



Energy Meter

SDM230

User Manual

Please read this guide carefully before use.

1 Notes and Safety

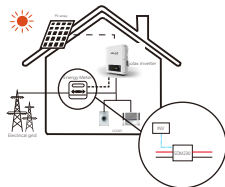


Cut off all power of inverter before installation!
Wait for 5 minutes after power off.

2 Installation

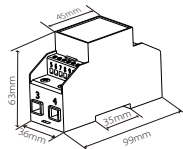
1 Basic features

SDM230 Meter can achieve energy management together with solax single phase inverter. It applies to 100A system on below, measure the import, export and total power and energy.



01

2 Terminals and Dimension



1-4	Acquisition port
5,6	RS485 port

02

3 Installation

1 Mounting

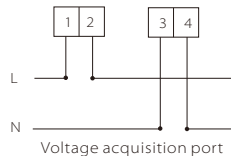
SDM230 meter is designed for indoor installation. It could be installed on the wall or other place indoor.



03

2 Wiring diagram

cable size: $\geq 10\text{AWG}$ or $\leq 6\text{mm}^2$



04

www.solaxpower.com

614.00326.01



③ Wiring Connection

- Step 1: RS485 terminal connection
1. Prepare a communication cable.
 2. Strip the insulation from the communication cable.
 3. Connect the meter communication cable and inverter with reference to the inverter manual.

4. Connect the other end of the communication cable to the port 5 and 6 of meter. See the figure below for the connection.

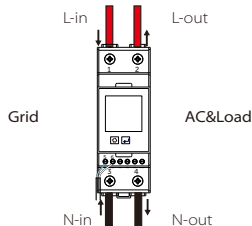
Please note that the same color communication cable is used for the same communication port identifier between the inverter and the meter.

PS: The color of the communication cable in the figure is for reference only. Please refer to the actual situation for the specific connection.



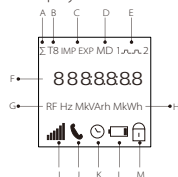
Step 2: Voltage wire connection

1. Insert the L wires to the ports 1/2 of the meter.
2. Insert the N wires to the ports 3/4 of the meter.



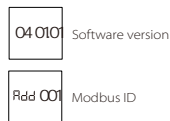
LCD description

① LCD Display

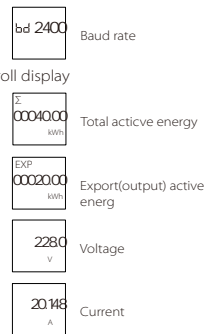


Object	Description
A	Total value
B	Tariff information
C	Import information Export information
D	Max.Demand for Power or Current
E	Pulse output 1 and Pulse output 2
F	7 digits used to display measured values
G	RF=power factor Hz=frequency
H	Measurement units
I	Bar display of Power
J	Communication indicator

② Initialization Display

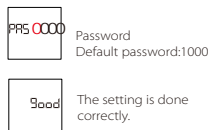


③ Scroll display



④ Set-up

To get into Set-up screen, the user should press the "Enter" button for 3 seconds.



Warranty Regulation

Terms and conditions

SolaX grants a warranty of 12 months as standard. Starting from the date of the purchase invoice marked. SolaX will only perform warranty service when the faulty unit is returned to SolaX together with a copy of invoice and warranty card which were issued by the dealer and manufacturer to the users. In addition, the type label of the unit must be fully legible. If these requirements are not fulfilled, SolaX reserves the right for all warranty terms and conditions.

Exclusion of liability

- Warranty claims are excluded for direct or indirect damage due to:
- 1: Use of unit in ways not intended, improper installation and installation that does not comply with standards, improper operation and unauthorized modification to the units or repair attempt.
 - 2: Without warranty card and serial number.
 - 3: Operating the units with defective protective equipment.
 - 4: Influence of foreign objects and force majeure.
 - 5: Inadequate ventilation.
 - 6: Violate relevant safety regulations.

To register your SolaX product, please mail this warranty card to:

ADD: Room 220, West Building A Sci. and Tech Park of Zhejiang University No.525, Xixi Road, Hangzhou Zhejiang Province, China 310007
Tel: +86 571 56260011 Fax: +86 571 56075753
Email: service@solaxpower.com
Web: <http://www.solaxpower.com/>

Online warranty registration is available at <http://www.solaxpower.com/en/warranty-registration/>

Warranty Registration Form

Name

Country

Phone Number

Zip Code

Email

Address

Product Serial Number

Date of Commissioning

Installation Company Name

Date of Delivery

Signature