Wireless Meter Solution

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1. Background

In practical use, traditional wired electric meters often face many problems such as wiring difficulties. So we proposed a product solution for wireless meters. This solution adds a wireless gateway on the inverter side to achieve wireless communication, greatly simplifying the installation process while reducing wiring costs and system complexity.

2. System Solution

2.1 wireless modules introduction

Mode：CHINT---SMG666-smart gateway

Main technical parameters:

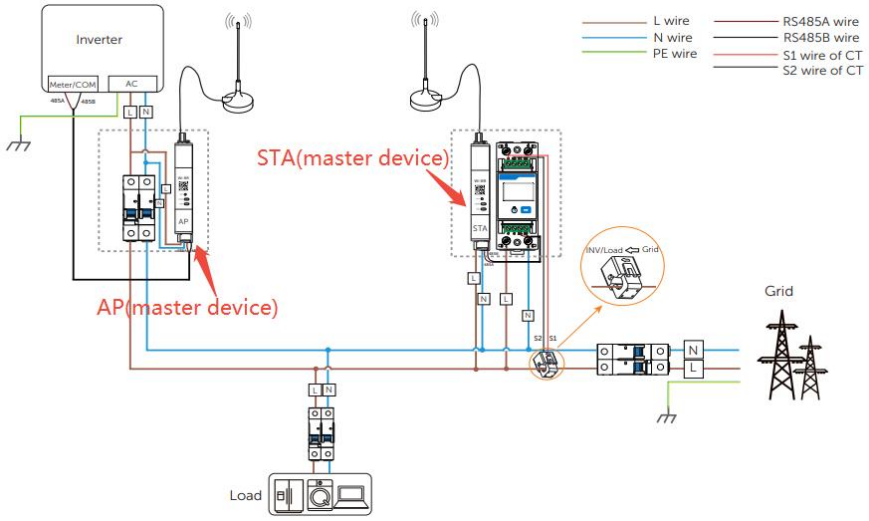
Project name	Technical indicators
Working mode	AP(master device)/STA(slave device)
Communication method	RS485/wireless communication
Operating voltage	85 - 277V ac
Maximum power	2W
Operating temperature	-25℃ ～+55℃
Wireless transmission distance	≤200m

Note：

1. The actual distance of wireless transmission is affected by the external environment.
2. The EPM response time maybe longer than wired meter.

2.2 wireless modules Connection

The diagram is as follows:



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3. Function Instructions

Inverter side：

1. AP(master device) connected to the inverter, installed nearby the grid port;
2. RS485 connected to the inverter meter port, RS485 A to inverter port meter A, RS485 B to inverter port meter B;
3. Connect the Antenna and place in a suitable location;
4. Plug in the power supply(220V/230V);

Meter side:

1. STA(slave device) connected to the meter, installed nearby the meter;
2. Connect the communication between the wireless module and meter, RS485 A to meter A, RS485 B to meter B;
3. Connect the Antenna and place in a suitable location;
4. Plug in the power supply(220V/230V);

wireless modules LED indicator function

LED Light Type	LED status	Status Description
RUN Light (RUN)	Steady green	RS485 communication is normal
	Blinking green	The RS485 communication is abnormal
	The green is off	The device is not powered on
Communication Light (COMM)	Steady green light	The AP and STA are successfully connected
	Green flashing	Wireless data transfer between the AP and STA (AP/STA flashing: AP/STA transfers data)
	Red light flashing	The AP and STA make a paired connection
	Steady red	The AP and STA failed to connect

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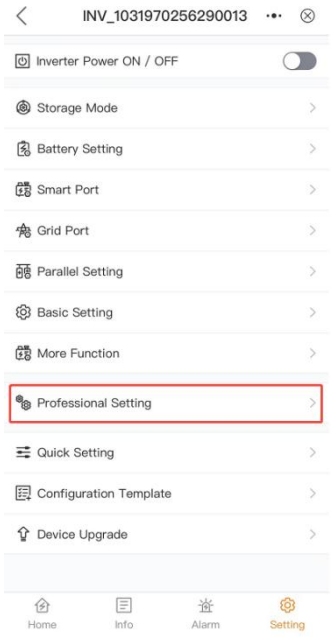
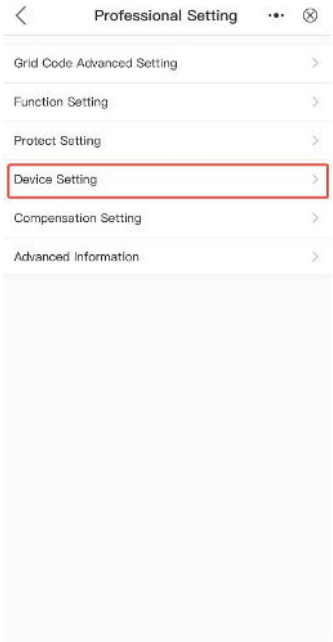
4. Setting path

