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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Please record the serial number of your monitor and quote this when you contact us.

GINLONG

GPRS Box

Quick Guide

Data Logging Box GPRS GL-G01

Version: 1.3

From this page

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

Data Logging Box GPRS can collect information of PV/wind system by GPRS communication through RS485/422 interface with convenient 'plug and play' function. With the integrated function, the kit can connect to router and transmit data to the web server, realizing remote monitoring for users.

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

A: Unpack

B: Install data logger

C: Connect data logger and inverters
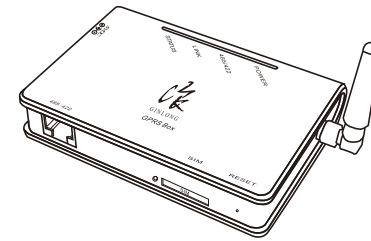
D: Create Ginlong Home account
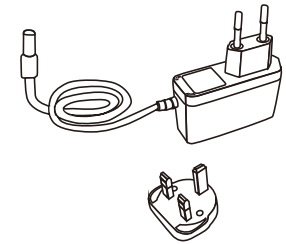
E: Create plants
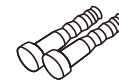
F: Dubug

A: Unpack

I. Checklist

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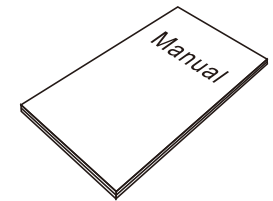

① 1 PV data logger (GPRS Box GL-G01)

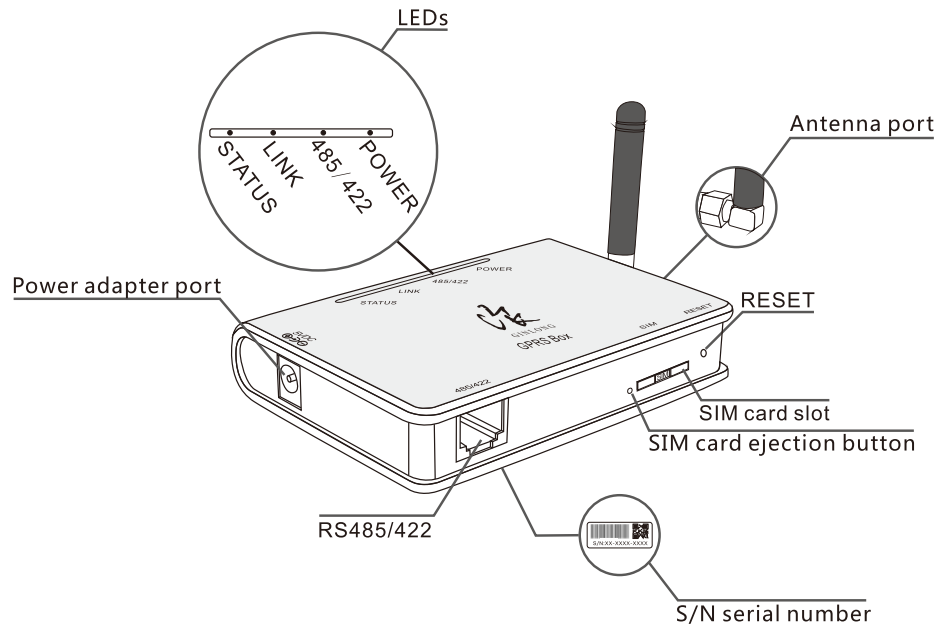② 1 power adapter with European or British plug

