



Single-Phase Prepaid Wifi Smart Electricity Meter

Complete User Manual



1 Brief Introduction

This is a single-phase wifi prepaid smart electricity meter. This meter communicates with the mobile applications via WiFi. There is also a built-in relay that can be activated to cut off electricity in events of overloading, prepaid balance runs out, or manual instruction by users via the app.

Via our mobile applications, users can remotely control the meter, i.e. remote recharge, remote reading, remote clear balance and so on

2 Parameters

Voltage:	130V-265V
Current:	5(60)A
Accuracy:	1.0S
Standard:	IEC62052-11 / IEC62053-21
Frequency:	50 Hz
Constant:	1000 imp/kWh
Display:	LCD 6+2
Power consumption:	<2W / <10VA @ Un
Load control:	Build-in 80A magnetic latching relay
Low balance indication:	Yellow LED
Pulse:	Red LED
Start current:	0.4%Ib
Working temperature range:	-20°C~70°C
humidity:	< 95%
communication:	WiFi

Error limit:

Load current	Power factor	Percentage error(%)	
		Class 1	Class 2
0.05 - 0.1 Ib	Cosφ=1	±1.5	±2.5

0.1 - 0.2 lb	Cosφ=0.5L	±1.5	±2.0
	Cosφ=0.8C	±1.5	
0.2 lb-lmax	Cosφ=1	±1.0	±2.0
	Cosφ=0.5L	±1.0	±2.0
	Cosφ=0.8C	±1.5	

3 Operation and Display

3.1. download APP

3.1.1 set meter to Wi-Fi configuration mode. Ensure the meter has an active power supply. Press the oval button for about 11 seconds, wait until LCD display number 10 or more, then loose button, meter LED will turn to yellow and fast flash.



3.1.2 turn on App, click the set Wi-Fi function and follow the instruction in the App manual. After the setting is successful, the LED flash will stop.

3.2. LED display

3.2.1 The LCD will display different screen on an automatic cycle, each with a 3 seconds display timer.

3.2.2 Balance Energy. This display shows the balance energy or balance credit. The picture below shows the balance of 80kWh.



3.2.3 Total Energy Usage. This display shows total power consumption. The data here cannot be cleared. The picture below shows the total usage of 80kWh.



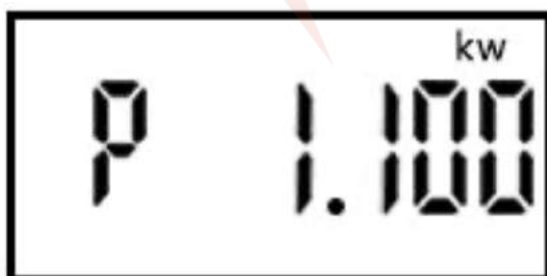
3.2.4 Voltage. This display shows the real-time voltage. For example below picture shows the real-time voltage is 220 Volt.



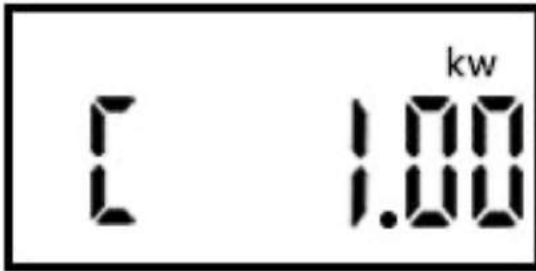
3.2.5 Current. This display shows the real-time current. For example below picture shows the real-time current is at 5 Ampere.



3.2.6 Power. This display shows the real-time power. For example below picture shows the real-time power is at 1.1 Watt.



3.2.7 Power factor. This display shows the real-time power factor, for example below picture shows the real-time factor is at 1.



3.2.8 Power limit. If the power is over the limit for more than 30seconds, the meter relay will trigger and the power will be automatically cut off.



3.2.9 5 Signal strength. Range of 0-99. A higher number means a better signal.



3.2.10 Meter network connection and registration status.

This display shows two numbers,

The number on the left is to indicate network connection:

0 means no communication yet,

2 means has access to the mobile application server.

1 means the meter has connected with the Wi-Fi router but the router has no active internet connection.

The number on the right is to indicate registration status:

0 means the meter is yet to register and is new

2 means the meter has been registered into the system.

