

compere[®]

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Product Sample
For
 Power

Distribution interconnection Green energy efficiency

ABOUT US

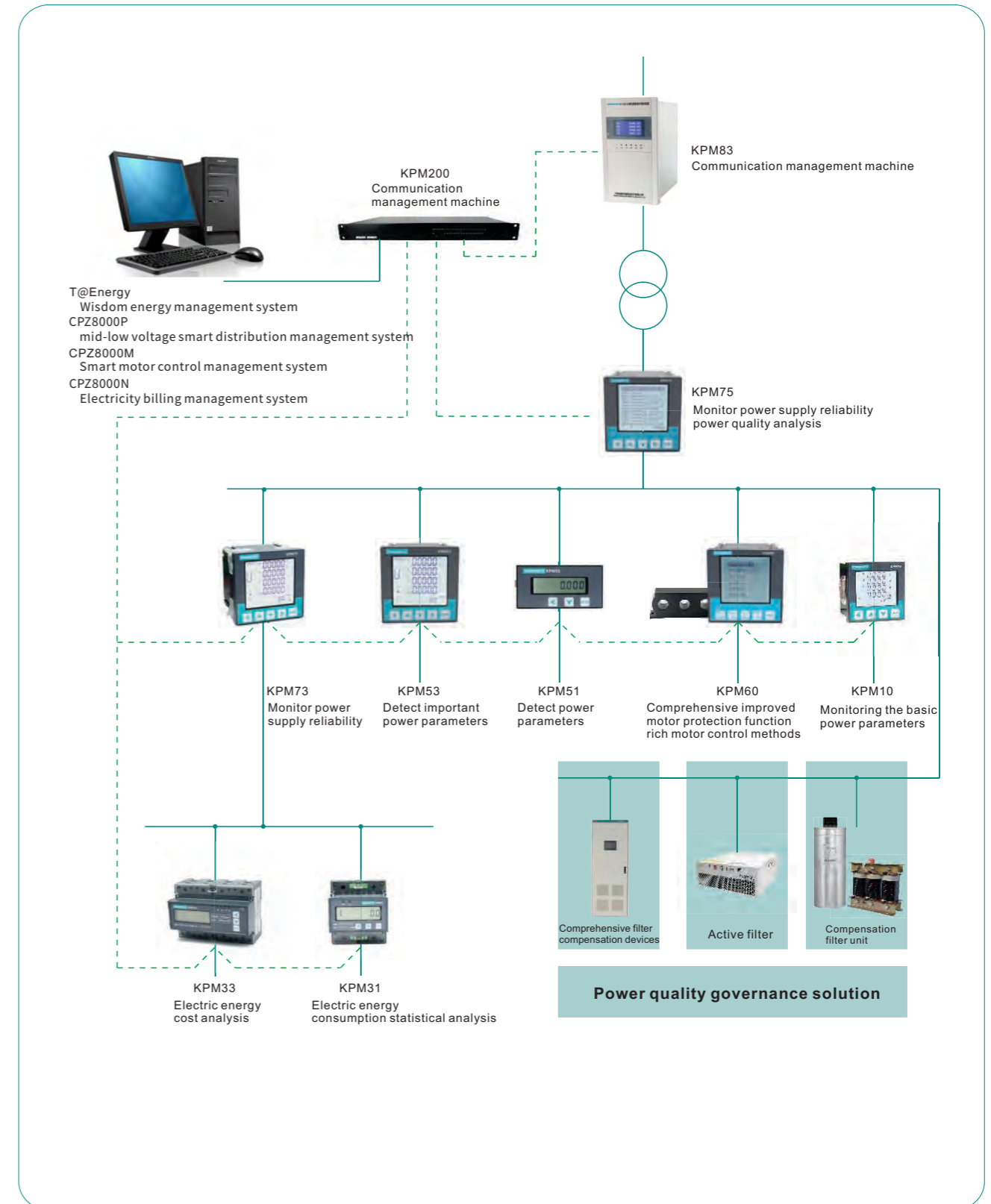
Distribution interconnection Green energy efficiency

Compere makes the "customer-centric" as its service philosophy, "distribution interconnection, green energy efficiency" as its mission, adhere to the "integrity, focus, efficiency, innovation and win-win" as the core values, to serves every customer. With advanced management concepts and product technology to help customers grow, making every city, every building, every industrial and mining enterprises benefit from Compere's smart electrical products.

Henan compere smart technology Co., Ltd. is a high-tech enterprises that commitments to energy management systems, intelligent electrical products and power quality control program development, production and sales . It is one of management & services institution of national power demand side, Compere has own professional embedded Product development team, excellent mobile Internet software development team and marketing services network.



Power quality monitoring and management – overall solution



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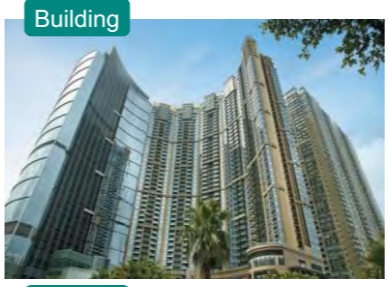
45 KPM 37
Three Phase Rail
Smart Power Meter



Products passed the ISO9001 quality system certification, China CCC mandatory product certification depends on strong technical strength, advanced intelligent electrical components production equipments, advanced process technology equipments and advanced testing equipment.



The company insisted on the independent research and development, at the same time it actively to establish long-term strategic cooperative relations with some world famous university such as Xi'an Jiaotong University, Zhengzhou University and many other domestic, they obtained a number of scientific technological achievements, a number of software copyrights and product patents. High quality, honesty, great service had led the company to become the leader of the electrical industry.



- | | |
|------------------------------------------------|----------------------------------------------------------------------------------|
| Shenglong Group | Greenland Group |
| Dashang Group | Xi'an Maike commercial and financial center |
| Xi'an Xixian new area | Henan University Science Park |
| Jinyuan Bai Rong World Trade Complex | Henan publishing industry base cultural and commercial complex |
| Baolong Real Estate Holdings Limited | Haier real estate |
| China aluminum industry Co.,Ltd | Henan Yuguang Gold and Lead Group Co., Ltd. |
| Inner Mongolia Ruifeng Lead Smelting Co., Ltd. | Beijing Mining and Metallurgical Research Institute Xuzhou base |
| Moscow Alexander Mining Machine Company | Shanghai General Motors Co., Ltd |
| Xingtai Iron and Steel Co., Ltd. | Zhengzhou Coal Mining Machinery Group Co., Ltd. |
| Angang Group | China Railway Engineering Equipment Group Co., Ltd. |
| Kaifeng Air Separation Group Co., Ltd. | Chengde Iron and Steel Group |
| Shanxi Zhangzhou Electric Power Co., Ltd. | Zhengzhou Xinli Power Co., Ltd. |
| GCL Group Holdings Limited | Zhaoyuan City thermal power plant |
| Xuzhou Datun Coal and Electricity Group | Beijing Power Supply Company |
| Henan Li move Power Co., Ltd. | Jiangsu Dahai New power. |
| Leling City, Leling Power Co., Ltd. | Shanxi Ruiheng Chemical industry |
| China Pingmei Shenma Group | Sinopec Luoyang company |
| Puyang Dahua Group | Inner Mongolia Taifaxiang Coking Co., Ltd. |
| Liby Group | Henan Gas Group Co., Ltd. |
| Tajikistan Tower aluminum sulfate plant | Multiple fluorine containing fluorine meticulous chemicals pilot production line |
| Henan Ancaigaoke Co., Ltd. | Changqing Oilfield |
| Yishui County Central Hospital | Lingrui pharmaceutical oral drug production base |
| Hualan Bioengineering Co., Ltd. | People's Liberation Army Academy of Military Medical Sciences |
| Zhengzhou City tenth People's Hospital | Henan Kangda Pharmaceutical Co., Ltd. |
| Henan Province Psychiatric Hospital | Beijing Daheng times Health Pharmaceutical Co., Ltd. times |
| Liaocheng City third people's Hospital | Lizhu Pharmaceutical Group |
| Tianjin West Bus Station | Beijing Shunyi Wastewater Treatment Plant |
| Henan Agricultural University | Sand Group Co., Ltd. |
| Shandong high-speed group | Capital International Airport Power Distribution Project |
| Xuzhou metrology test center | Xi'an Water Group |
| Henan Meteorological Bureau | Beijing Fangshan Sports Center |

T@Energy Wisdom energy management system



T@Energy Wisdom energy management system uses advanced intelligent integration technology, based on the B / S structure of energy management, The platform collects energy consumption and operation informations of energy consumption monitoring points (power distribution, lighting, air conditioning, elevators, water supply and drainage, hot water units and key equipment), then forming a classification of energy consumption, sub-item and sub-area statistics, It is important to help customers to make more efficient use of energy, thereby achieved the goal of "energy-saving management", "Green energy efficiency".