③ 2 screws

④ 2 expandable rubber hoses

⑤ 1 Quick Guide

II. Interface and connection

LEDs

STATUS LINK 485/422 POWER

Antenna port

Power adapter port

RESET

SIM card slot

SIM card ejection button

RS485/422

S/N serial number
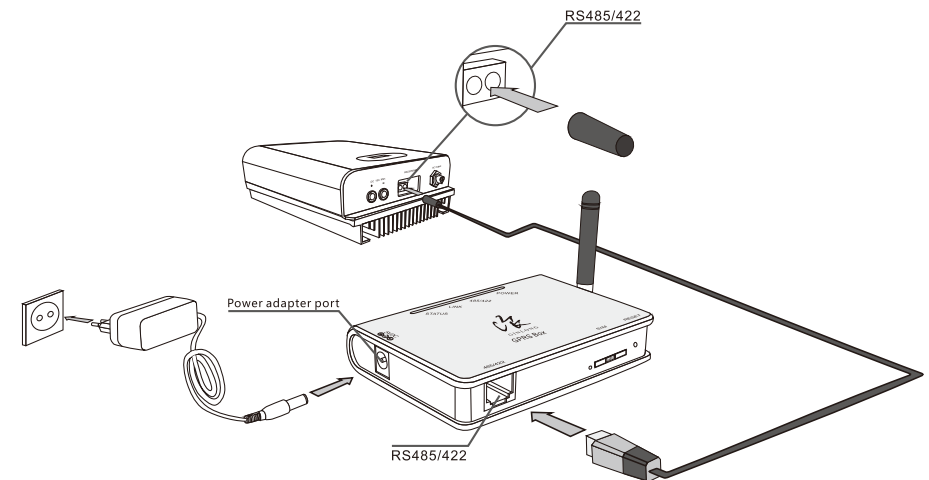
B: Install data logger

GPRS Box can be either wall-mounted or flatwise.

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.
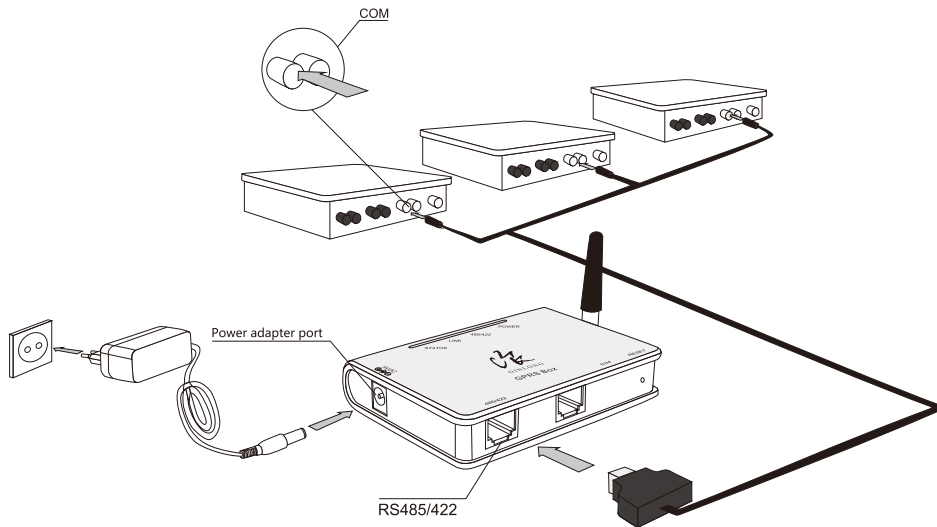
I. Connection with single inverter

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

RS485/422

Power adapter port

RS485/422

II. 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.

COM

Power adapter port

RS485/422

Notice: The connectors of the connection cable maydiffer according to the brands and models of connected inverters.
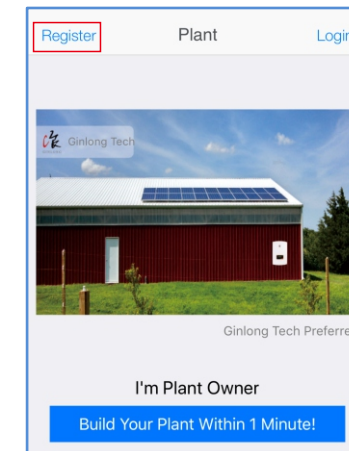
III. Confirm connection

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.
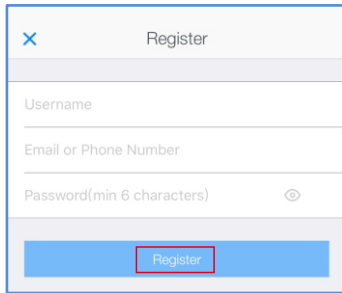
D: Create Ginlong Home account

