Quick Guide for DIN-Rail Logger (WiFi)

Product Model: LDW-1

Ⅰ Instruction

By collecting the data from inverter, meter and other devices, DIN-Rail logger (WiFi) can run a long-term and efficient monitoring of PV system.

Logger sends the data to the monitoring platform via WiFi. The real-time status and historical data can be displayed with graphs, enabling intuitive and clear understanding of PV system.
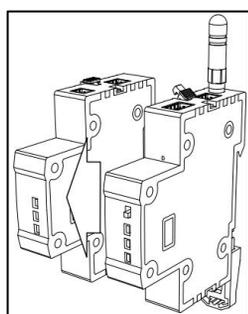
Ⅱ Installation

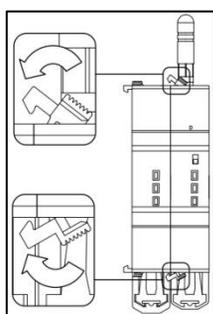2.1 Step 1: Plug the power module into the logger.

Step 2: Lock the yellow snap-fit
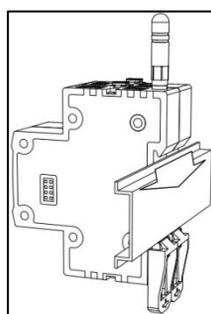
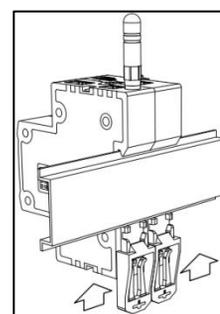Step 3: Mount the device on the rail

Step 4: Push the black snap-fit

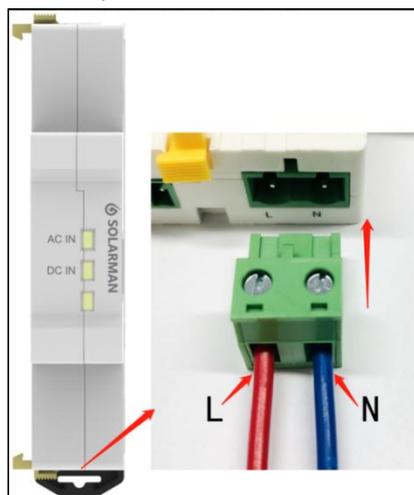| Step 1 | Step 2 | Step 3 | Step 4 |

2.2   a. Plug L-line/N-line into the terminal(220V) and insert into the power module.
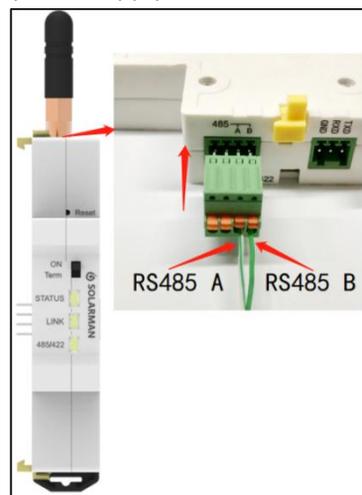
b. Connect the COM line to RS485 terminal and insert into the logger.

c. Connect the COM line to inverter RS485 port. (Please refer to inverter instructions.)

Notice: All installation steps must be carried out under no power supply.

2.2.a   2.2.b

2.3 Please check the installation again and power on the device. After power-on for 1 min, users can check the logger running status and the data on SOLARMAN platform.

Ⅲ LED Indicator Lights Instructions

Lights	Status	Instruction
Status	Flash	Module normal
	ON/OFF	Module abnormal
Link	Flash	Connecting to server
	ON	Normal connection to server
	OFF	Fail to connect to server
485/422	Flash	Communicating with inverter
	ON	Normal communication with inverter
	OFF	Fail to communicate with inverter

Ⅳ Abnormal Status Processing

Lights	Status	Fault Description	Fault Cause	Solution
Link	OFF	Fail to connect to server	Router has no network/Router has no DHCP function or DHCP function is off	Check router status
			Logger network not configured	Configure the network again
			WiFi signal strength weak	Improve the network environment
			Server abnormal/Server direction abnormal	Contact the customer service
485/422	OFF	Fail to communicate with inverter	Firmware protocol incorrect	Contact the customer service
			Wiring error	Check the wiring again
			Inverter com settings error	Check the com address and protocol type
Status	OFF	Logger abnormal	Module abnormal	Contact the customer service

Notice: If it still can't be resolved or indicator lights status do not show in the table below, please contact our customer service.

Information need to be provided:

a: Product Model

b: Logger SN

c: Inverter brand, type, number

Ⅴ Networking Setup

5.1 DIN-Rail Logger Configuration Page

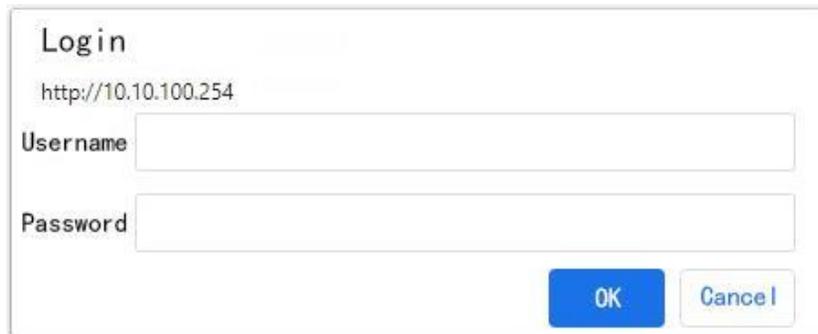5.1.1 Prepare a computer/smart phone that can connect to wireless network.