System function



Energy consumption data collection



Energy consumption trend analysis



Energy saving footprint



Report form service



B/S Access interface



Group energy management model



Power Quality Management



Energy consumption sub option analysis



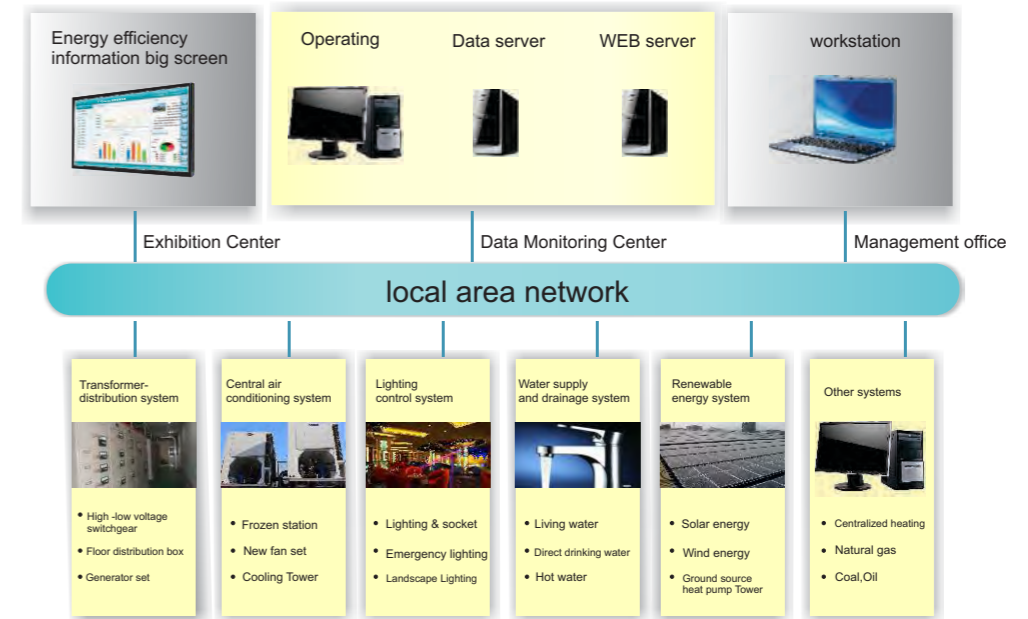
Energy consumption with time-sharing statistics



Energy consumption multi-dimensional analysis

System structure

T@Energy Wisdom energy management system is constructed based on B / S, including energy efficiency management layer, network communication layer, on site devices layer.



◆ Energy efficiency management layer

Completing the data collection, calibration, analysis, processing, output, system maintenance, authorized use, authority grading control; and could send the important data for on site, alarm information, fault information to the enterprise decision-making.

◆ Network communication layer

The area's electrical power collection module is connected to the relative communication manager machine by transmission methods on site, such as RS485, Ethernet, GPRS, Zigbee, WIFI and so on; every communication manager through the user's local area network to connect to the central server.

◆ on site devices layer

Data collection layer is responsible for the collection and upload of the parameters of electricity, water, gas, heating and cooling and environment. It is consists of multi-function power meters, multi-function energy meter, smart water meter, smart gas meter, temperature and humidity sensors and other collection devices.

T@Power Smart distribution management system



In order to achieve reliable, efficient and low-cost operation of power transmission and distribution systems, the power supply companies and users need a more effective power monitoring solution to respond to challenges that caused by the change of the rapid development of power supply system in our country, the rapid growth of electricity load, the increasingly serious power quality problems caused by the continuous emergence of various non-linear loads and the strict regulations of the government on energy saving and emission reduction.

T@Power Smart distribution management system was developed by our company to closely grasp the needs of power system users and follow the standards of power system, it has many features, such as professional, high degree of automation, easy to use, high performance, high reliability and so on. It could be reasonable deployment load and optimize the operation through telemetry and remote control, it also can check the peak and bottom of the electricity records, thus providing the necessary conditions for energy management.

T@Power Smart distribution management system is playing an important role in the field of commercial buildings and public buildings, municipal engineering, steel, nonferrous metals, coal, petroleum, petrochemical and communications.

System function



Data monitoring and remote control



Video Surveillance



Power Quality Management



Devices check, repair and maintain management



Time and alarm handling



Energy efficiency management



Operational optimization management



Electric energy consumption statistics and analysis



Historical data query and management



Report form management and printing



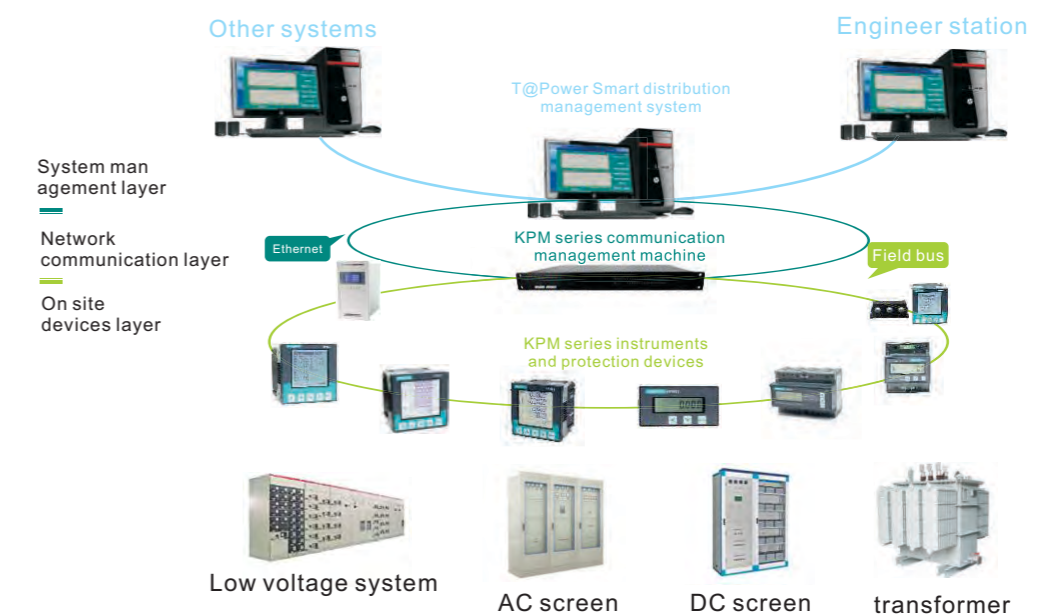
Accident Record and Analysis Management



User Management

System structure

System management layer T@Power Smart distribution management system adopts hierarchical and distributed structure design, The whole system could be divided into three layers accord to the interval unit and modular design: system management layer, network communication layer and on site devices layer.



◆ system management layer

Taking T@Power Smart distribution management system software as the core, it can display and process the data and measurement control signals from devices layer. The system operation page is simple and intuitive, which realizes the connection between user and monitoring equipment.

System management is constitute of T@Power Smart distribution management system software, monitor host, printer UPS uninterruptible power supply and so on.

- Single-host system: One client/ server application
- Multi-host system: One server / multiple client applications

◆ Network communication layer

The network communication layer mainly refers to the communication equipment and communication links between the site equipment layer and the system management host.

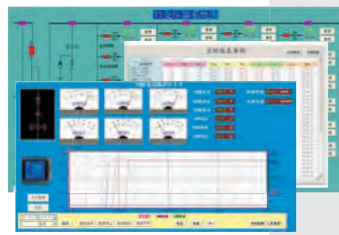
The network communication layer is constitute of the shielded twisted pair, fiber optic cable, fiber optic transceivers, industrial network switches, communications management machines and power modules and other devices.

◆ On site devices layer

On site monitoring device that is also called RTU, mainly be used for on-site monitoring signal data measurement, display, control and communications functions.

Devices layer is constitute of various smart power meters that needed by mid-low distribution Monitoring Center microcomputer protection and third part smart devices.

