Data Logger FAQ

How to connect an Energy meter to Logger1000

Applicable to: Logger1000

1. Log in to the Web interface of Logger 1000

WiFi-login

Logger1000 supports WiFi-login. After the device is powered, check the SN code on the device and select the WiFi hotspot signal named SG-XXXX (XXXX is the device SN) to connect to WiFi.

Enter the default IP address of Logger 1000 in the browser address bar after the device is connected: 11.11.11.1 to open the device management interface, the initial password is pw1111.

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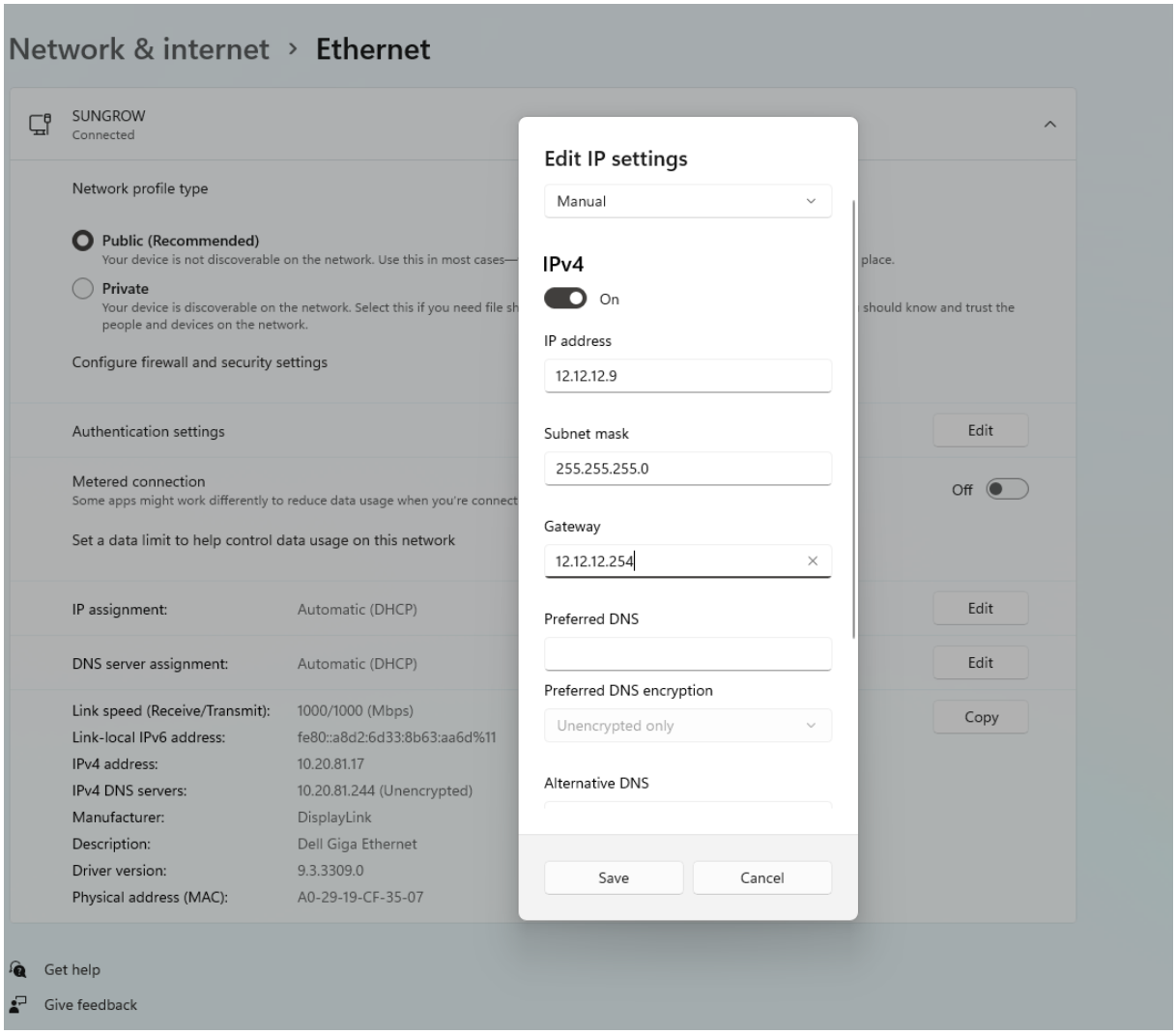
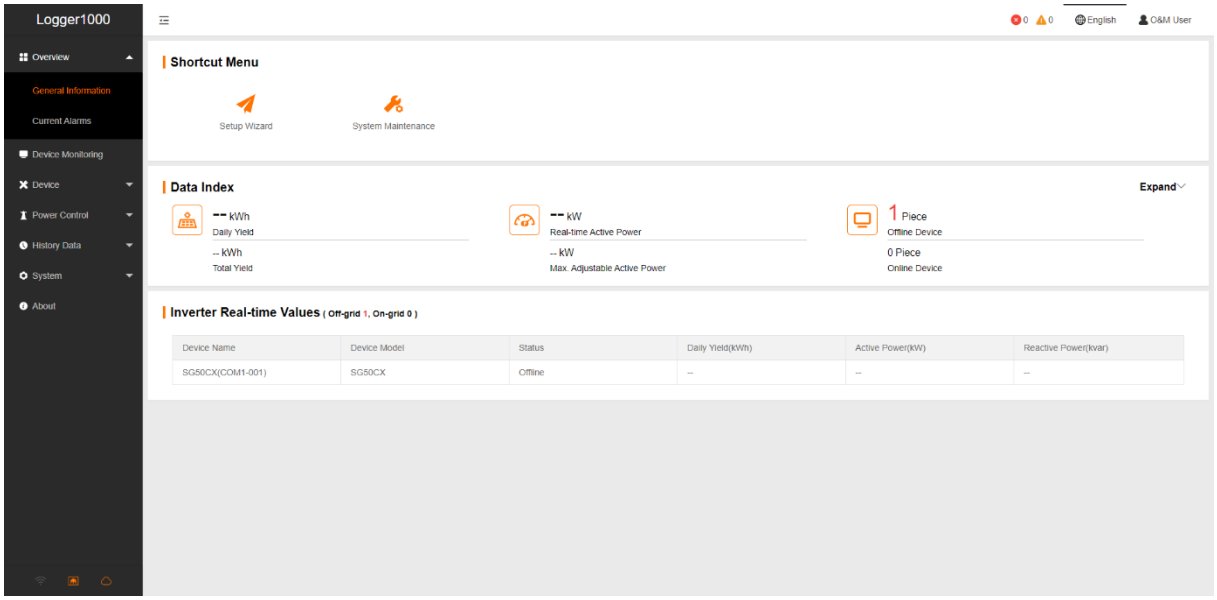
Ethernet login