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

End user, owner use   Installer, distributor use
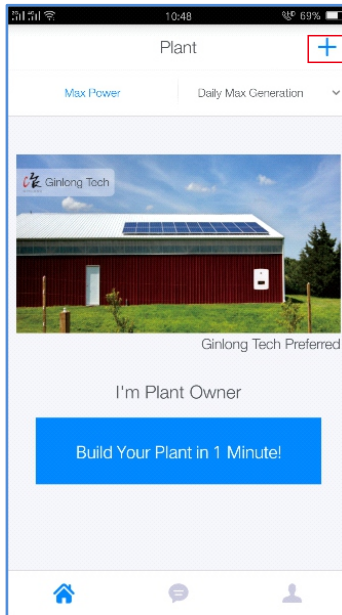
Step2: Click to register.

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

E: 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.
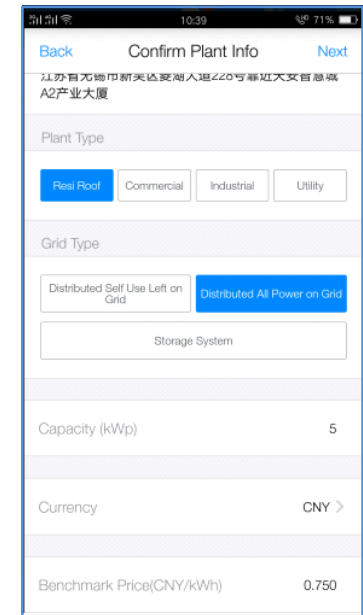

2: Scan the code

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.
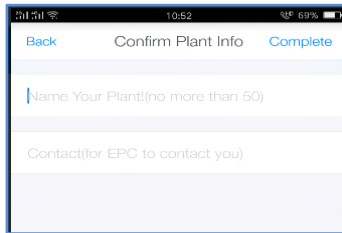
3: Input plant information

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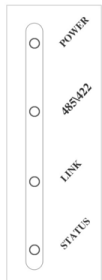
4: Enter the name of the station and the owner's contact number

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.

G: Debug

I. LED indication

LEDs	Status	Meaning
POWER	On	Power is normal
	Off	Power is abnormal
485\422	On	Connection between data logger and inverter is normal
	Flashing	Data is transmitting between data logger and inverter
	Off	Connection between data logger and inverter is abnormal
LINK	On	Data logger connected to server, connection is normal
	Flashing	Data is transmitting between data logger and server
	Off	Connection between data logger and server is abnormal
STATUS	On	GSM module is normal, with strong signal
	Flashing	GSM module is normal, with general signal
	Off	GSM module is normal, with weak signal; or GSM module is abnormal. Note: Abnormal means that network is not registered on GSM module

II. Trouble shootings

Phenomenon				Meaning	Solutions
POWER	485/422	LINK	STATUS		
On	On	On	On	Connection is normal, no data transmission	Normal, no solutions required.
On	Flashing	Flashing	On	Connection is normal, data is transmitting	Normal, no solutions required.
Off	Off	Off	Off	No power supply	Connect power supply and ensure good contacts.
On	Off	X	X	Connection with inverter is abnormal	Check the connection cable, and ensure that the cable order comply with T568B. Ensure the stability of RJ-45. Ensure that inverter is working under normal condition.
On	X	X	Flashing	GSM signal is too weak	Move data logger or adjust the antenna to other position for better signal
				Antenna is loose	Check if the antenna is loose; if so, please screw to tighten.
On	X	X	Off	GSM signal is weak	Move data logger or adjust the antenna to other position with better signal
				No SIM card or contact of SIM card is abnormal	Take SIM card out and install again.
				GSM module is abnormal	Power again.
				PIN password protection applied on SIM card	Disable PIN password protection on SIM card.
				Account of SIM card out of credit	Check the account of SIM card; if out of credit, please top up.
				Non-Chinese SIM card	Please contact your device customer service.

On	On	Off	On	Connection to remote server failed	Please contact your device customer service.

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.

III. Reset

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