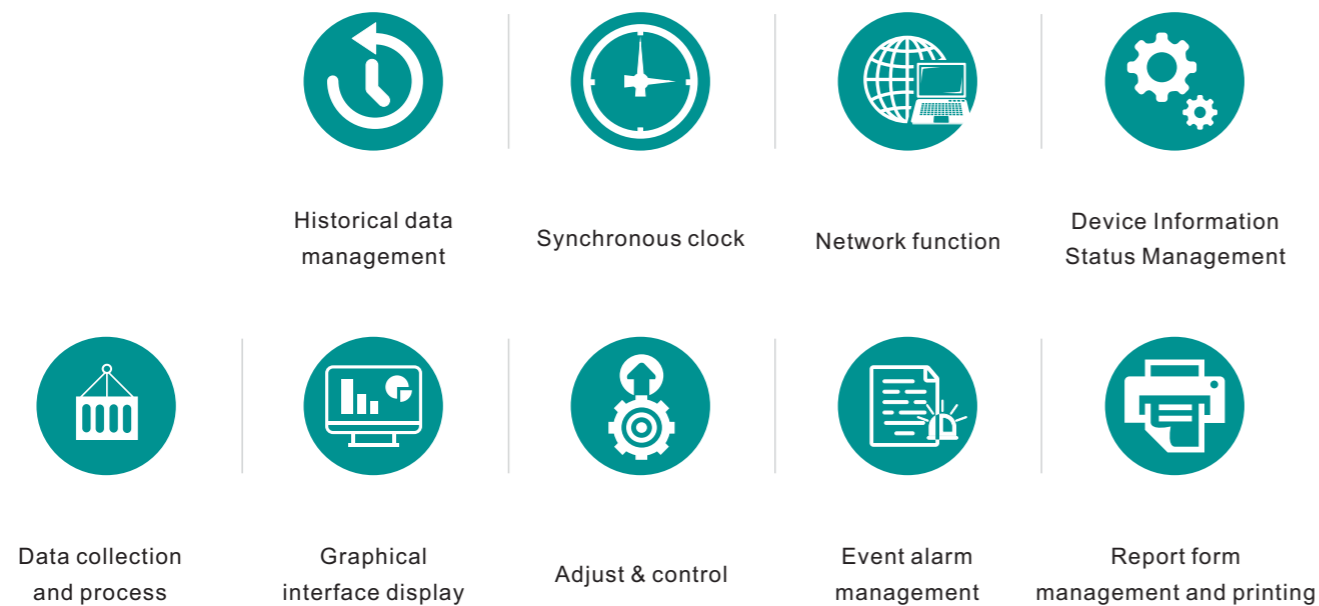
T@Motor Smart motor control management system



In all fields of the national economy, such as electric power, petroleum, chemical industry, metallurgy, papermaking, water treatment, pharmaceuticals, etc., electric motors have been more and more widely used. low-voltage motors protection that traditional motor control loop which be constituted of thermal relays, fuses, or electromagnetic current relays can no longer meet the needs of the increasingly advanced level of automation because of the single protection function, large amount of overhaul and the low degree of information technology In order for the motor to operate normally and reliably, a single motor and multiple motors need to be uniformly controlled, protected and managed.

T@Motor Smart motor control management system based on low-voltage motor controller, with a variety of low-voltage control bus interface communication management machine, it could provide low-voltage motor protection at the same time Microcomputer can receive monitoring from the DSC, and sending low-voltage motors Data transmission to the ESC (Electrical System) monitoring host, providing a total solution for the protection, control and management of low-voltage motors.

System function



System structure

T@Motor Smart motor control management system adopts hierarchical and distributed structure design, The whole system could be divided into three layers accord to the interval unit and modular design: system management layer, network communication layer and on site devices layer.

◆ System management layer

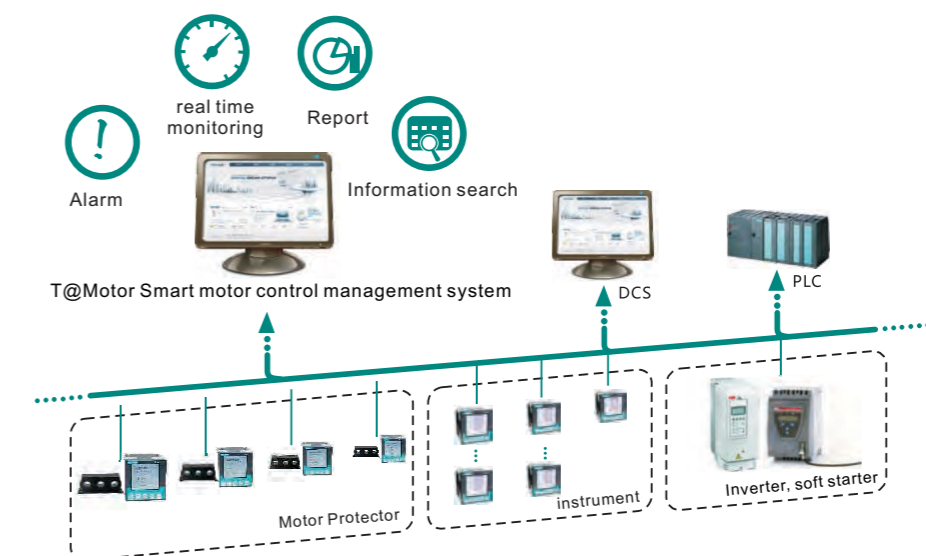
Taking T@Motor Smart motor control management system software as the core, it can display and process the data and measurement control signals from devices layer. The system operation page is simple and intuitive, which realizes the connection between user and monitoring equipment. System management layer is constitute of CPZ800M smart motor control management system software, monitor host, printer UPS uninterruptible power supply and so on.

◆ Network communication layer

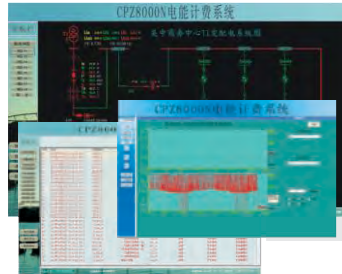
The network communication layer mainly refers to the communication equipment and communication links between the site equipment layer and the system management host. The network communication layer is constitute of the shielded twisted pair, fiber optic cable, fiber optic transceivers, industrial network switches, communications management machines and power modules and other devices.

◆ On site devices layer

Site monitoring device that is also called RTU, mainly be used for on-site monitoring signal data measurement, display, control and communications functions. Devices layer is constitute of various smart motor protection, instrumentation, inverter, soft starter and computer protection that low voltage power distribution monitoring motor control center needs and other third-party smart devices.



CPZ8000N Electricity billing management system

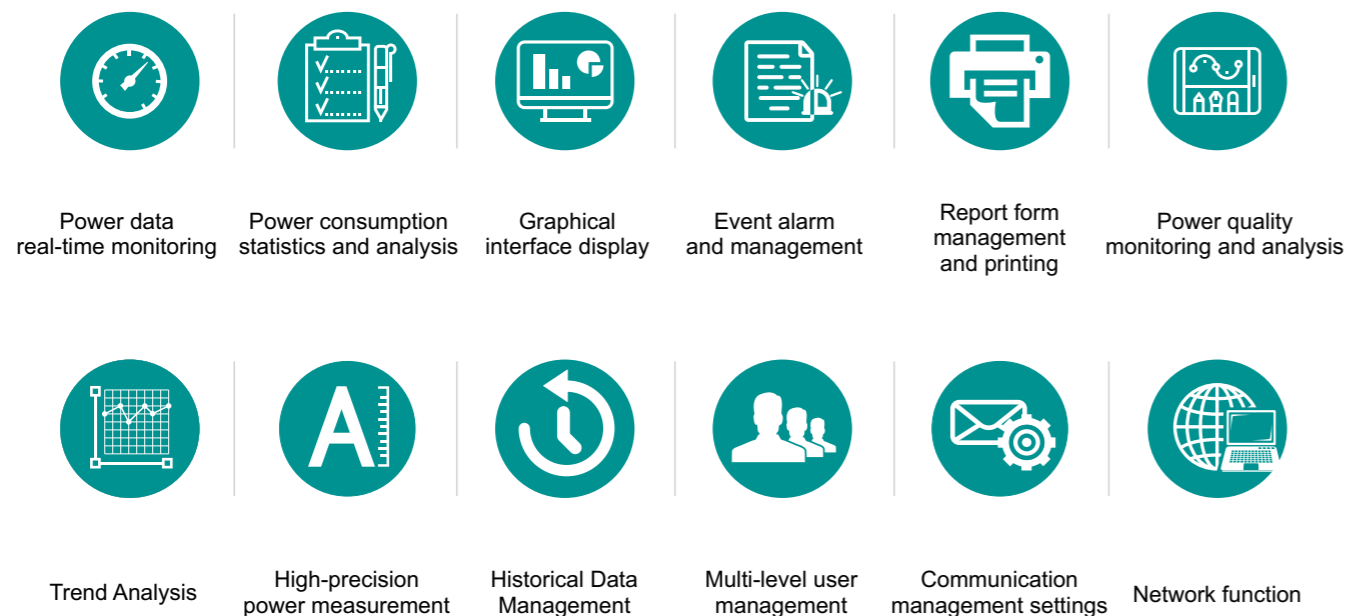


With the rapid economic development, energy shortage and environmental deterioration have drawn close attention from all over the world. Energy is an important foundation for the development of the national economy. In order to respond to the national call and follow the path of sustainable development, energy conservation and consumption reduction are the top priorities. Among them, the electric energy consumption is relatively large in all energy, so the unified management of power is particularly important. Only accurate and reliable measurement of electrical energy can we save energy in the real sense.

