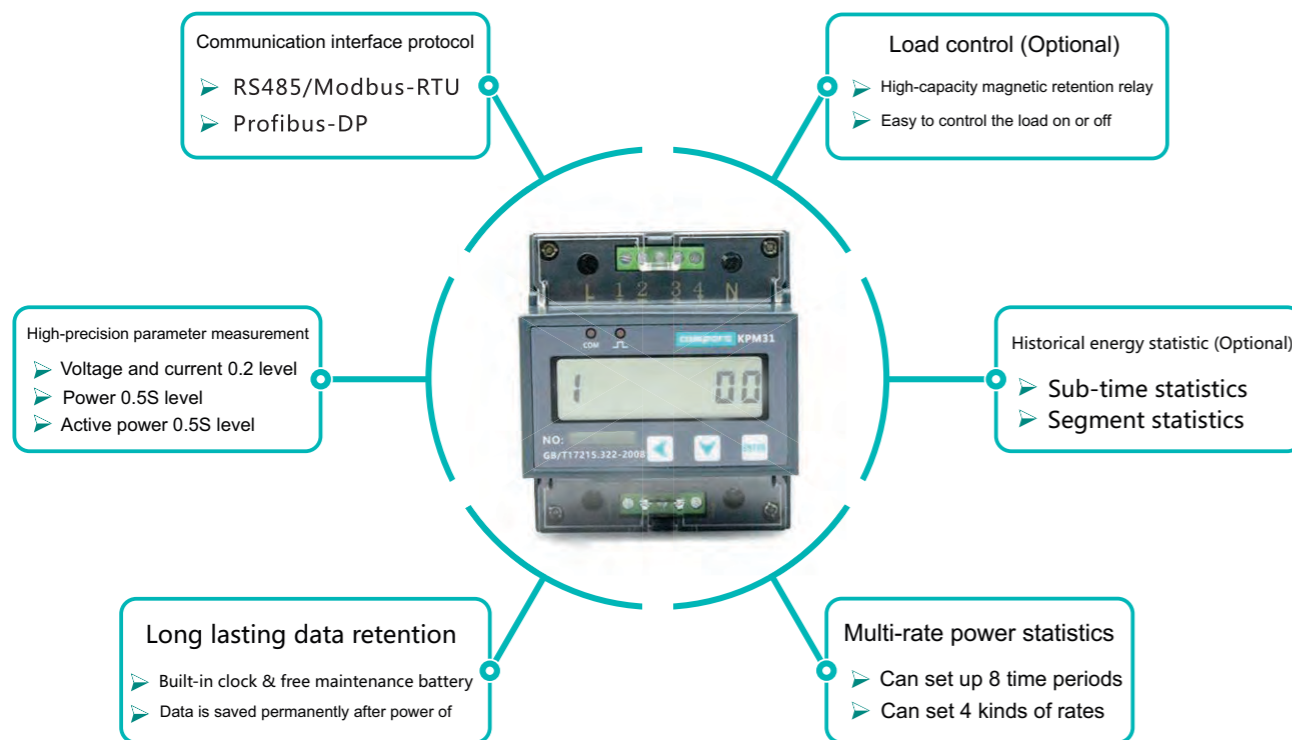


KPM31 Single-phase guideway type smart energy meter



KPM31 single-phase rail smart meter in full compliance with the national standard GB / T7215-2008 and the international standard IEC62053: 2003 on the 0.5S-class energy meter of the relevant technical requirements, it use microelectronic technology and imported large-scale integrated circuits, it also application digital sampling Processing technology and SMT technology and other advanced technology , it can be directly and accurately measure the rated frequency of 50 / 60Hz AC active power, it use LCD7 + 1 bit LCD display, with high reliability, small size, easy installation and so on.

Product Features

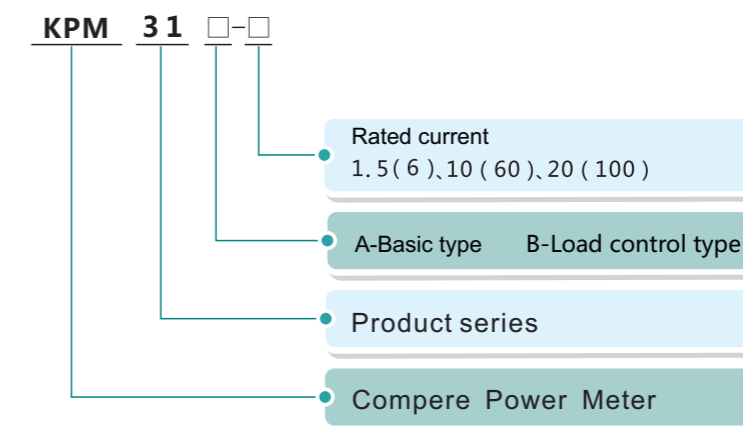


Function features



- Measurement of three-phase voltage, current, active power, reactive power, apparent power, power factor, frequency, active energy, reactive energy
- Multi-rate energy statistics, a day can be set up to eight time periods, four kinds of rates
- Historical power statistics function
- Rated current optional
- 1 road passive optical coupler collector active pulse output
- 1 -way RS485 communication interface, Modbus communication
- 7 +1 bit LCD display a variety of power parameters and information
- Built-in clock and maintenance-free battery, battery capacity real-time monitoring, data is permanently saved after power off
- Application of large-capacity magnetic retention relay, Load on-off control.