Logger 1000 also supports Ethernet login. The default IP address of Logger 1000 is 12.12.12.12. First, after the device is powered, use the network cable to connect it with the computer, and change the IP address of the computer to make it in the same network segment as the device, as shown in the following figure.



Enter the default IP address of Logger 1000 in the browser address bar after the device is connected: 12.12.12.12 to open the device management interface, and the initial password is pw1111. After logging in, the main interface of Logger1000 is shown in the following figure.

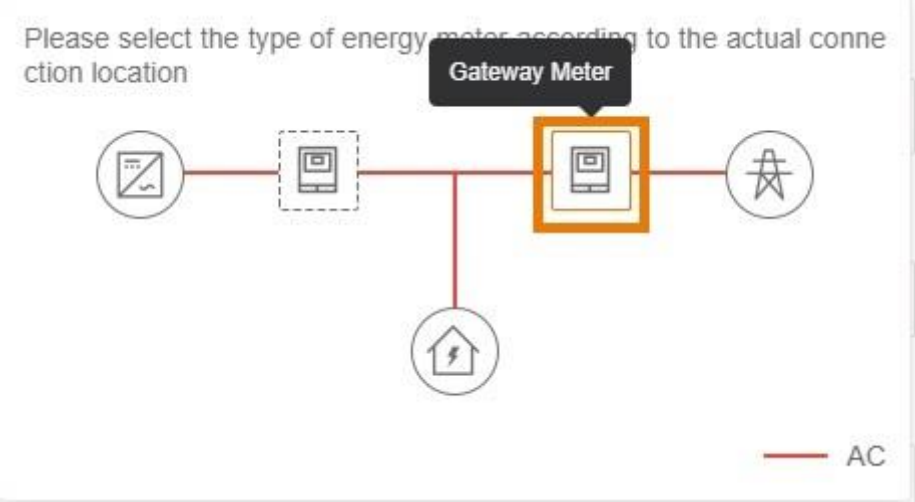


2. Add energy meter

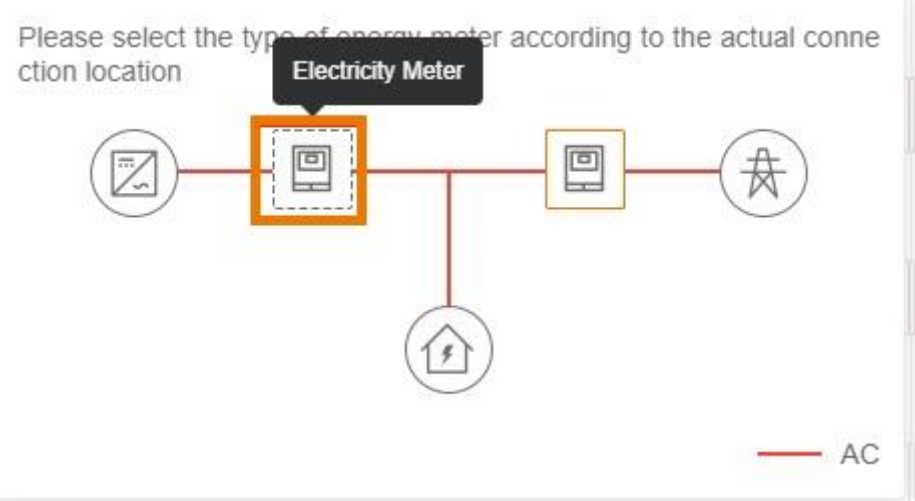
2.1 When adding an energy meter, please pay attention to the parameter settings such as the baud rate of RS485 terminal of data collector and the calibration, which should be consistent with the energy meter.

2.2 Pay attention to the connection mode of CT and PT when installing the energy meter. Whether the CT is installed in the correct direction can be judged by power. If the active power of the energy meter is positive, it means taking electricity from the power grid, and if the active power of the energy meter is negative, it means feeding electricity to the power grid.