CPZ8000N electric energy billing management system is developed by our company for medium and small power distribution system. It has friendly operation interface, simple and practical function, easy to grasp and low investment cost. We can analyze historical load curves, power consumption, and system margins to improve system or equipment utilization efficiency according to the data that collected by the electric energy billing management system software.

As a low-cost management tool, CPZ8000N Electric energy billing management system can be widely used in medium and small power distribution monitoring, power consumption management analysis and other fields. It is a best solution to help users monitor the energy consumption and reduce the cost of electric energy, at the same time, it is also the key steps for users to implement a comprehensive energy-saving and strategic plan.

System function



System structure

CPZ8000N Electric energy billing management system adopts hierarchical and distributed structure design, The whole system could be divided into three layers accord to the interval unit and modular design: system management layer, network communication layer and on site devices layer.

◆ System management layer

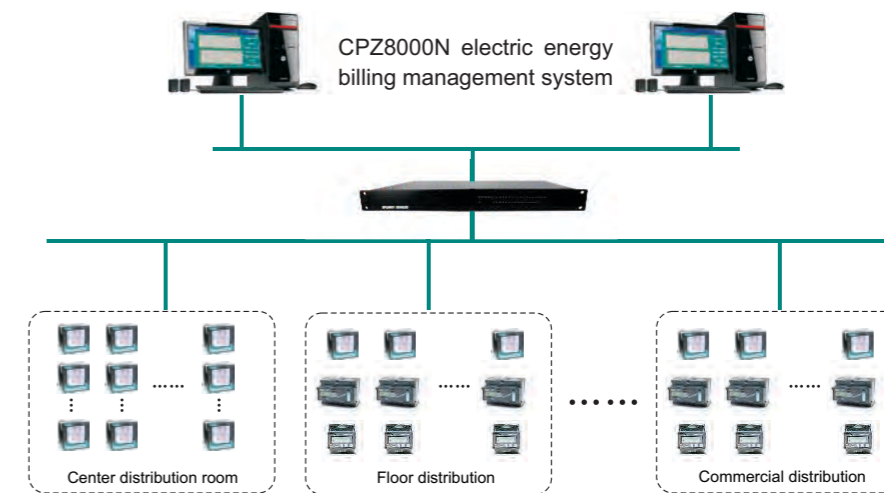
Taking CPZ8000N electric energy billing management system software as the core, it can display and process the data and measurement control signals from devices layer. The system operation page is simple and intuitive, which realizes the connection between user and monitoring equipment. System management layer is constitute of CPZ8000N Electric energy billing management system software, monitor host, printer UPS uninterruptible power supply and so on.

◆ Network communication layer

The network communication layer mainly refers to the communication equipment and communication links between the site equipment layer and the system management host. The network communication layer is constitute of the shielded twisted pair, fiber optic cable, fiber optic transceivers, industrial network switches, communications management machines and power modules and other devices.

◆ On site devices layer

On site monitoring device layer refers to the On-site installation of smart meters and devices, they are be used for on-site monitoring signal data measurement, display, control and communications functions. The on site device layer consists of all kinds of smart meters and multi-function meters required by the power billing management center, and the third-party smart devices

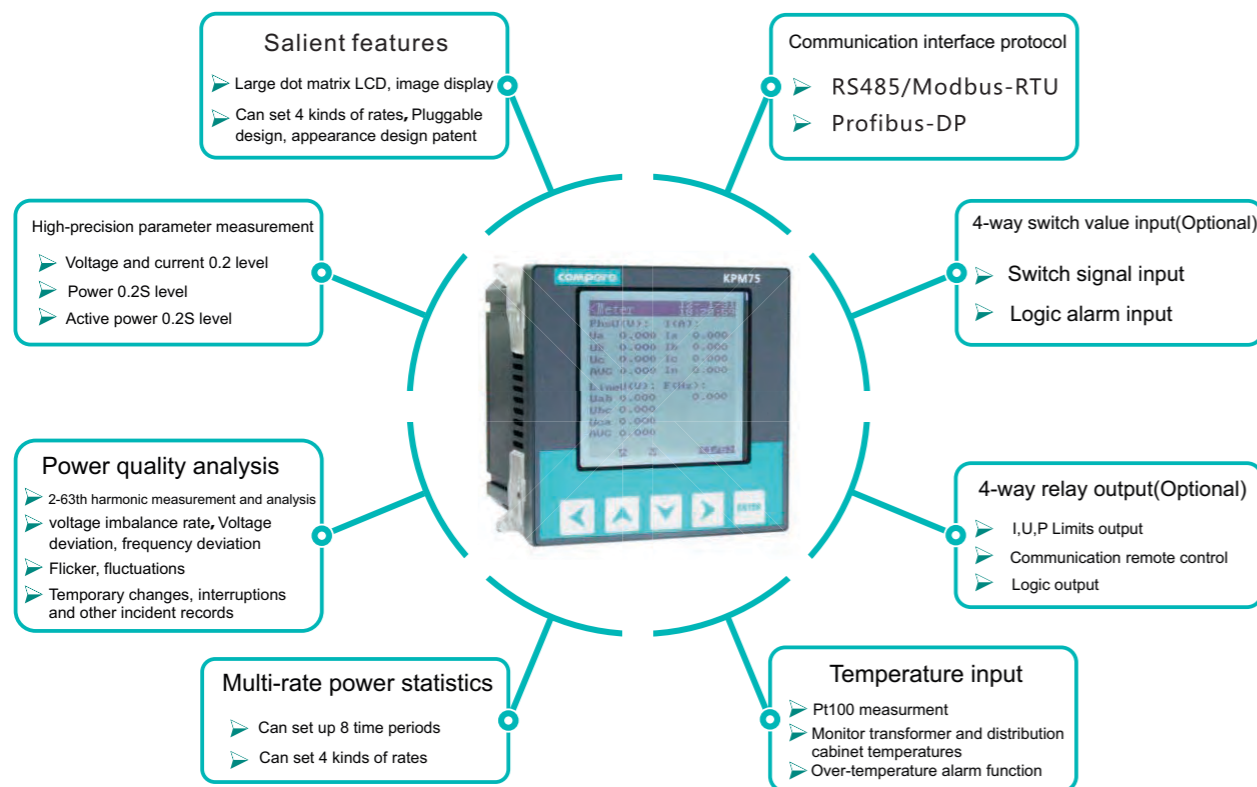


KPM75 Power quality analyser



The KPM75 is a new generation of high-end power quality analyzer that follow international power quality standards and monitor all power quality parameters such as flicker, short interruptions in recorded voltage, and harmonic up to 63 measurements with power data Statistics, IO signal control alarm, communication and other functions. Large graphic LCD display, pluggable function module design, widely used in key power applications, it is the ideal choice to monitor the distribution operation efficiency.

