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Doc Type: User Instruction	Doc Number : GL.UI030103	Version : V1.0	Confidentiality: High	Page 1 of 8

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:

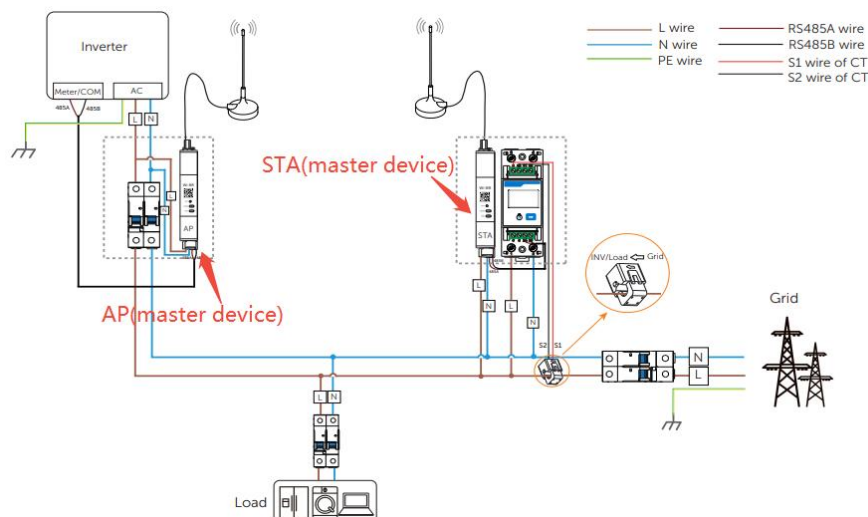
Project name	Technical indicators
Working mode	AP(master device)/STA(slave device)
Communication method	RS485/wireless communication
Operating voltage	85 - 277V ac
Maximum power	2W
Operating temperature	-25℃ ~ +55℃
Wireless transmission distance	≤200m

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

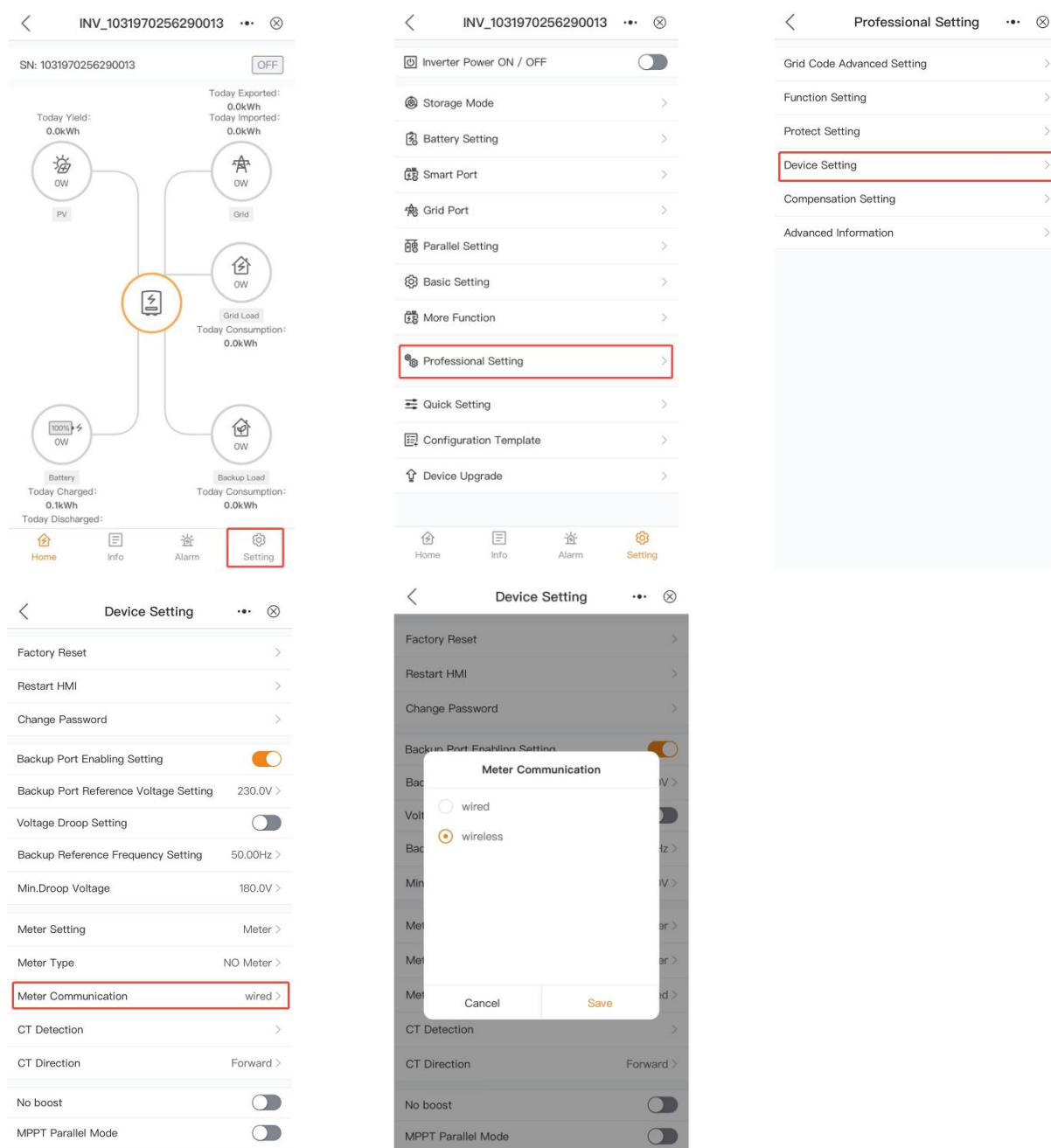
LED Light Type	LED status	Status Description
RUN Light (RUN)	Steady green	RS485 communication is normal
	Blinking green	The RS485 communication is abnormal
	The green is off	The device is not powered on
Communication Light (COMM)	Steady green light	The AP and STA are successfully connected
	Green flashing	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