4.1 APP setting path

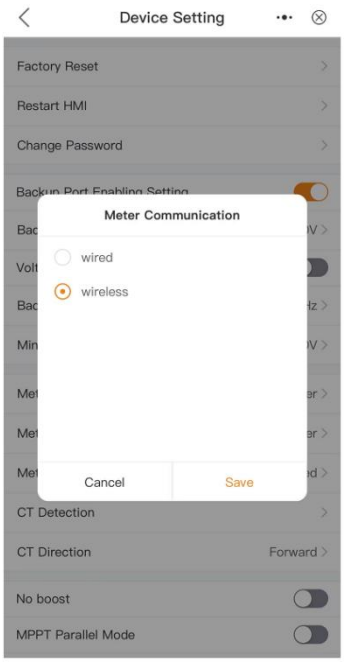
Via bluetooth APP setting is as follows:











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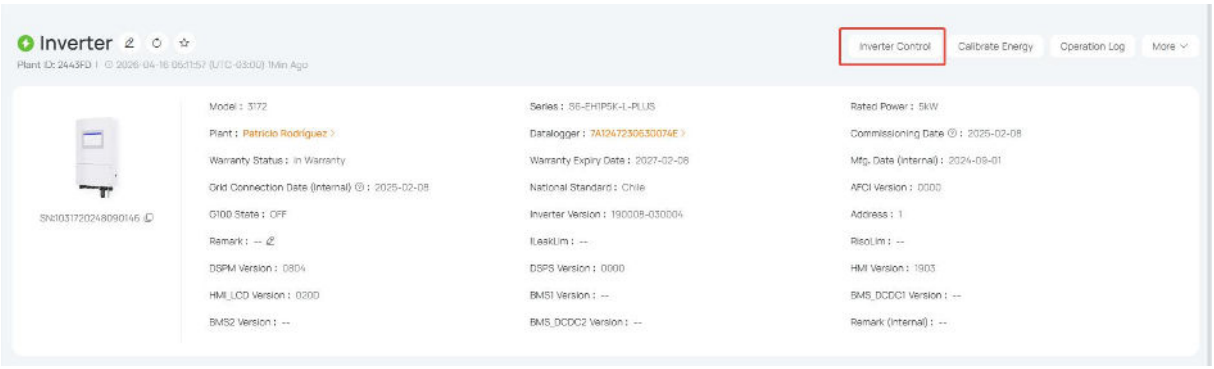
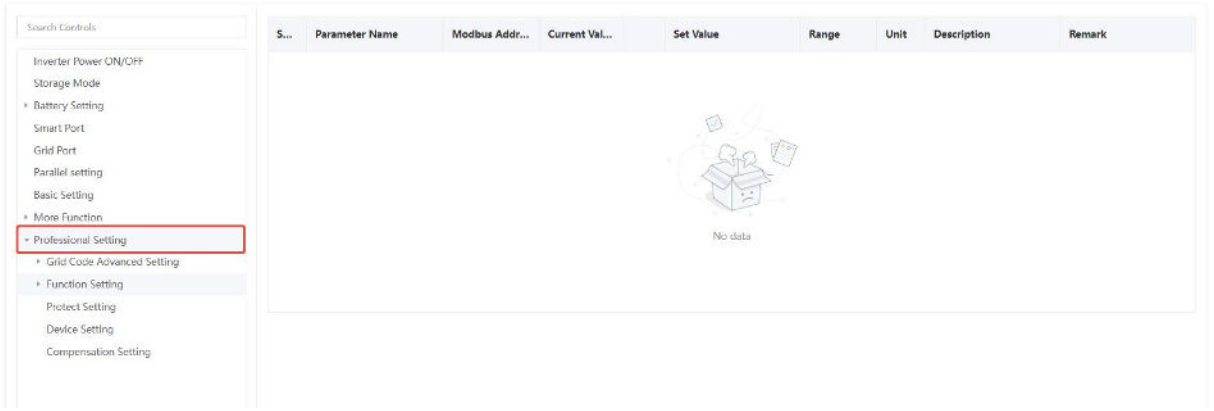
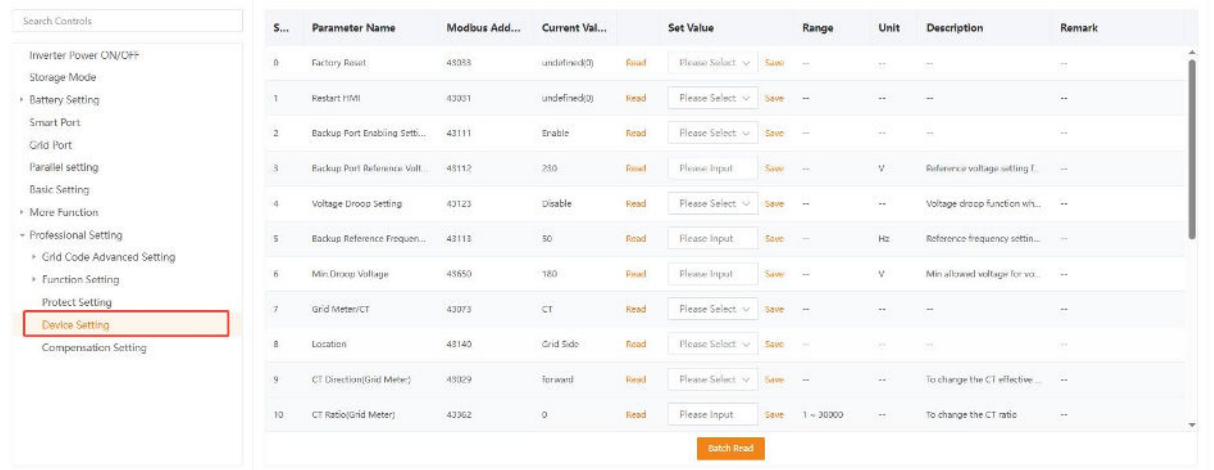
4.2 Soliscloud setting path