Product Features

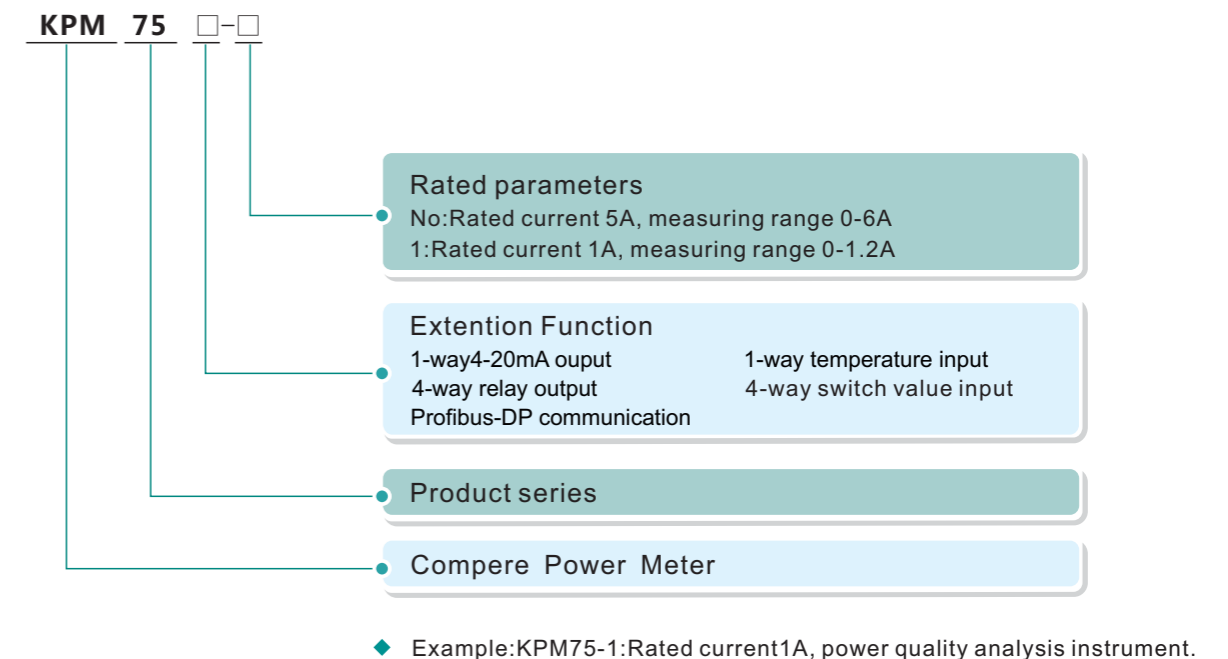


Function features



- Measure the real effective value of all-parameter
- 63th harmonic measurement and analysis
- Measure voltage imbalance rate, voltage deviation, frequency deviation and other power quality parameters
- Measurement and recording voltage fluctuations and flicker, inter-harmonics and other power quality parameters
- Short-term interruption of voltage, surge, sudden drop and other power quality events recorded
- Demand statistics function, record the current value and maximum value
- 0.2S four quadrant power statistics
- Can set 4 kinds rates 8 time period multi-rate power statistics
- RS485 communication interface, Modbus-RTU protocol, Optional Profibus-DP
- 1 road passive optical coupler collector active pulse output
- Can be extended 4-way passive switch value input
- Can be extended 4-way passive switch value input
- Instrument working hours, load time statistics
- 160 * 160 graphic LCD screen, rich in content, intuitive and clear
- Pluggable design, appearance design patents, replacement and maintenance easy

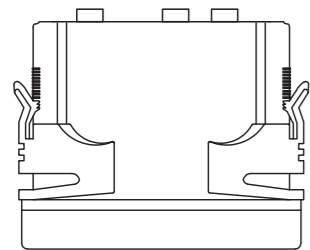
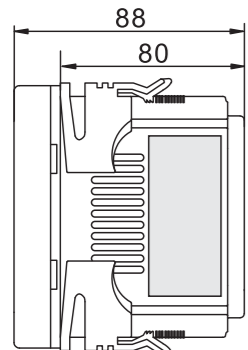
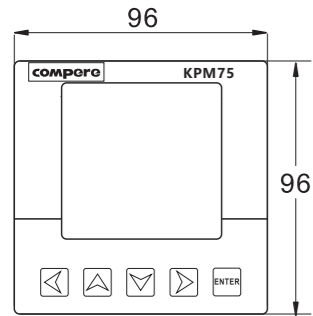
Products list



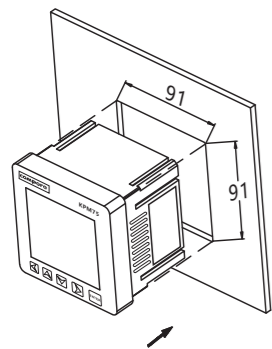
Application occasion

- Measure, monitor and control power distribution system parameters
- Collect energy consumption datathat cost center analysis needs
- Power quality analysis (Harmonic, voltage interruption, flicker and so on)
- Signal control alarm

Product size Technical Parameters



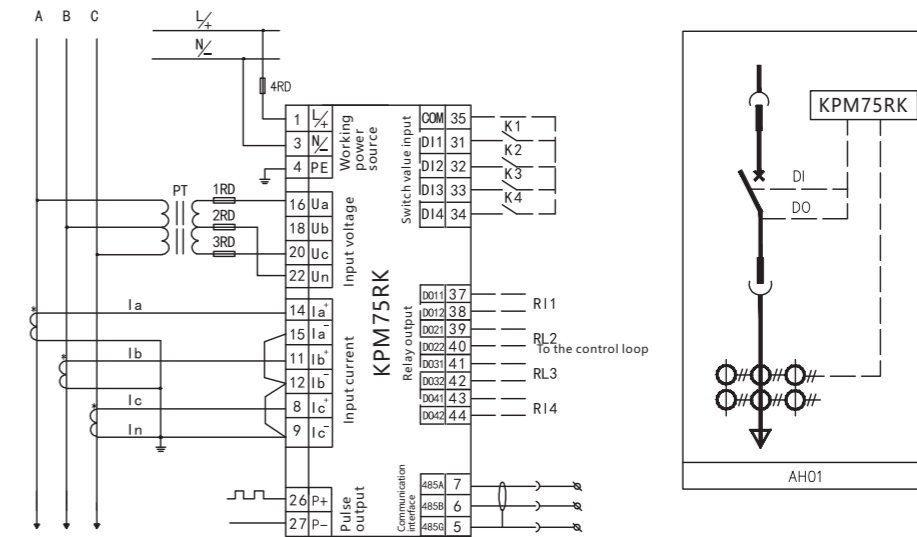
Installation instructions



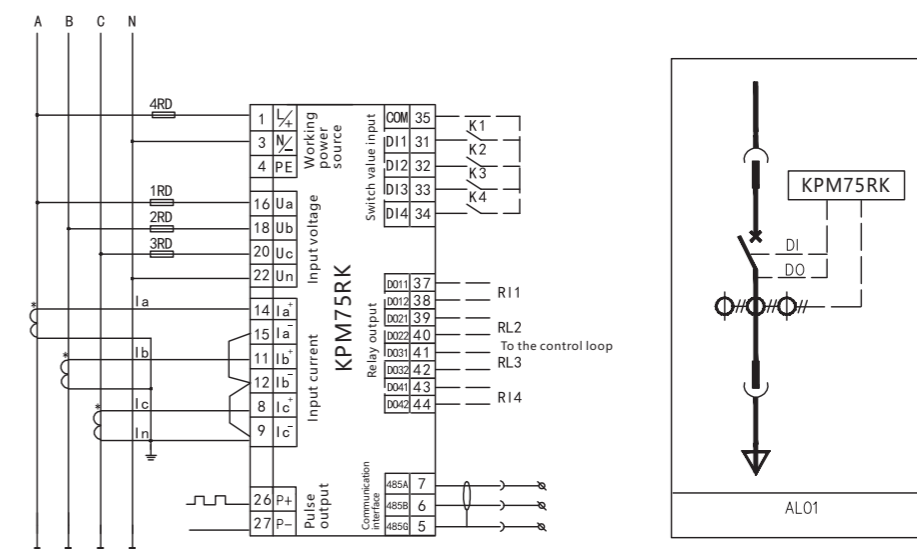
Working power source	Operating Voltage	AC 85-265V/DC 80-300V
	Rated power consumption	< 3VA
Input voltage	Rated voltage	57.7/100V,220/380V,380/660V
	Overvoltage capability	1.2 times rated voltage allowed, continuous work; 2 times the rated voltage allowed 1 second
	Rated power consumption	<0.5VA(per phase)
Input current	Measurement range	5A:0-6A; 1A:0-1.2A
	Rated current	Default 5A, input range 1-6A; optional 1A, input range 1-1.2A
	Overload capacity	1.2 times rated current allowed, continuous work; 20 times the rated current allowed 1 second
	Rated power consumption	<0.4VA(per phase)
Measurement accuracy	Measurement range	5A : >5mA ; 1A : >0.8mA
	Voltage	±0.2% (0.01V)
	Current	±0.2% (0.01A)
	Active power	±0.2% (0.01W)
	Reactive power	±2.0% (0.01var)
	Power factor	±1.0% (0.001)
	Frequency	±0.002Hz
Measurement display	Active energy	±0.2% (0.1kwh)
	Reactive energy	±2.0% (0.1kvarh)
	Basic parameter	Voltage / current, active power, reactive power, apparent power, frequency, active energy
	Power quality	2-63 harmonic distortion rate; total harmonic distortion rate; crest factor; current K factor; voltage / current imbalance rate, flicker, voltage surge, dips, short interruptions
Communication	Demand statistics	Power demand maximum, minimum and current value
	Multi-rate	8 time periods, 4 kinds of rates
	historical data	Record monthly average power factor and power data for the last three months
Input output	communication port	RS485, Photoelectric isolation interface
	Communication protocol	Modbus-RTU, 1200-38400BPS Proibus-DP,9600-12Mbps
Product features	Switch value input	4-way passive main line contact DI input, internal supply DC24V power supply
	Relay output	4-Way DO output, contact capacity 250VAC / 5A, 30VDC / 5A
	Pulse output	1-way passive optocoupler collector active pulse output
Working environment	Display	160 * 160 large dot-matrix LCD graphics display
	Extensions function	Pluggable expansion design
Safety	Degree of protection	Ip54
	Dimensions	96*96*88
	Operating temperature	-25°C ~ +70°C
Electromagnetic Compatibility (EMC)	Storage temperature	-30°C ~ +75°C
	Relative humidity	5% ~ 95% No condensation
	Altitude	Not more than 4000m
	Withstand voltage	AC2kV/min~1mA input-output-source (GB/T13729)
Electromagnetic Compatibility (EMC)	Insulation	>50MΩ (GB/T13729)
	Electrical fast transient/burst immunity test	IEC61000-4-4,Level4
	Surge immunity test	IEC61000-4-5,Level4
	Electrostatic discharge immunity	IEC61000-4-3,Level4
Electromagnetic Compatibility (EMC)	Power frequency magnetic field immunity	IEC61000-4-8,Level4

