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+



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.

· Click Wizard to start.



· Click Start to continue.



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



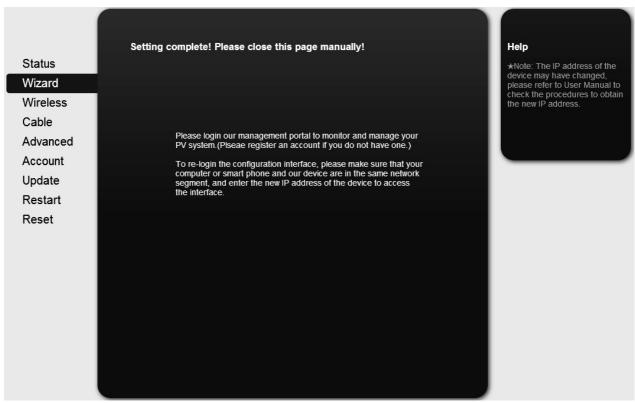
• Select Enable to obtain an IP address automatically, then click Next.



• 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 I minutes, the connection is successful. If STATUS is flashing, which means unsuccessful connection, please repeat the setting from step 3.

Create Solis Home Account

• Step1: Phone scanning and sending QR code to download registration APP. Or search Solis Home or Solis Pro in the App Store and Google Play Store.

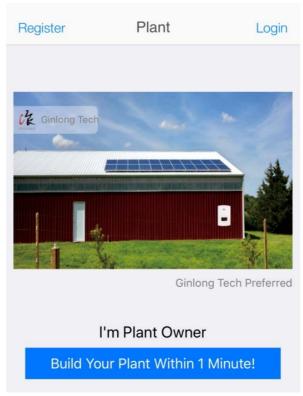


End user, owner use

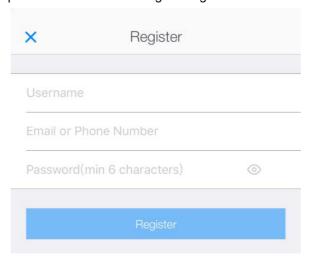


Installer, distributor use

• Step2: Click to register.



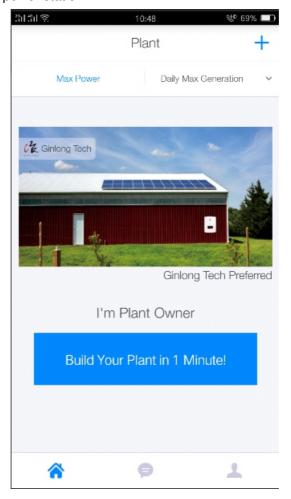
• Step3: Fill in the content as required and click on the register again.



Create Plants

1. In the absence of login, click "1 minute to create the power station" in the center of the screen. Click "+" in the

upper right corner to create the power station.



2. Scan the code

APP only supports the scanning of the bar code/QR code of dataloggers. If there is no datalogger, you can click the "no device" and jump to the next step: input plant information.

3. Input plant information

The system automatically locates the location of the station via the mobile phone GPS. If you are not in the site, you can also click "map" to select on the map.

4. Enter the name of the station and the owner's contact number

The name of the station is suggested to use your name, and the contact number is recommended to use your mobile phone number so as to have the installer operation in the later period.



Troubleshooting

Power	On	Power supply is normal
	Off	Power supply is abnormal
485\422	On	Connection between data logger and inverter is normal
	Flash	Data is transmitting between data logger and inverter
	Off	Connection between data logger and inverter is abnormal
LINK	On	Connection between data logger and server is normal
	Flash	Data logger is under AP mode with cable connection or wireless connection No network available
	Off	Connection between data logger and server is abnormal
STATUS	On	Data logger works normally
	Off	Data logger works abnormally

Troubleshooting

Phenomenon	Possible Reason	Solutions
Power off	No power supply	Connect power supply and ensure good contact.
	Connection with inverter is	Check the wiring, and ensure that the line order compl y with T568B
RS485/422 off	abnormal	Ensure the stability of RJ-45.
		Ensure normal working status of inverter
LINK flash	Wireless In STA mode	No network. Please set network first. Please configure internet connection according to Quick Guide.
	Data logger works abnormall y	Check logger working mode (Wireless mode/Cable m ode)
LINK off		Check if the antenna is loose or falls off. If so, please screw to tighten.
LINK OII		Check if the device is covered by the range of the rout er.
		Please refer to User Manual for further information or have the data logger tested with our diagnosis tool.
Status off	Data logger works abnormall y	Reset. If the problem still exists, please contact our cu stomer service.
		Check the connection of antenna
WiFi signal strength wea	ak	Add WiFi repeater
		Connect via Ethernet interface

Documents / Resources



solis GL-WE01 Wifi Data Logging Box [pdf] User Guide GL-WE01, Wifi Data Logging Box

Manuals+,