2.3 Gateway meter: Shows load side information:



2.4 Electricity meter: Only shows PV-side information, and not measure load-side information:

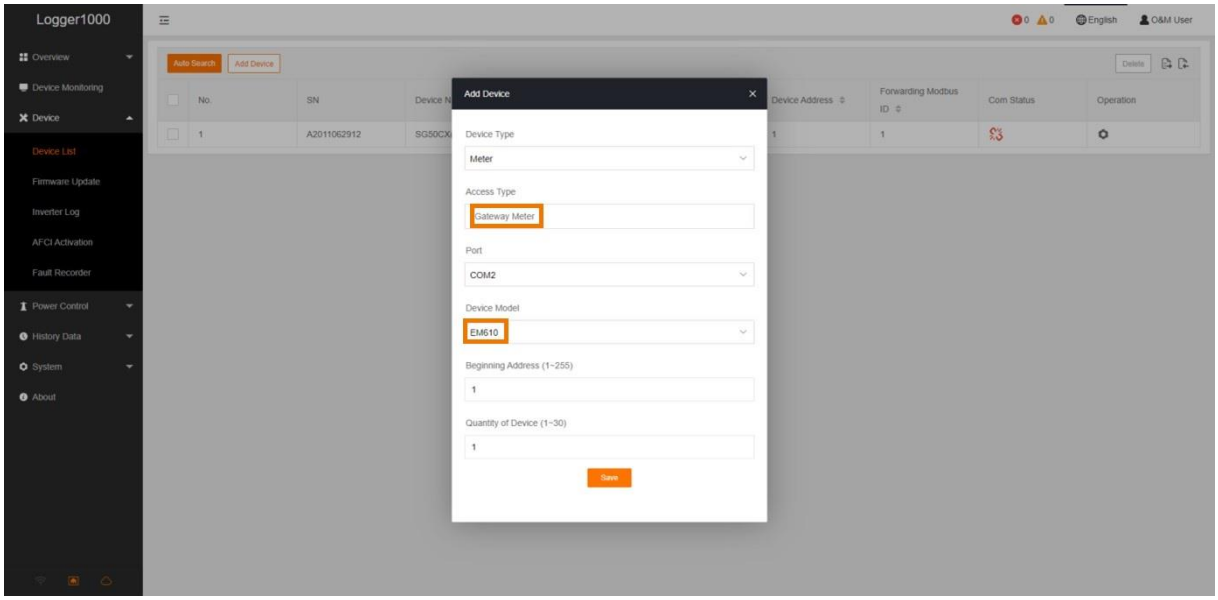


3. Add EM610 energy meter

EM610 default communication parameters: Beginning address 1, baud rate 115200bps, data bit 8, non parity, stop bit 1.

3.1 Connect the energy meter and data collector correctly with RS485 communication line. The data collector has three RS485 interfaces. A1B1, A2B2 and A3B3, which correspond to COM1, COM2 and COM3 respectively. You can choose any one of them when connecting the energy meter. A in the RS485 interface of the EM610 energy meter is connected to B in the RS485 interface of the data collector, and B in the RS485 interface of the EM610 energy meter is connected to A in the RS485 interface of the data collector.