Typical wiring

KPM75RK High-voltage three-phase three-wire typical wiring



KPM75RK Low-voltage three-phase four-wire typical wiring



Explanation:

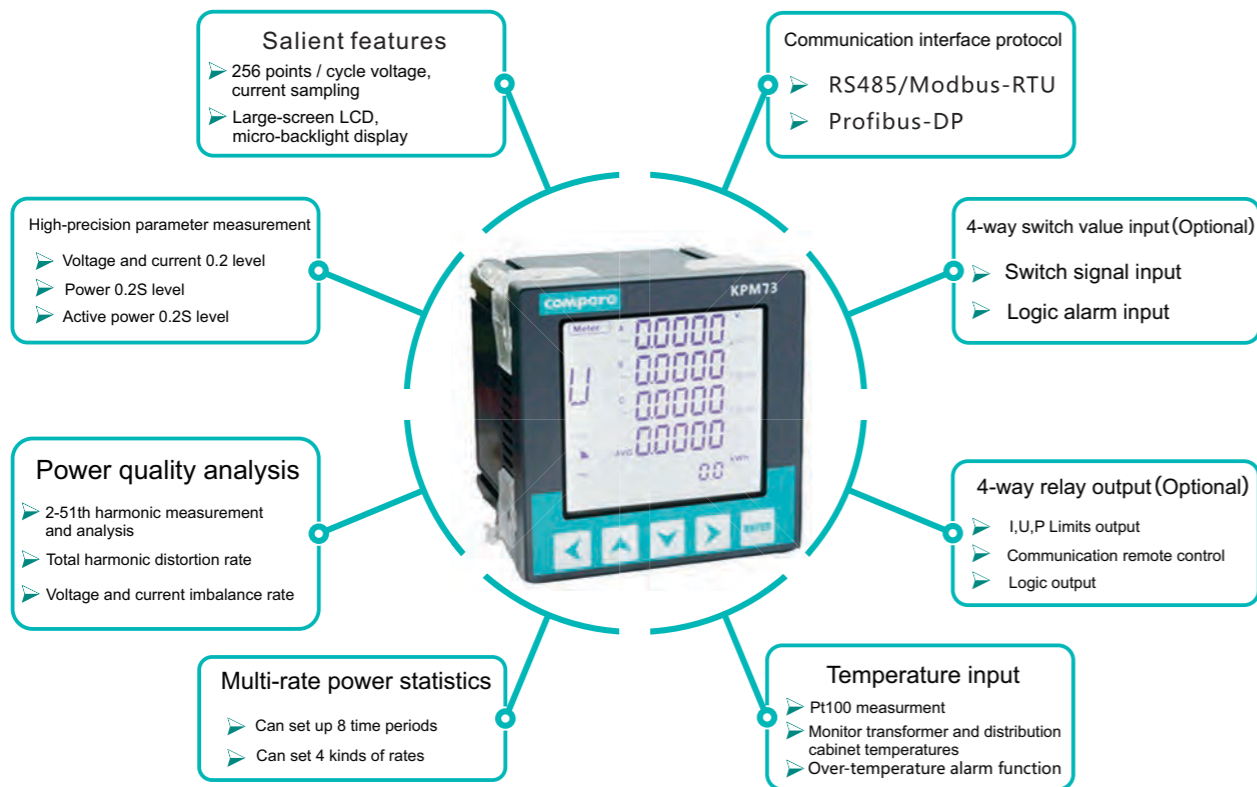
1. The wiring diagram is suitable for high voltage three-phase three-wire system, low voltage three-phase four-wire system, regard to other system wiring please refer to KPM75 instruction manual.
2. Terminal that without function description is invalid.
3. The function of dotted lines is optional.
4. The final interpretation belongs to Compere.

KPM73 Multifunction instruments



KPM73 Series Multifunction Meter with accurate measurement of power parameters, bi-directional four-quadrant energy measurement, statistics, recording functions, using advanced ARM processor and digital signal processing technology. Set a comprehensive three-phase electrical parameters measurement / display, energy accumulation, power quality analysis, multi rates statistics, digital input / output and communications networks in one. Has a fine manufacturing process, good electrical insulation and electromagnetic compatibility, large-screen LCD liquid crystal display, etc

Product Features

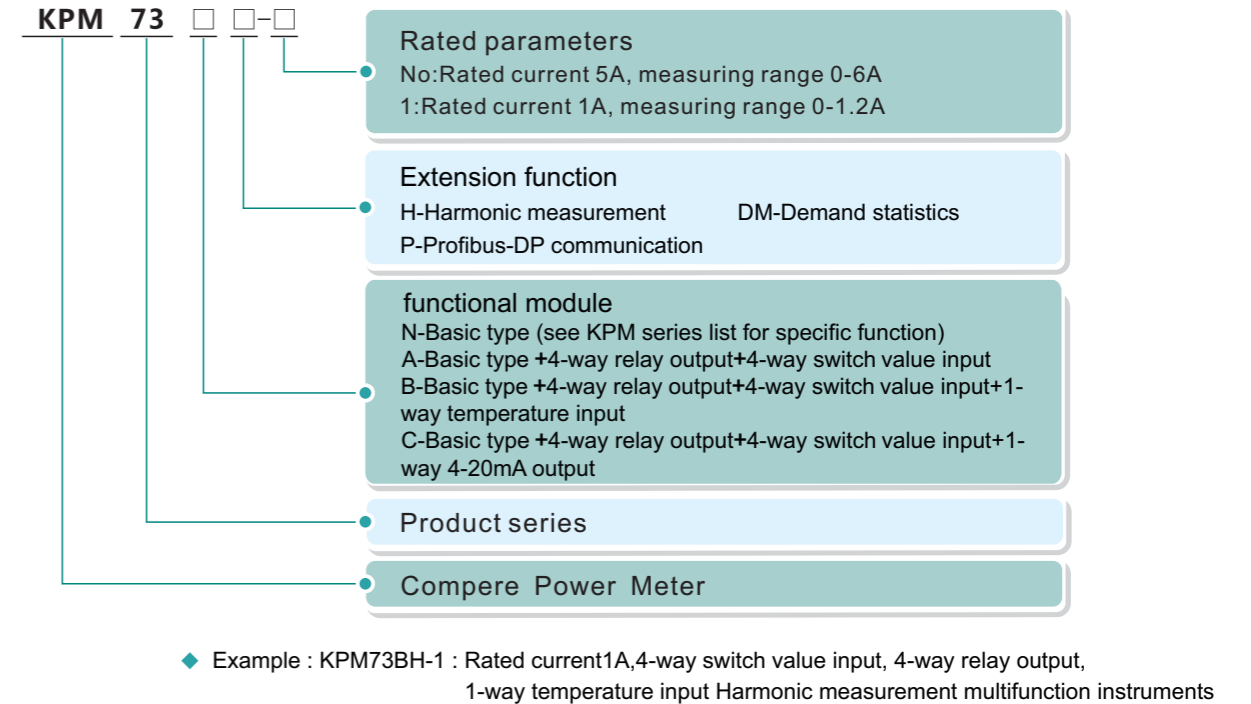


Function features



- Measure over 30 kinds of basic electricity such as phase / line voltage, three-phase current, zero sequence voltage, zero sequence current, active power, reactive power, apparent power, active energy, reactive energy, power factor, frequency
- Measure and display the average power factor of the last three months and accurately grasp the amount of monthly reactive energy consumption
- 0.5S grade four quadrant power statistics and multi-rate statistics
- Demand statistics and record the maximum value, minimum value
- Working hours, load time statistics
- Time recording function, can record 100 events
- Support up to 51th order harmonic calculation, total harmonic distortion rate calculation, unbalance rate, current K factor calculation
- Out of setting alarm function
- Standard 1-way RS485 communication interface, Modbus-RTU protocol, Optional Profibus-DP Communication module.
- Can be extended 4-way passive switch value input
- Extension 4-way relay output
- Can be extended 1-way 4-20mA analog output
- 1 road passive optical coupler collector active pulse output
- Can be extended 1-way PT100 temperature input
- 256 points / cycle voltage, current sampling, to ensure measurement accuracy
- FSTN large screen LCD, bright LED backlight uniform display, in the bright light and large viewing angle environment to obtain a good visual effect

