

COMMUNICATION HUB



Version 1.1



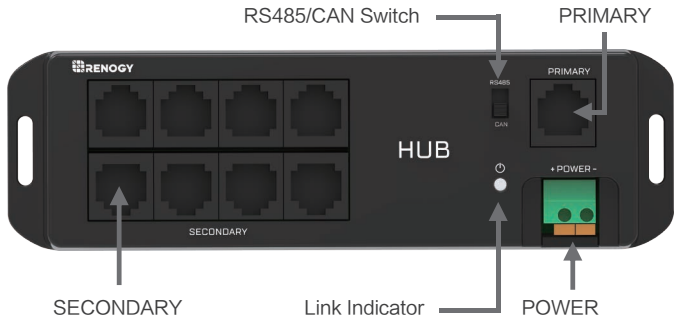
General Information

The Renogy Communication Hub allows you to connect multiple Renogy appliances with an RJ45 port and RS485 communication protocol to just one BT-2 Bluetooth module. Now you can use your phone to monitor multiple devices at the same time! The Renogy Communication Hub also supports both RS485 and CAN communication protocols – giving you a wider selection of compatible devices.

Key Features

- Monitor multiple devices at the same time with a single Bluetooth module.
- Connect to our user-friendly smart phone App, Renogy DC Home, to keep track of your system
- Supports both RS485 and CAN communication protocol
- Green LED lights indicate which communication protocol is currently on

Identification of Parts



Operation

■ Connection

When connecting multiple Renogy devices to Bluetooth through the HUB for the first time, each device needs to be connected to the HUB and registered on Renogy DC Home App SEPARATELY. This process is used to assign an address to each device, which is equivalent to registering an "ID card". After each device performs data transmission, all devices can be connected to the HUB and operate together with the App. The "ID card" won't be affected by the power failure, so this process is only needed at the first connection.

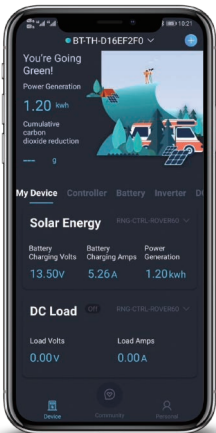
Step 1

Connect the battery to the POWER port of the HUB using the power cable; Press the orange spring terminal, insert the power cable, and connect it tightly.



Step 2

Connect the BT-2 Bluetooth module to the PRIMARY port of the HUB; Put the switch at RS485.



Step 3

Connect one Renogy device to the HUB; Register the device on the DC Home App via BT-2 Bluetooth module.

Take the Smart Lithium Battery as an example. Use a communication cable to connect the UP port of the battery to any SECONDARY port of the HUB. Open the Renogy DC Home app, connect your phone/tablet with BT-2 via Bluetooth. After successfully registering the battery as a device on the App, you can read the battery data on your phone.

Note: In this step, only one SECONDARY port can be used to connect to devices.



Step 4

Before connecting the next device, disconnect the previous device from the SECONDARY port;

Repeat Step 3 to connect another Renogy device.

The diagram shows connecting a charge controller to the HUB.



Step 5

Repeat Step 4 to connect any other devices.

The diagram shows connecting an inverter to the HUB.



Step 6

The last step is to reconnect all registered devices to the HUB; All devices will be automatically connected to the App.



■ Communication status indicator

Green Communication Indicator:

Link Indicator	Status	Note
	Solid (Green)	RS485
Flash (Green)	CAN	

■ Compatible Models

Compatible Models	All Renogy Products with RJ45 Port
Communication Protocol	RS485 and CAN
Port Type	RJ45

Technical Specifications

Description	Parameter
Model	Communication Hub
Input Voltage	9V-60V
Standby Power Consumption	0.324w
Operating Power Consumption	<0.35W
Communication Range	≤82ft
Serial Baud Rate	RS485-9600 bps CAN-500 kbps
Communication Protocol	RS485 CAN
Port Type	RJ45
Cable Length	5.00m (16.4ft)
Dimensions	160*48*23mm 6.29*1.89*0.91in
Installation Dimensions	151.4 φ3.5mm (5.96 φ 0.14in)
Operation Temperature	-20℃~85℃ (-4°F to 185°F)
Weight	125g (4.41oz)

■ To Download App

1. The Android version of the Renogy DC Home APP is available to download on Renogy.com and the Google Play Store.

In the Google Play Store, simply search “Renogy DC Home” in App store to download.

2. For IOS version, simply search “Renogy DC Home” in App store to download.

Renogy reserves the right to change the contents of this manual without notice.

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