Single-phase Remote Control Meter (GPRS) Quick Guide
Model: DDZY422-D2

1、Product Introduction

Single-phase Remote Control Meter (GPRS) (DDZY422-D2) is applied for energy management purpose, and it works to measure and control electricity consumption of PV system, power system, construction industry and etc,. A real-time, accurate and quick measurement of voltage, current, active power, frequency, power factor, positive/negative active energy and etc, has been realized.

2、Parameters

	Parameter	Value
Communication	Wireless Type	GPRS
	Working Frequency	GSM850/EGSM900/DCS1800/PCS1900MHz
	Local COM	RS485
	Serial Parameter	Address 001、9600bps、E、8、1
	Data Interval	5 mins
Meter	Rated Voltage	AC 230V 5(60)A 50/60Hz
	Power Range	0～999999.99kWh
	Accuracy Class	1.0
	Consumption	≤3.5W
Environment	Working Temperature	-30℃～+70℃
	Relative Humidity	≤85%(No condensation), Altitude<3000m
	Atmospheric Pressure	70kPa～106kPa
	Transportation & Storage	Temperature: -40℃～85℃, Relative Humidity≤85%

3、Display

3.1 Display Panel (Note: "*" represents single number, "#" represents "-".)

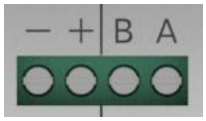
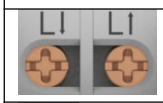
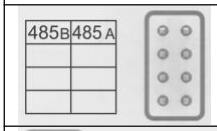
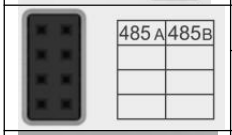
Flip-screen Mode: Auto-flip in 2s/Click to flip the screen.

No.	Content	Display Form	Unit	No.	Content	Display Form	Unit
1	Positive Active Total Energy (High 4-bit)	****	kWh	5	Current	L #**	A
2	Positive Active Total Energy (Low 4-bit)(Two decimal)	**.**	kWh	6	Power	P #**	kW
3	MODBUS COM Address	A ***		7	Power Factor	PF *.*	
4	Voltage	U ***	V	8	Frequency	F **.*	

3.2 Display of Positive Active Total Energy (4-bit liquid crystal,2 decimal)

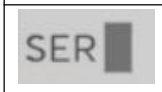
Data is less than 99.99, E,g. "68.52":	Data is greater than 99.99, E.g. "220968.52":
	

4、Interface Instruction

		Switch	Close: Press for 3s Open: Press for 3s
	B	RS485 A Receive&Send Data	Address 001、9600bps、E、8、1
	A	RS485 B Receive&Send Data	
	+	Pulse Port	Calibration Interface
	−	Pulse Port	
	L↓	L-Line In	L-line Interface
	L↑	L-Line Out	
	N	N-Line In&Out	N-Line Interface
	485B	RS485 B Receive&Send Data	Address 001、9600bps、E、8、1
	485A	RS485 A Receive&Send Data	
	Pin1	RS485 A Receive&Send Data	Address 001、9600bps、E、8、1
	Pin2	RS485 B Receive&Send Data	
		Reset button	Restart(5s)/Reset(10s)

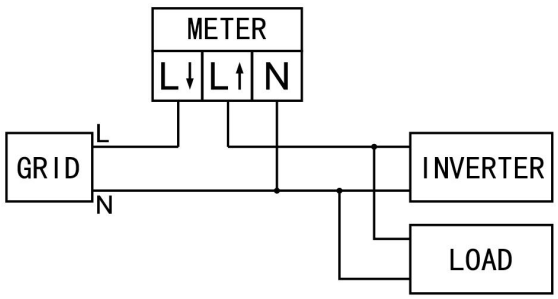
Notice: RS485A, RS485B of Pin,Female Header are directly connected.

5、Indicator Lights

Indication	Identification	Status
	ON/OFF Switch (Green)	1.On: Close 2.Off: Open
	Electric Energy Pulse (Red)	1.Flash: According to consumption status. (1200 times means 1kWh)
	Communication status between meter and WiFi module (Green)	1.On: Connected to meter. 2.On 400ms/Off 400ms: Data transmitting. 3.Off: Fail to communicate with to meter.
	Communication status between logger and server (Green)	1.On: Connected to server. 2.On 400ms/Off 400ms: Connected to router, not connected to server. 3.Off:Fail to connect to router.
	Running Status (Green)	1.On 64ms/Off 2000ms: WiFi module runs normally. 2.On/Off: WiFi module runs abnormally.

