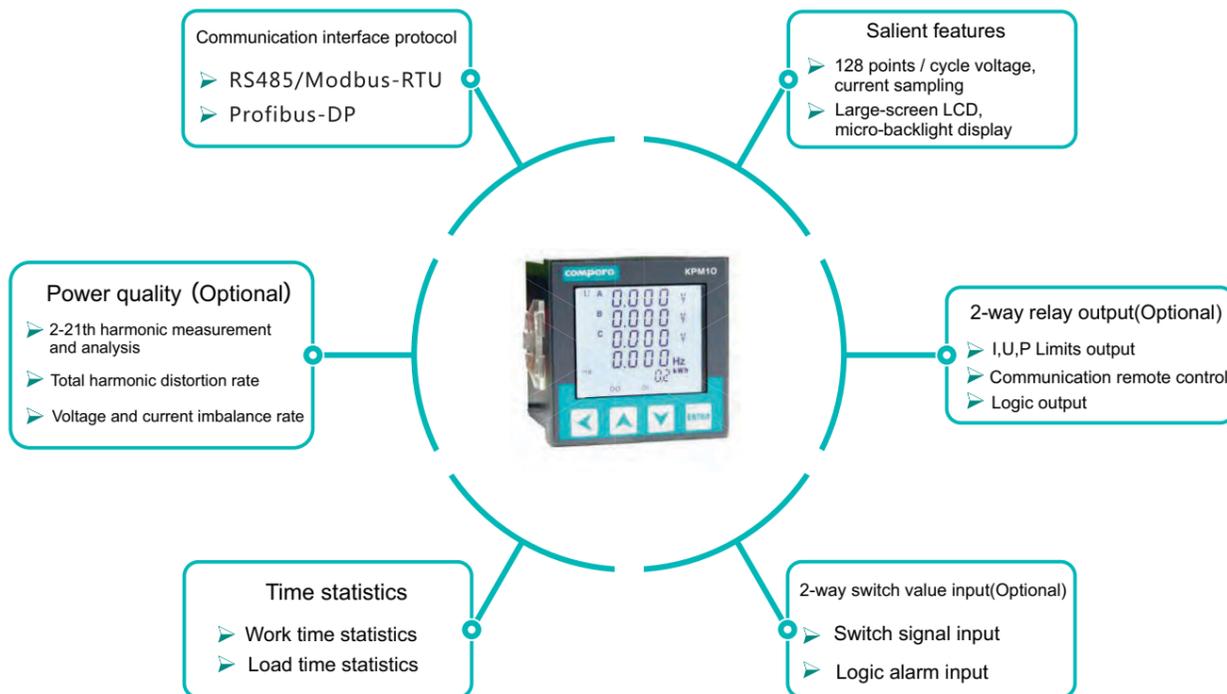


KPM10Three-phase multifunction power meter



KPM10 three-phase multi-function power meter was designed that using advanced 32-bit ARM processor and digital signal processing technology comprehensive set of three-phase electrical parameter measurement / display, power accumulation, fault alarm, harmonic measurement, digital inputs, relays Output and network communications in one. Standard 72 panel, large screen LCD screen, standard 1-way RS485 communication interface. With high precision, strong isolation, stable performance, anti-interference ability etc.

Product Features



Function features



- Measuring three-phase AC voltage, current, active / reactive power, active / reactive energy, power factor and other 30 kinds of basic parameters.
- 0.5Slevel two-way four-quadrant power statistics
- Working hours, load time statistics
- Support up to 21 harmonic distortion rate calculation, total harmonic distortion rate calculation, voltage and current imbalance rate, the current K-factor calculation
- Standard 1 –way RS485 communication interface, Modbus protocol
- Can be extended 2-way passive switch value input
- Can be extended 2-way relay output
- 128 points / cycle voltage, current sampling, high measurement accuracy
- LCD large-screen, micro-backlight display, in the light and wide viewing angle to obtain good visual effects

Products list

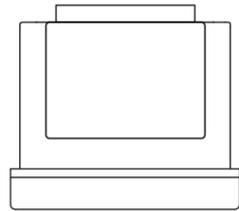
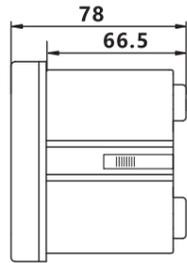
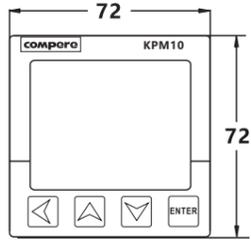
KPM 10 -□

- Extention Function**
R-2-wire relay output K-2-wire switch input
- Functional module**
S-Current, Voltage, Power Factor, Power, Frequency, Time Statistics
E-Current, Voltage, Power Factor, Power, Energy, Frequency, Time Statistics
Z-Measure the real effective value of all-paramenter Multi-rate power statistics, 2-21th harmonic measurement
- Product series**
- Compere Power Meter**