Enable Path: Inverter control → Professional Setting → Device Setting → Meter Communication







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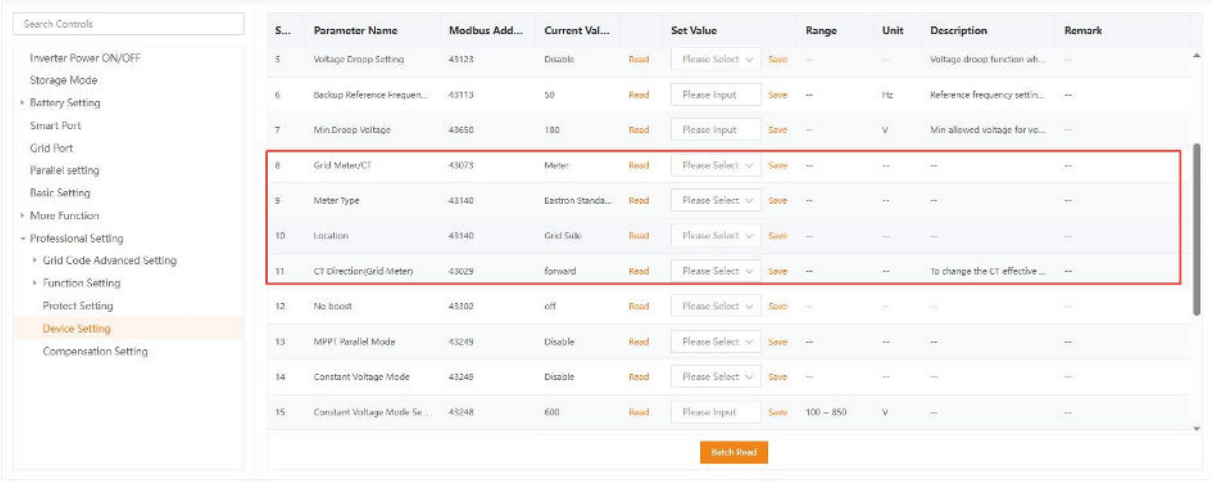

5. Applicable Models & FW version

No	Product series	FW requirement
1	S6-EH1P(3-10)K-L-PLUS	DSP: 1607 and above version ARM: 2B08 and above version LCD：0E07 and above version
2	S6-EH1P(9.9-18)K03-NV-YD-L	DSP：0D03 and above version ARM：2B08 and above version LCD：0E07 and above version
3	S6-EH3P(8-15)K02-NV-YD-L	DSP：0F05 and above version ARM：0D06 and above version LCD：0A60 and above version
4	S6-EH3P(5-12)K-H	DSP：1104 and above version ARM：1D0D and above version
5	S6-EA3P(5-10)KAA-NV-YD-H-PRO	DSP：TBD ARM：TBD LCD：TBD 30th September provide
6	S6-EH3P(12-20)K-H	DSP：TBD ARM：TBD LCD：TBD 30th September provide

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