6. Installation Diagram

Installation Position: Grid Side



7、 Monitoring

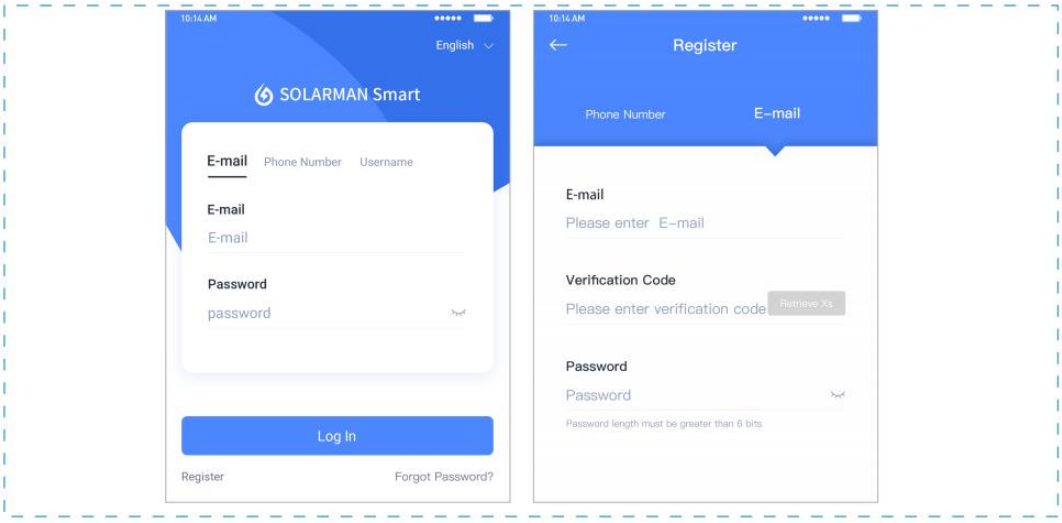
7.1 Download app

SOLARMAN Smart
for end user

iPhone: Search “Solarman Smart” in Apple Store.
Android: Search “Solarman Smart” in Google Play.

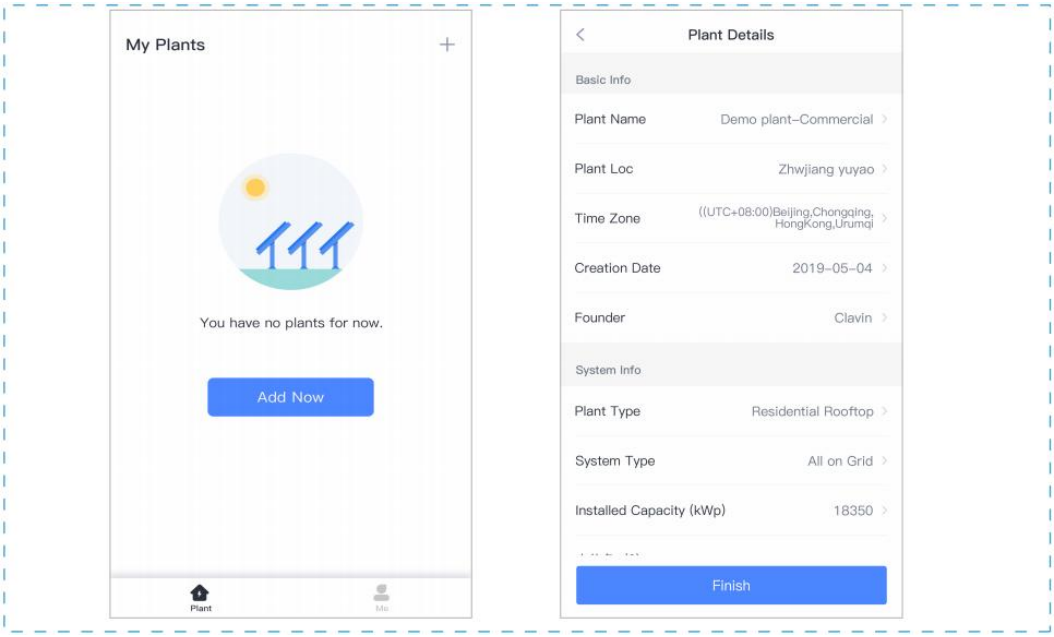
7.2 Registration on SOLARMAN SMART

Go to SOLARMAN SMART and register. Click “Register” and create your account here.