3.2 To add energy meter, click: Device -> Device List -> Add Device.



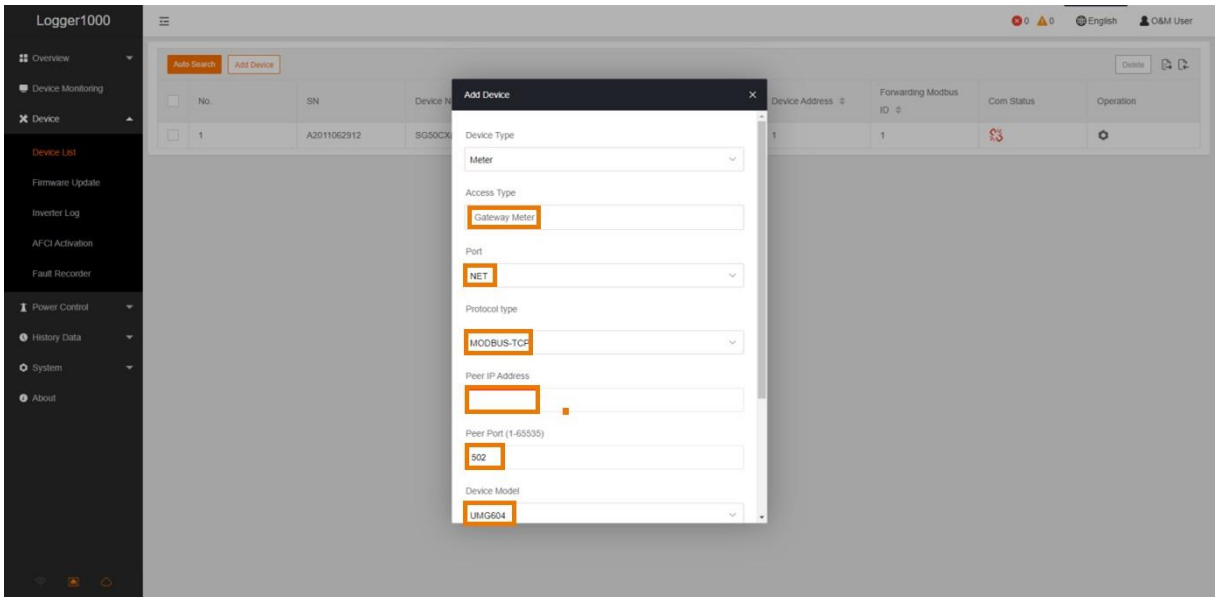
4. Add UMG604 energy meter

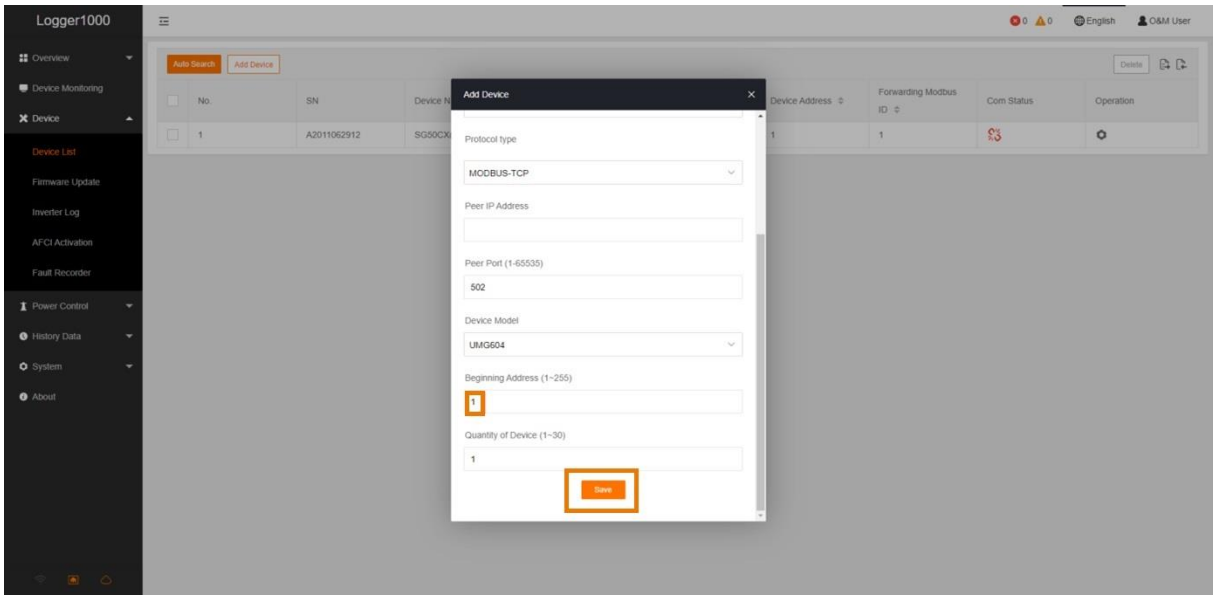
4.1 The UMG604 energy meter is connected to the data collector with a network cable in two ways:

A: Connect the energy meter and data collector directly with the network cable.

B: Transfer through the router. First connect the energy meter to the router with a network cable, then connect the data collector to the router with another network cable.