Products list



- ◆ Example: KPM 31-1.5(6):Rated AC220V /1.5A(Max 6A), basic type multi-rate energy statistics, historical energy statistics single-phase guideway type smart meter.
- ◆ Ordering instructions: Before ordering please confirm rail meter access method, through The CT / 5A transformer indirect access, choosing use KPM31-1.5 (6).

Application occasion

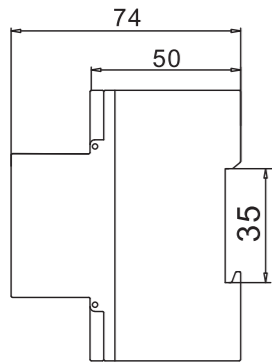
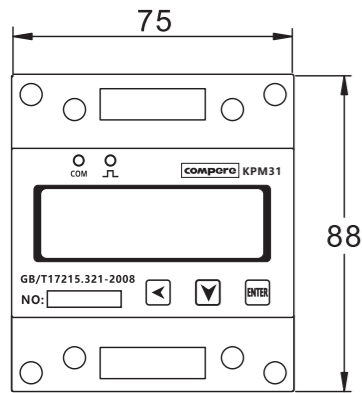
Energy and energy efficiency management system

Internal energy consumption statistical analysis and charging statistics basis

Energy metering, automatic meter reading system

Intelligent distribution management system

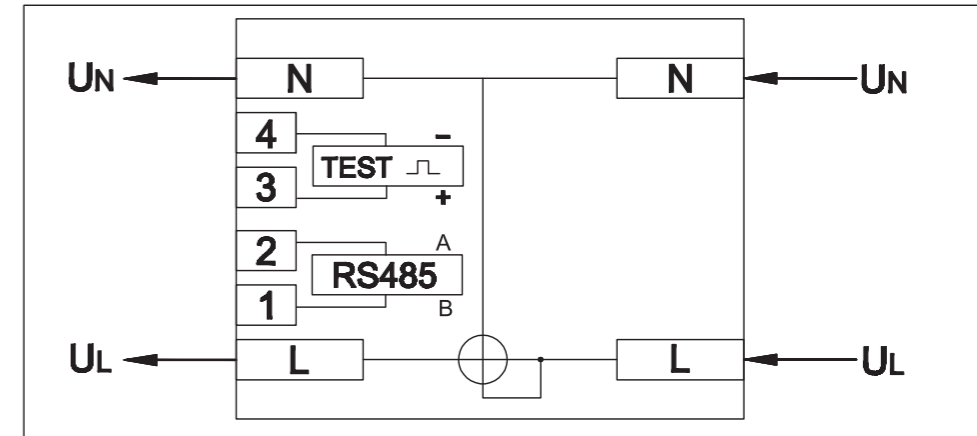
Product size **Technical Parameters**



Input voltage	Rated voltage	AC 110V/220V
	Overall power consumption	<5VA
	Frequency range	45~65Hz
Input current	Rated current	1.5(6)A,10(60)A,20(100)A
	Frequency range	45~65Hz
Measurement accuracy	Voltage	±0.2%(0.01V)
	Current	±0.2%(0.01A)
	Active power	±0.5%(0.1W)
	Reactive power	±2.0%(0.1var)
	Active energy	±0.5%(0.1kWh)
	Reactive energy	±2.0%(0.1kvarh)
	Power factor	±0.5%(0.001)
	Frequency	±0.02Hz(0.01Hz)
	Clock	Clock accuracy
Communication	Communication interface	RS485,Photoelectric isolation interface
	Communication protocol	Modbus-RTU,1200~19200bps
Electrical insulation	Power frequency withstand voltage	AC2kV/min~1mA Input-output-power source (GB/T 13729)
	Insulation resistance	>50MΩ (GB/T 13729)
	Impact voltage	5kV (Peak),1.2/50us (GB/T 13729)
Working environment	Operating temperature	-25°C ~ +70°C
	Relative humidity	5%~95% No condensation
	Storage temperature	-30°C ~ +75°C
	Altitude	No more than 4000m
Electromagnetic Compatibility (EMC)	Electrical fast transient/ burst immunity test	IEC61000-4-4,Level4
	Surge immunity test	IEC61000-4-5,Level4
	Electrostatic discharge immunity	IEC61000-4-3,Level4
	Power frequency magnetic field immunity	IEC61000-4-8,Level4

Typical wiring

KPM31A Low voltage single phase direct access tipycal wiring diagram.



KPM31B Low voltage single phase direct access tipycal wiring diagram.