7.3 Create a Plant

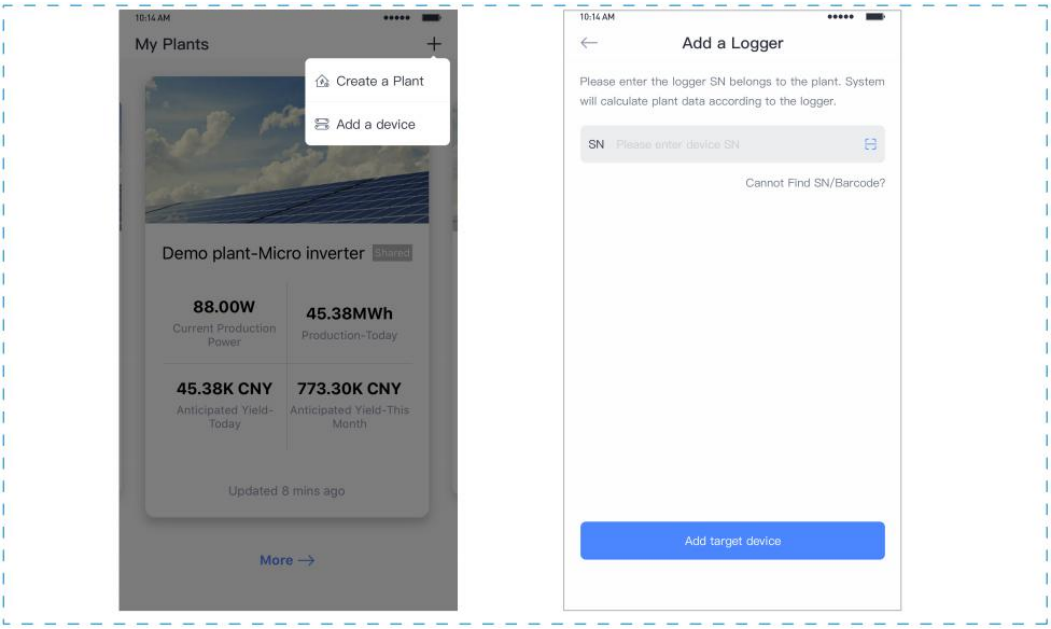
Click "Add Now" to create your plant. Please fill in plant basic info and other info here.



7.4 Add a Device

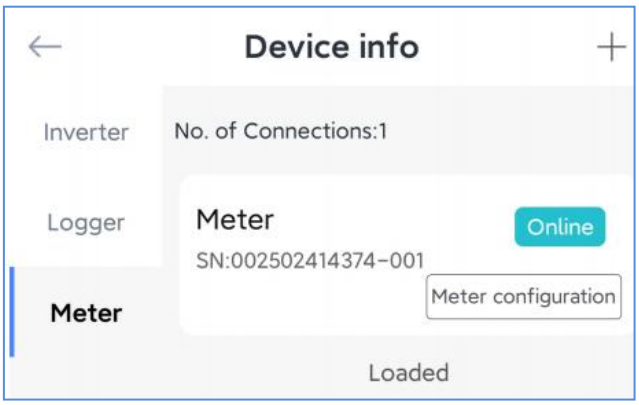
Method 1: Enter logger SN manually.

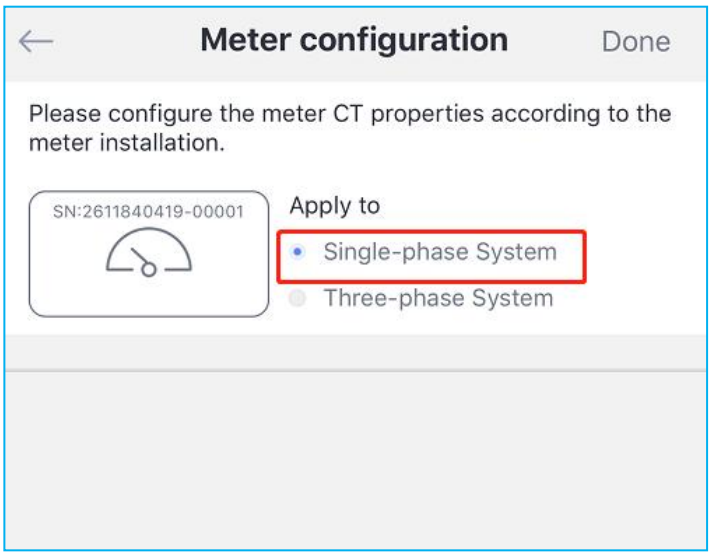
Method 2: Click the icon in the right and scan to enter logger SN You can find logger SN in the external packaging or on the logger body.



7.5. Meter Configuration

Go to「Device Info」and click “Configure” button.





Solar Europe Importers
info@solar-europe.co.za
www.solar-europe.co.za
087 654 4800