4.2 To add energy meter, click: Device -> Device List -> Add Device.



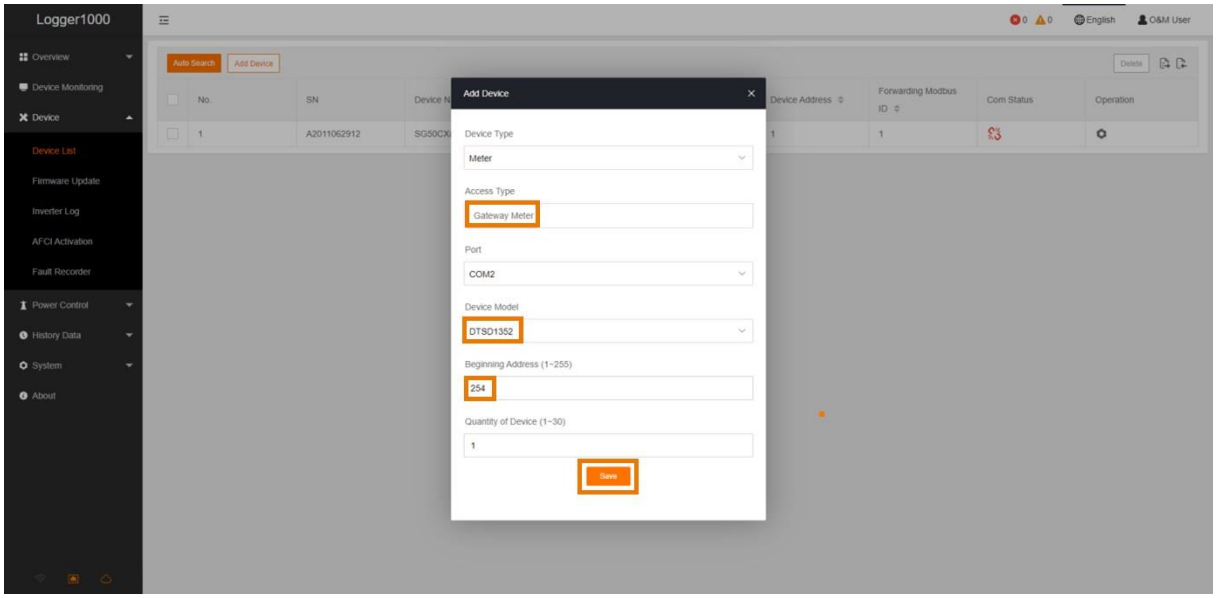


5. Add DTSD1352 energy meter

5.1 DTSD1352 default communication parameters: Default protocol Modbus_RTU, address 254, baud rate 9600bps, data bit 8, non parity, stop bit

5.2 Connect the RS485 line, connect the first 485 port of the energy meter to the RS485 port of data collector, correspondingly connect the energy meter with the RS485 port of the data collector, connect the A of the energy meter with the A of Logger1000, and connect the B of the energy meter with the B of Logger1000.