 Inverter

Plant ID: 2443FD

2026-04-16 05:11:57 (UTC-03:00) 1Min Ago

Model : 3172

Plant : [Patricio Rodriguez](#)

Warranty Status : In Warranty

Grid Connection Date (Internal) : 2025-02-08

GI00 State : OFF

Remark : --

DSPM Version : 0804

HMI_LCD Version : 0200

BMS2 Version : --

Series : S6-EHIP5K-L-PLUS

Datalogger : [7A1247230630074E](#)

Warranty Expiry Date : 2027-02-08

National Standard : Chile

Inverter Version : 190008-030004

ILeakLim : --

DSPS Version : 0000

BMS1 Version : --

BMS_DCDC2 Version : --

Rated Power : 5kW

Commissioning Date : 2025-02-08

Mfg. Date (Internal) : 2024-09-01

AFCl Version : 0000

Address : 1

RisoLim : --

HMI Version : 1903

BMS_DCDC1 Version : --

Remark (Internal) : --

Search Controls

Inverter Power ON/OFF

Storage Mode

Battery Setting

Smart Port

Grid Port

Parallel setting

Basic Setting

More Function

Professional Setting

Grid Code Advanced Setting

Function Setting

Protect Setting

Device Setting

Compensation Setting

S...	Parameter Name	Modbus Addr...	Current Val...	Set Value	Range	Unit	Description	Remark
 No data								

Search Controls

Inverter Power ON/OFF

Storage Mode

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Compensation Setting

S...	Parameter Name	Modbus Addr...	Current Val...	Set Value	Range	Unit	Description	Remark	
0	Factory Reset	43033	undefined(0)	Read	Please Select	Save	--	--	--
1	Restart HMI	43031	undefined(0)	Read	Please Select	Save	--	--	--
2	Backup Port Enabling Setti...	43111	Enable	Read	Please Select	Save	--	--	--
3	Backup Port Reference Volt...	43112	230	Read	Please Input	Save	--	V	Reference voltage setting f...
4	Voltage Droop Setting	43123	Disable	Read	Please Select	Save	--	--	Voltage droop function wh...
5	Backup Reference Frequen...	43113	50	Read	Please Input	Save	--	Hz	Reference frequency settin...
6	Min.Droop Voltage	43650	180	Read	Please Input	Save	--	V	Min allowed voltage for vo...
7	Grid Meter/CT	43073	CT	Read	Please Select	Save	--	--	--
8	Location	43140	Grid Side	Read	Please Select	Save	--	--	--
9	CT Direction(Grid Meter)	43029	forward	Read	Please Select	Save	--	--	To change the CT effective ...
10	CT Ratio(Grid Meter)	43362	0	Read	Please Input	Save	1 ~ 30000	--	To change the CT ratio

Batch Read

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Search Controls

Inverter Power ON/OFF

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Basic Setting

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Protect Setting

Device Setting

Compensation Setting

S...	Parameter Name	Modbus Add...	Current Val...		Set Value	Range	Unit	Description	Remark
5	Voltage Droop Setting	43123	Disable	Read	Please Select	Save	--	Voltage droop function wh...	--
6	Backup Reference Frequen...	43113	50	Read	Please Input	Save	Hz	Reference frequency settin...	--
7	Min.Droop Voltage	43650	180	Read	Please Input	Save	V	Min allowed voltage for vo...	--
8	Grid Meter/CT	43073	Meter	Read	Please Select	Save	--	--	--
9	Meter Type	43140	Easton Standa...	Read	Please Select	Save	--	--	--
10	Location	43140	Grid Side	Read	Please Select	Save	--	--	--
11	CT Direction(Grid Meter)	43029	forward	Read	Please Select	Save	--	To change the CT effective ...	--
12	No boost	43302	off	Read	Please Select	Save	--	--	--
13	MPPT Parallel Mode	43249	Disable	Read	Please Select	Save	--	--	--
14	Constant Voltage Mode	43249	Disable	Read	Please Select	Save	--	--	--
15	Constant Voltage Mode Se...	43248	600	Read	Please Input	Save	100 ~ 850 V	--	--

Batch Read

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 30 th September provide
6	S6-EH3P(12-20)K-H	DSP: TBD ARM: TBD LCD: TBD 30 th September provide

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