5.1.2 Connect to logger AP （Please do Not connect the cable when configuring the logger.）

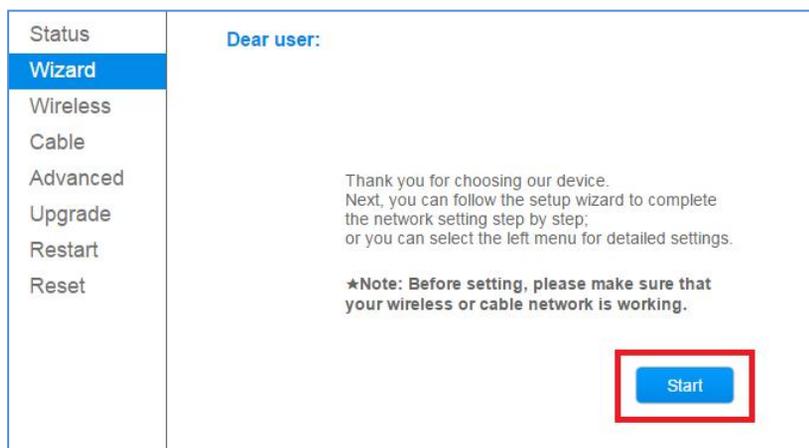Select and connect AP XXXXXXXXX in the network list（XXXXXXXXX means logger SN）.

5.1.3 Log in to logger WEB page

Open a browser and enter 10.10.100.254. Username: admin Password: admin

5.1.4 Go to "Setup Guide" and click "Start".

5.2 WiFi Configuration（If Ethernet is selected, please skip this step.）

　　Notice：1.Router name and password cannot have special characters, e.g. 、；，＝ ' ".

　　　　　　2.5G WiFi is not supported.

5.2.1 Select"Wireless connection".

5.2.2 Select WiFi router name.

5.2.3 Enter router password.

5.2.4 Modify AP password to enhance safety.

5.2.5 WiFi configuration is done.
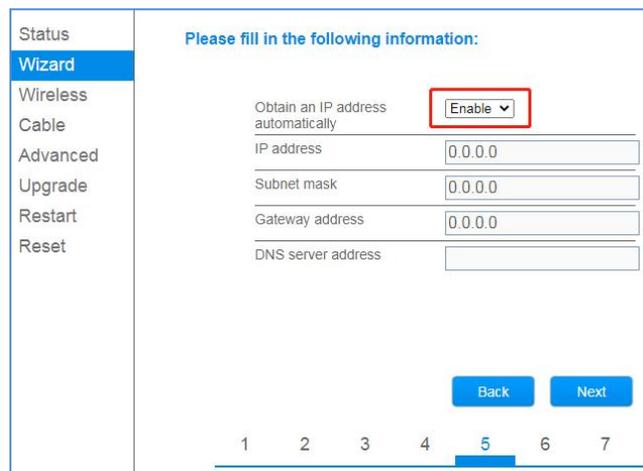

Notice: Click"Done"to reboot system, which might take 1 minute.

5.3 Ethernet Configuration（If WiFi is selected, please skip this step.）
5.3.1 Select"Cable connection", and set Wireless: Disable.

5.3.2 Network Setup（Obtain an IP address automatically: Enable）

Notice：

Most routers support DHCP function to obtain IP address automatically. (Set DHCP function: ON)

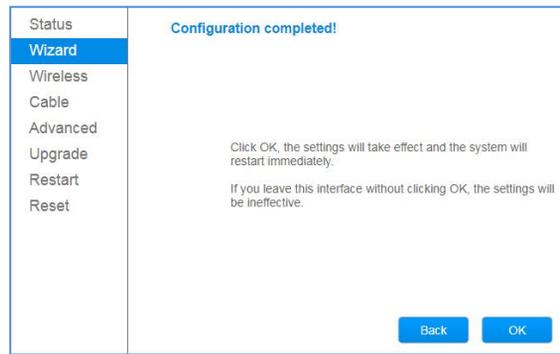If the router restricts IP connection, please select"Disable"and modify the parameter according to router.

5.3.3 Modify AP password to enhance safety.

5.3.4 Ethernet configuration is done.

5.3.5 Connect logger and router via cable.

> Notice：
>
> 1. If the signal strength is <15, it means Unstable. Please adjust router location.
> 2.SSID of router network can not exceed 30 characters.“Space”is excluded.
> 3.When WiFi logger is at STA mode, supported router channel range: 1-11.
> 4.WiFi router name and password does not support special characters, e.g. 、；，＝'". It is recommended to choose a-z, a-z, 0-9 as router SSID and password.
> 5.Some router might restrict WiFi connection. It is recommended to turn off Qos function.
> 6. WiFi supports standard encryption method（WEP/WPAPSK/WPA2PSK）, mixed encryption method is not supported.
> 7. Turn on router DHCP function, or WiFi cannot connect to router.
> 8. If you have problem during signal searching or router connection, you can reboot the router or restore factory settings. If the problem still exists, you can contact customer service for help.

Ⅵ SOLARMAN Monitoring

6.1 SOLARMAN Smart

6.1.1) If you are an household user, please scan QR code below to download SOLARMAN Smart APP.

6.1.2) Or you can log in to https://home.solarmanpv.com

SOLARMAN Smart

6.2 SOLARMAN Business

6.2.1) If you are an installer/service provider/manufacturer, please scan QR code below to download SOLARMAN Business APP.

6.2.2) Or you can log in to https://pro.solarmanpv.com

SOLARMAN Business

Ⅶ Contact

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