5.3 To add energy meter, click: Device -> Device List -> Add Device.

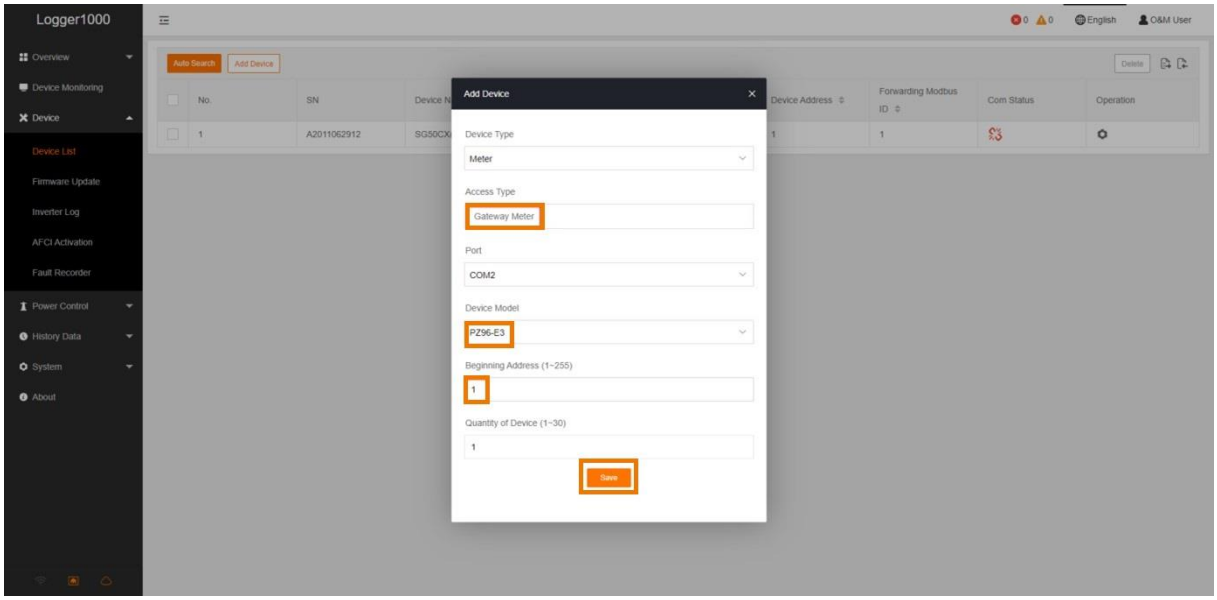


6. Add PZ96-E3 energy meter

PZ96-E3 default communication parameters: Default protocol Modbus_RTU, address 1, baud rate 9600bps, data bit 8, non parity, stop bit 1.

6.1 Connect the RS485 line, connect the first 485 port of the energy meter to the RS485 port of data collector, correspondingly connect the energy meter with the RS485 port of the data collector, connect the A of the energy meter with the A of Logger1000, and connect the B of the energy meter with the B of Logger1000.