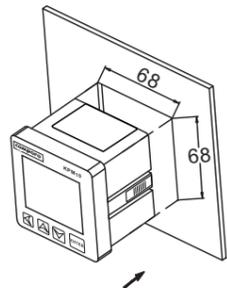
Application occasion

- 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



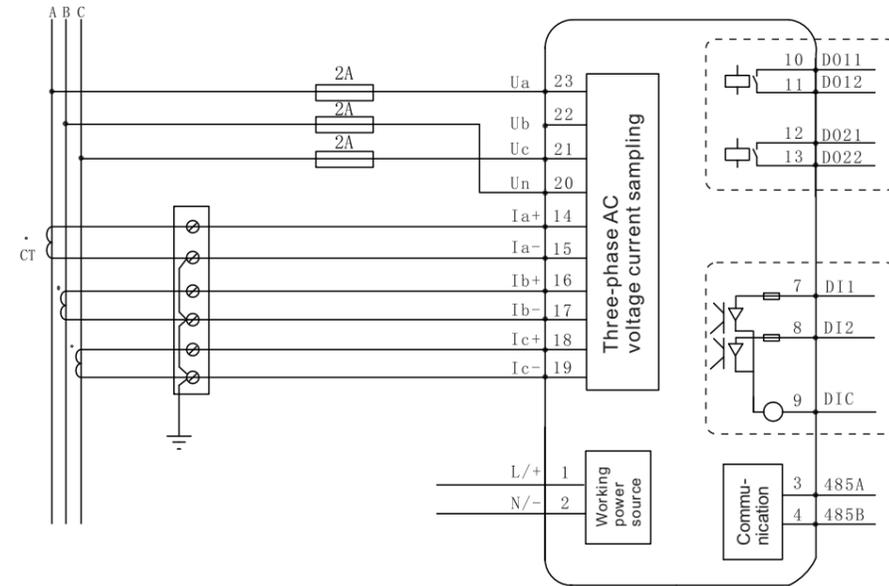
Installation instructions



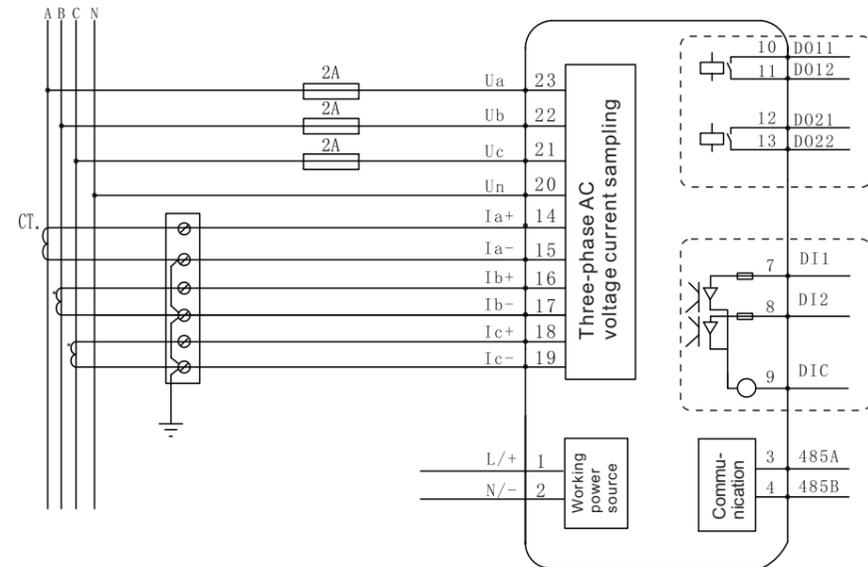
Working power source	Operating Voltage	AC 85-265V/DC 80-300V
	Rated power	<3VA
Input voltage	Rated voltage	57.7/100V,220/380V,380/660V(needs customization)
	Sill value	5V
	Overtoltage capability	1.2 times rated voltage allowed, continuous work; 2 times the rated voltage allowed 1 second
	Power consumption	<0.5VA(per phase)
	Measurement range	5~260VAC
Input current	Frequency range	45~65Hz
	Rated current	Default 5A, input range 1-6A; optional 1A, input range 1-1.2A
	Sill value	5A Configuration,5mA;1A Configuration,0.8mA
	Overload capacity	1.2 times rated current allowed, continuous work; 20 times the rated current allowed 1 second
	power consumption	<0.75VA/phase(Rated current 5A);<0.25VA/phase(Rated current 1A)
Input/ Output	Frequency range	45~65Hz
	Switch value input	2-way passive main line contact DI input, internal supply DC24V power source
Power quality monitor	Relay output	2-way DO output,Contact capacity 250VAC/5A,30VDC/5A
	Harmonic measurement	Voltage/current2~21th harmonic distortion rate,total harmonic distortion rate.
	Harmonic distortion rate	Phase voltage, line voltage
Measurement accuracy	Imbalance rate	Voltage, current
	Voltage	±0.2%(0.01V)
	Current	±0.2%(0.01A)
	Active power	±0.5%(0.01W)
	Reactive power	±2.0%(0.01var)
	Active energy	±0.5%(0.1kwh)
	Reactive energy	±2.0%(0.1kvarh)
	Power factor	±0.5%(0.001)
	Frequency	±0.02Hz(0.01HZ)
	Temperature	±1°C(1°C)
Comm-unication	Communication interface	RS485,Photoelectric isolation interface
	Communication protocol	Modbus-RTU, 1200-38400BPS
Electrical insulation	Power frequency withstand voltage	AC2kV/min~1mA input-output-source (GB/T13729)
	Insulation resistance	>50MΩ (GB/T13729)
	Impact voltage	5kV (Peak),1.2/50us (GB/T13729)
Working environment	Operating temperature	-25°C ~ +70°C
	Relative humidity	5% ~ 95% No condensation
	Storage temperature	-30°C ~ +75°C
Electro-magnetic Compatibility (EMC)	Altitude	Not more than 4000m
	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

KPM10RK Low-voltage three-phase three-wire typical wiring diagram



KPM10RK Low-voltage three-phase three-wire typical wiring diagram



Explanation:

- 1.The wiring diagram is suitable for low voltage three-phase three-wire system, low voltage three-phase four-wire system
- 2.The function of dotted lines is optional
- 3.The final interpretation belongs to Compere