



QCM13 is the latest developed new generation prepaid single phase energy meter with IC card function. The meter is used to measure electrical energy accurately for commercial, industries and residential customers. This type is well used in multiple application scenarios, such as EV charging system, hotel system, etc. The **QCM13** has reliable performance and high stability in metering and measurement. And the good quality brings the long service life to the users.

■ Highlights

- STS standard protocol ensures an open and secure operating system.
- Prepayment is made via a numeric token logged in the IC card.
- One meter one card, ensure data of power consuming safety and reliable.
- Overdraft/Credit power usage.
- Overload detection, control and alarming.
- Support errors self-detection function.
- Automatic cut-off when the credit is zero.
- Both the card and system are encrypted by FUTURISE.

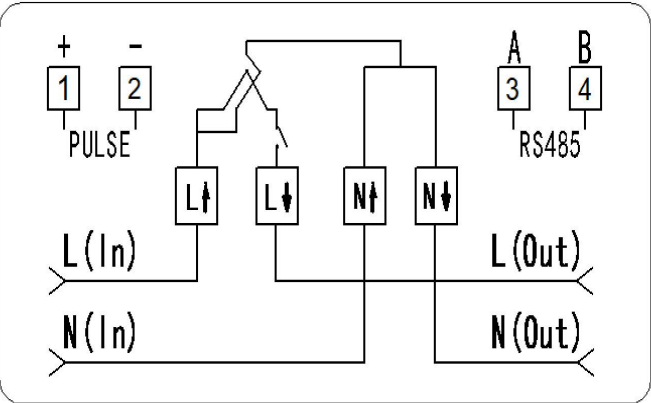
■ Main Functionalities

- 1.Bi-directional measurement of active energy.
- 2.Measure the instantaneous value, such as voltage, current, active power, power factor, frequency.
- 3.Display readable without main power (RWP)(optional).
- 4.Backlights to increase readability in low light conditions (optional).
- 5.LCD display with two options: cycle display (default) or key display item by item. Can set the cycle display interval. Can select the data item of display.
- 6.LEDs indicate the power supply state, energy impulse signal, load current flow direction and the data communication state separately.
- 7.RS485 data communication port. (optional).
- 8.Built-in magnetic holding relay supports load on-off function.
- 9.Event recording: IC card crack event, overdraft event.

■ Specifications

ITEM	DETAILS
Accuracy	Class 1
Voltage Reference voltage Operating voltage range	220V 80%-120%Un, 70%-130%Un
Current Basic current Maximum current Starting current	5A 60A 0.4%Ib
Frequency	50Hz or 60Hz
Temperature Operation range Limit range for storage and transport	-25℃ to +65℃ -35℃ to +75℃
Humidity	Up to 85%
Power consumption Power consumption in voltage circuit Power consumption in current circuit	≤2.0W, 10VA ≤4VA
Protection Protection degree	IP51
Display Type	LCD 6+1
Communication Interface RS485	IEC62053-21 IEC62056-21
Weight Weight Net weight	Approx. 0.29kg(extended terminal cover) Approx. 0.33kg(short terminal cover)
Dimension Din-rail Meter Model	88mm x76mm x76mm 4 Pole

■ Connection Diagram



■ Dimensions

