

Multifunctional Single-phase Prepaid Meter 1PMK



The 1PMK single-phase prepaid meter is a multifunctional tamper-proof electronic energy meter with STS Keypad, adopts advanced measuring chip and high reliable CPU. It manufactured with advanced SMT Process and supports a comprehensive solution benefiting both consumers and power utilities. The features contain large LCD display, backlight, optical communication, power quality detection and event record.

Designed in accordance with IEC 62053-21, IEC62052-11, IEC 62055-41, IEC62055-31, and IEC 62055-51

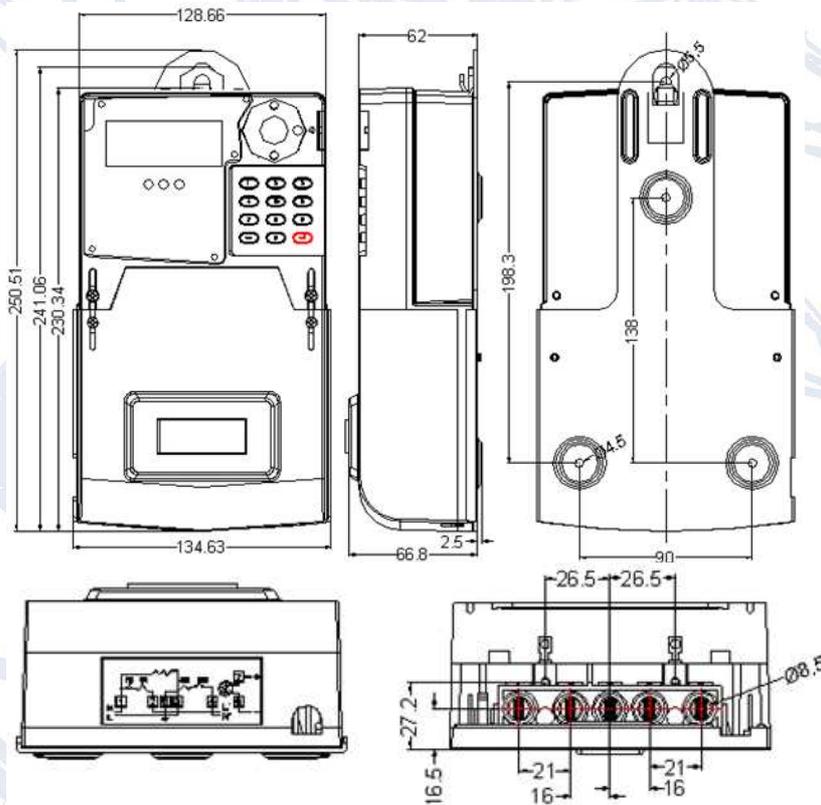
Features:

- Bidirectional active energy measurement, reverse energy accumulated to positive energy.
- Measuring the total accumulative and remaining energy.
- The meter will automatically switch off when the remaining power was used out.
- Using the STS encryption techniques and protocol to generate 20 digits cryptograph which can be used to charge energy, set key, clear tampering sign and so on.
- Multi-level remaining power, the meter will alarm when the remaining power is low.
- Credit overflow limit.
- Alarm: When remaining credit crosses the minimum credit, the warning LED glitter , LCD also indicates the warning symbol to remind user to purchase credit. Buzzer buzzes should customize.
- Open upper cover and terminal cover detection.
- Switch off when the power is over the set value.
- LED pulse light output and pulse output energy.
- Design the meter according to IEC 62055-41, IEC62055-31, and IEC 62055-51, IEC 62052-11, IEC 62053-21.
- Charge the meter through SMS, internet and so on.
- High reliability and accuracy, easy to use.

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Technical:

Type:	Single Phase, one phase two wire,
Keypad Prepayment Meter	
Accuracy:	Class 1 i.a.w IEC62053-21
Reference Voltage:	240V
Reference Frequency:	50Hz
Current IB (I _{max})	10 (100A)
Starting Current (I _b %):	<=0.004
Meter Constant:	1600 imp/kWh can be customized
Internal Tariff Source:	4 tariffs
Output:	LED pulse output
Communication Interface:	Optical port, Infrared, RS485/RS232
Power Consumption:	
Voltage Circuit:	<=5VA (1.5W)
Current Circuit:	<=0.5VA
Environment:	
Battery Life Time:	>=10 years
Internal Real Time Clock Accuracy:	<= 0.5 sec/day @ 23°C
Operating Temperature:	-20°C to 75°C
Storage Temperature:	-40°C to 85°C
Relative Humidity:	85% to 100%
IP Rating:	IP 54
Weight:	0.8KG
Dimensions:	250.51mm×128.66mm×62mm



Version 1.0

Technical Specifications subject to change without prior notice

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