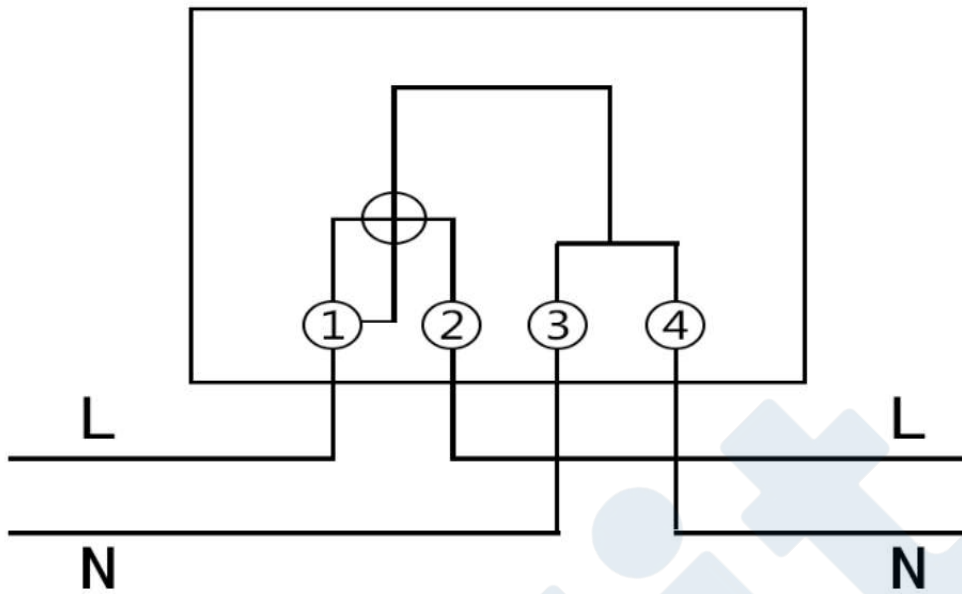
Normally the meter will show 22 like the picture below.



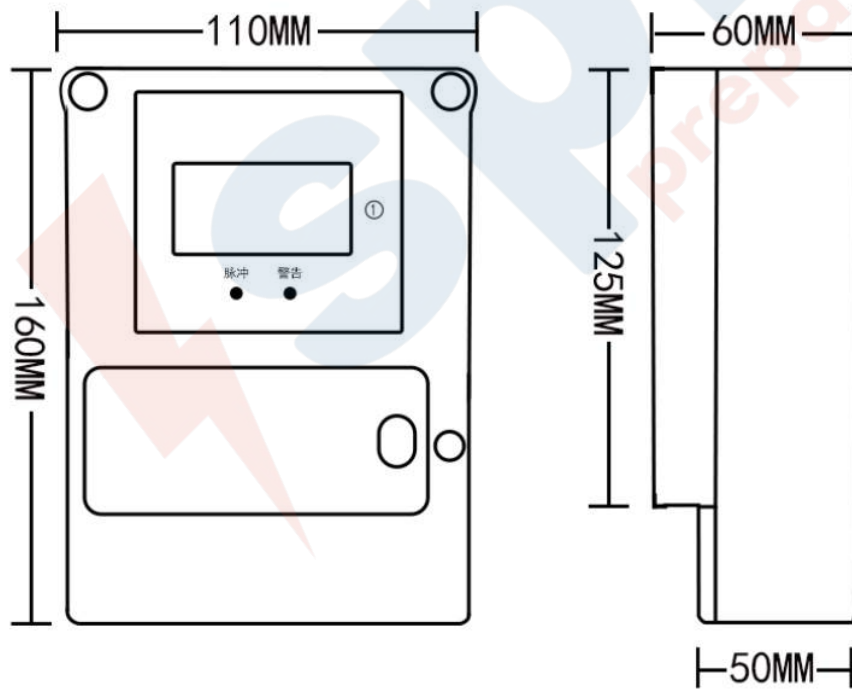
3.2.11 Unique meter ID. Start with 18, and contains 11 digits. This number can be found in the display as well as the bar code section. LCD can only display the last 8 digit number.



5 Connection Diagram



6 Meter dimension



7 Installation

7.1 Electrical energy meter installation requires an experienced electrician or professional personnel. Please contact us if you have trouble understanding the meter or need additional guidance. Please also ensure that the electrician has read all user's guides prior to installation.

If there are damages or dents on the meter, please contact the manufacturer or reseller. A damaged meter might cause harm.

The electric energy meter should follow the wiring diagram and be connected with preferably copper wiring.

7.2 Installation Instruction

Installation can be done near the distribution box, or anywhere preferred. All installation should be done after the distribution box for maximum safety and protection. Please see the picture below for sample installations.

Meter can be mounted using regular length screw i.e. hanging a picture. Installation is recommended to be on a brick wall or fire-proof material.



8 Safety Instructions

Information for your Own Safety

This manual does not contain all of the safety measures for the operation of this equipment (module, device) because special operating conditions, local code requirements or local regulations may necessitate further measures.

However, it does contain information that must be adhered to for your own personal safety and to avoid damage to the equipment.

General Warning

After removing the packaging, please make sure the meter is in good shape. If in doubt don't use the meter and contact technical staff.

Mounting of electric appliances must be carried out only by skilled electricians. Please observe generally applicable safety measures.

In case of failure and/or malfunctioning of the device, turn off it. For any repair please contact our technical staff. Failure to comply with the above may compromise the device safety.

Warranty

The manufacturer will repair or exchange the products as long as the seals are still intact. **The warranty period is 12 months.** Failure to follow the instructions/user manual may cause a void of warranty.