6.2 To add energy meter, click: Device -> Device List -> Add Device.

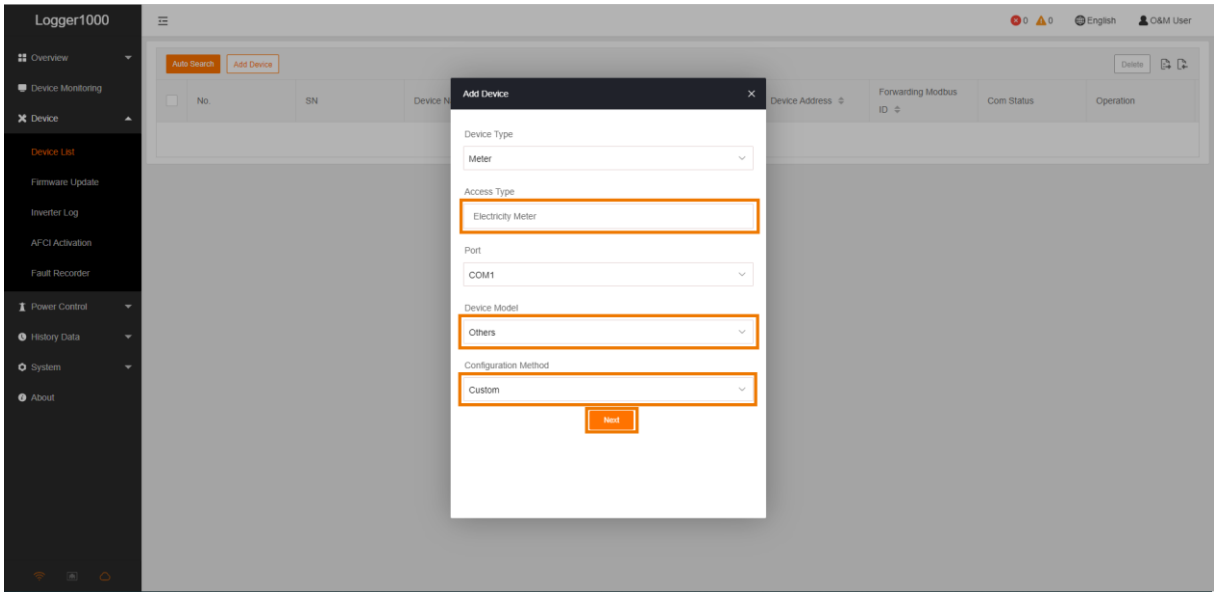


7. Add custom meter

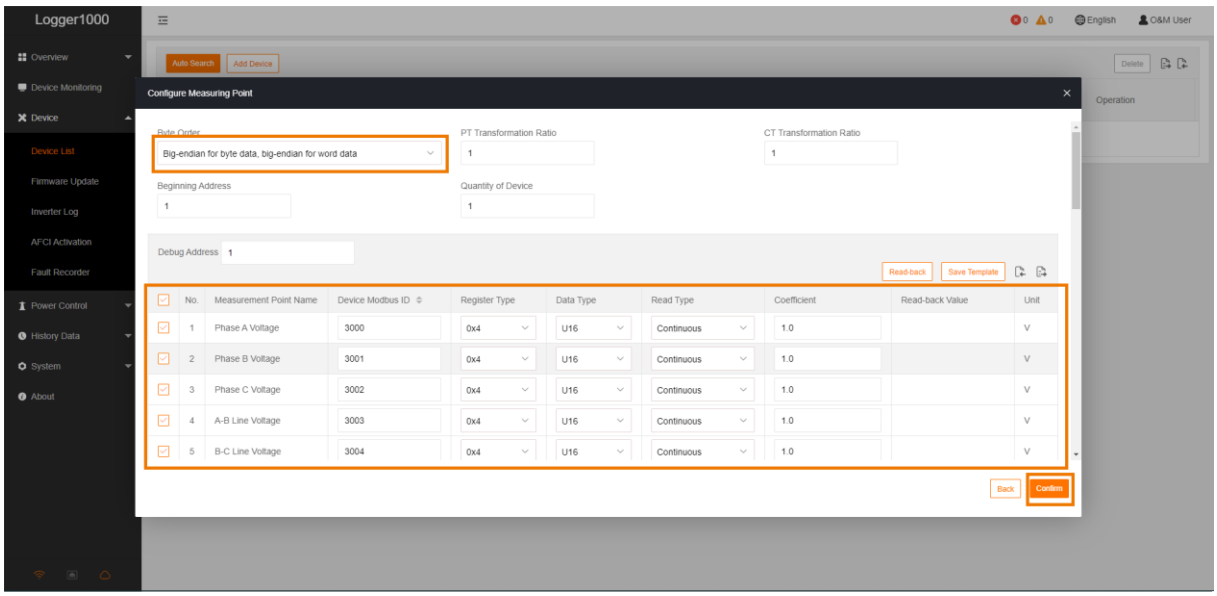
7.1 Connect the RS485 line, connect the first 485 port of the energy meter to the RS485 port of data collector, correspondingly connect the energy meter with the RS485 port of the data collector, connect the A of the energy meter with the A of Logger1000, and connect the B of the energy meter with the B of Logger1000.

7.2 To add energy meter, click: Device -> Device List -> Add Device.

7.3 Refer to the steps below and choose Next.



7.4 Check the parameters on the next page and set them according to the meter.



For further information, please download the user manual here.

This manual is intended for professional technicians who are responsible for installation, operation, maintenance and troubleshooting of inverters, and users who need to check inverter parameters. The inverter must only be installed by professional technicians.
The professional technician is required to meet the following requirements:

- Know electronic, electrical wiring and mechanical expertise, and be familiar with electrical and mechanical schematics.
- Have received professional training related to the installation, commissioning and troubleshooting of electrical equipment.
- Be able to quickly respond to hazards or emergencies that occur during installation, commissioning and troubleshooting.
- Be familiar with local standards and relevant safety regulations of electrical systems.
- Read this manual thoroughly and understand the safety instructions related to operations.

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