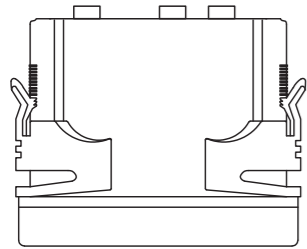
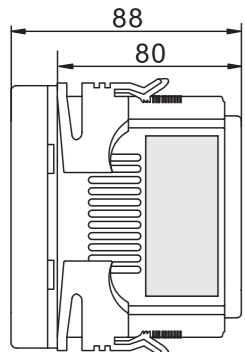
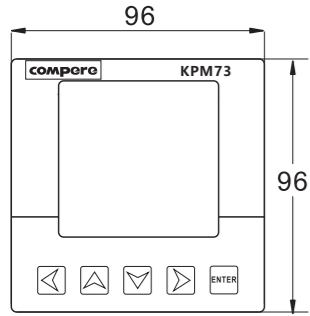
Products list



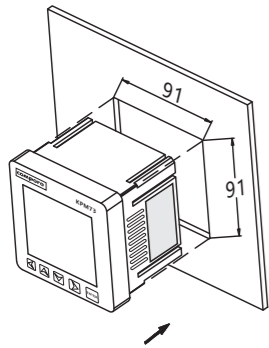
Application occasion

- Measure, monitoring power distribution system parameters
- Collect energy consumption data that cost center analysis needs
- Limit monitor alarm (such as over voltage, power consumption)
- Power quality analysis
- DC/Green building or DC

Product size Technical Parameters



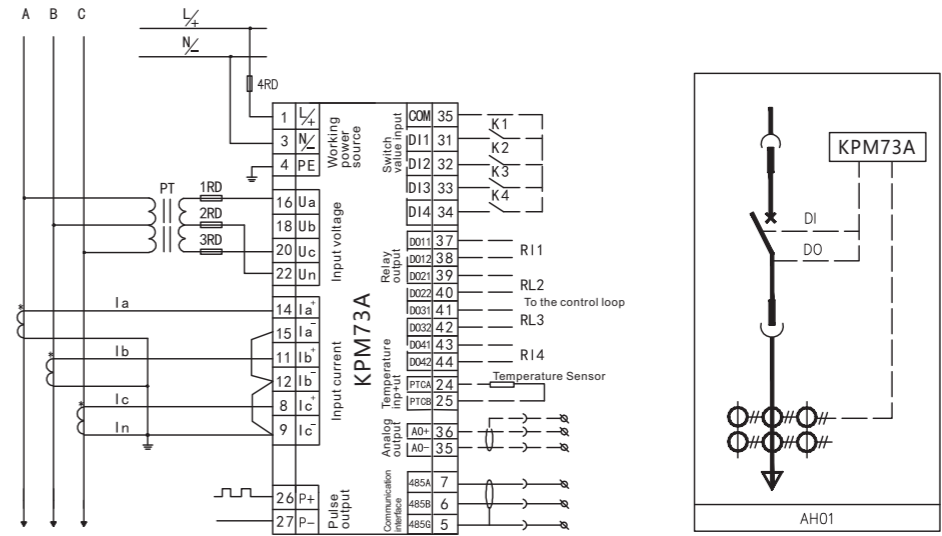
Installation instructions



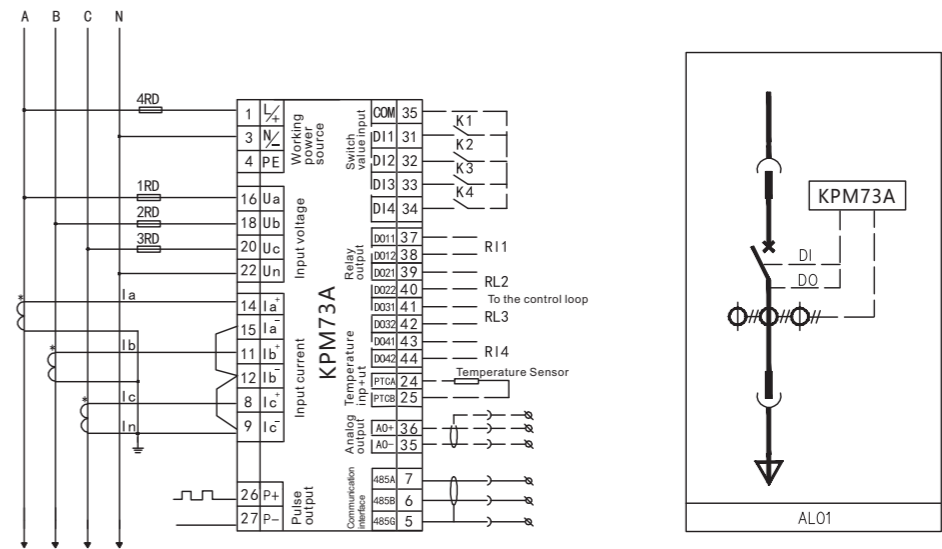
Working power source	Operating Voltage	AC 85-265V/DC 80-300V
	Rated power consumption	< 3VA
Input voltage	Rated voltage	57.7/100V,220/380V,380V/660V (Need to customize)
	Sill value	5V
	Overload capacity	1.2 times rated voltage allowed, continuous work; 2 times the rated voltage allowed 1second
	Power consumption	< 0.5VA/phase (rated)
Input current	Measurement range	Phase voltage(LN):50~260VA,Cline voltage(LL):90~450VAC
	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
Input output	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)
	Switch value input	4-way passive main line contact DI input, internal supply DC24V power source
	Relay output	4-way DO output,Contact capacity 250VAC/5A,30VDC/5A
Power quality monitor	Analog output	Output range 4~20mA,overload allows 1.2times
	Temperature input	Measure range 0°C~100°C
	Harmonic measurement	Voltage/current2~51th 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%(0.1W)
Comm unication	Reactive power	±2.0%(0.1kvar)
	Active energy	±0.5%(0.1kWh)
	Reactive energy	±2.0%(0.1kvarh)
	Power factor	±0.5%(0.001)
Electrical insulation	Frequency	±0.02Hz(0.01Hz)
	Temperature	±1°C (1°C)
Working environment	Communication interface	RS485,Profibus-V1,Photoelectric isolation interface
	Communication protocol	Modbus-RTU,1200~38400bps; Probibus-DP,9600~12Mbps
Electromagnetic Compatibility (EMC)	Power frequency withstand voltage	AC2kV/min~1mA Input-output-power source (GB/T 13729)
	Insulation resistance	>50MΩ (GB/T 13729)
Electromagnetic Compatibility (EMC)	Impact voltage	5kV (Peak), 1.2/50us (GB/T 13729)
	Operating temperature	-25°C ~ +70°C
Electromagnetic Compatibility (EMC)	Relative humidity	5%~95% No condensation
	Storage temperature	-30°C ~ +75°C
Electromagnetic Compatibility (EMC)	Altitude	No more than 4000m
	Electrical fast transient/burst immunity test	IEC61000-4-4,Level4
Electromagnetic Compatibility (EMC)	Surge immunity test	IEC61000-4-5,Level4
	Electrostatic discharge immunity	IEC61000-4-3,Level4
Electromagnetic Compatibility (EMC)	Power frequency magnetic field immunity	IEC61000-4-8,Level4

Typical wiring

KPM73A High-voltage three-phase three-wire typical wiring



KPM73A Low-voltage three-phase four-wire typical wiring



Explanation:

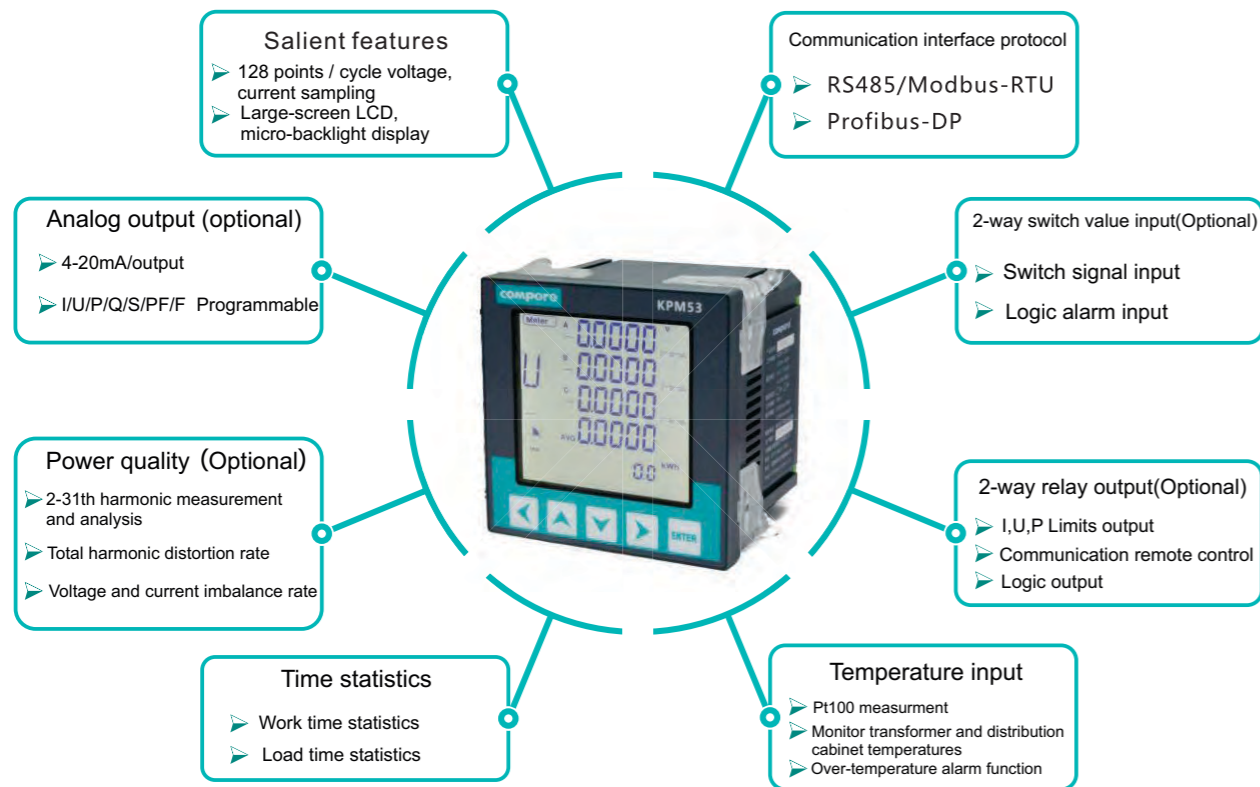
1. The wiring diagram is suitable for high voltage three-phase three-wire system, low voltage three-phase four-wire system, regard to other system wiring please refer to KPM73 instruction manual.
2. Analog output AO- and switch input common COM share one terminal.
3. Terminal that without function description is invalid.
4. The function of dotted lines is optional.
5. The final interpretation belongs to Compere.

KPM53 Three-phase smart power meter



KPM53 series of three-phase smart power meter with accurate measurement of power parameters, the instrument uses advanced ARM processor and digital signal processing technology designed from the set of three-phase electrical parameters measurement, display, power statistics, power quality analysis, digital input / Output and network communications in one; with high precision, strong isolation, stable performance, anti-interference ability and a little; the instrument also has a very strong expansion capabilities, such as monitoring of external switching action, 4-20mA analog output, but also The network management of the instrument can be realized through RS-485 / Modbus communication protocol

Product Features

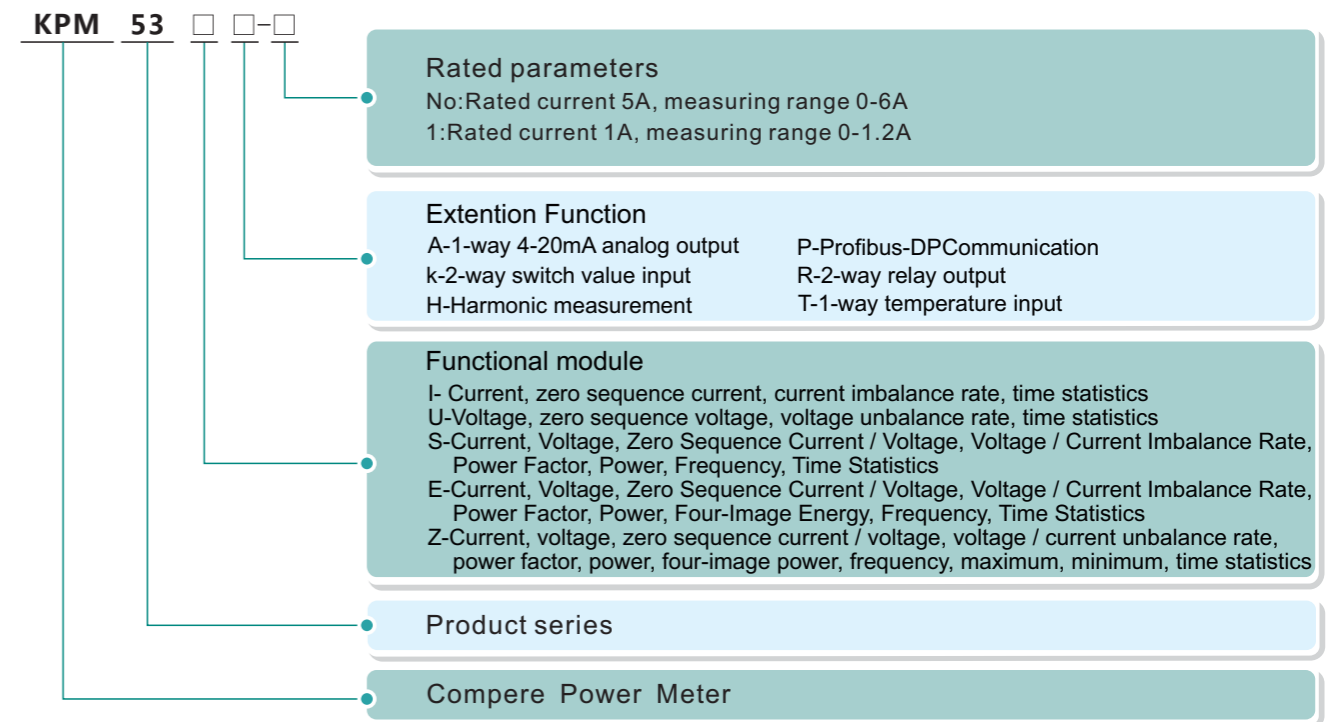


Function features



- Measuring three-phase AC voltage, current, voltage / current unbalance rate, four-quadrant power, active / reactive power, power factor, frequency, maximum / minimum
- Voltage to current ratio programmable
- Working hours, load time statistics
- Support up to 51th harmonic calculation
- 1-way RS485 communication interface, Modbus protocol
- Can be extended 2-way passive switch value input
- Can be extended 2-way relay output
- Can be extended 1-way 4-20mA analog output
- 1 road passive optical coupler collector active pulse output
- Can be extended 1-way PT100 temperature input
- Excellent temperature characteristics and work stability
- FSTN large screen LCD, bright LED backlight uniform display, in the bright light and large viewing angle environment to obtain a good visual effect

Products list

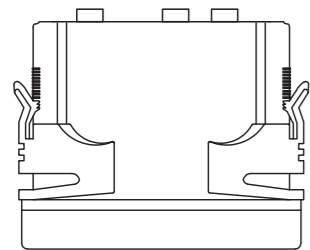
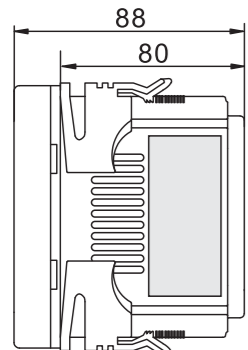
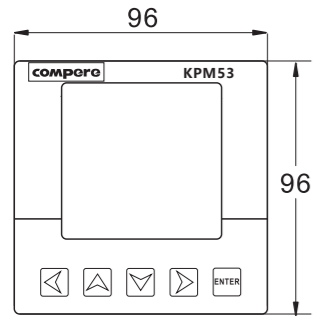


◆ Example:KPM53ZRH-1 : Rated current 1A, harmonic measurement function, 2 relay outputs, three-phase smart power meter.

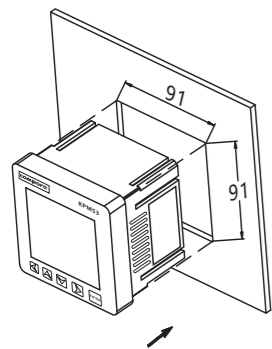
Application occasion

- Alternative analog pointer table
- Display and control of electrical parameters in mid-low voltage distribution System
- Collect energy consumption data that cost center analysis needs
- DC/Green building or DC

Product size Technical Parameters



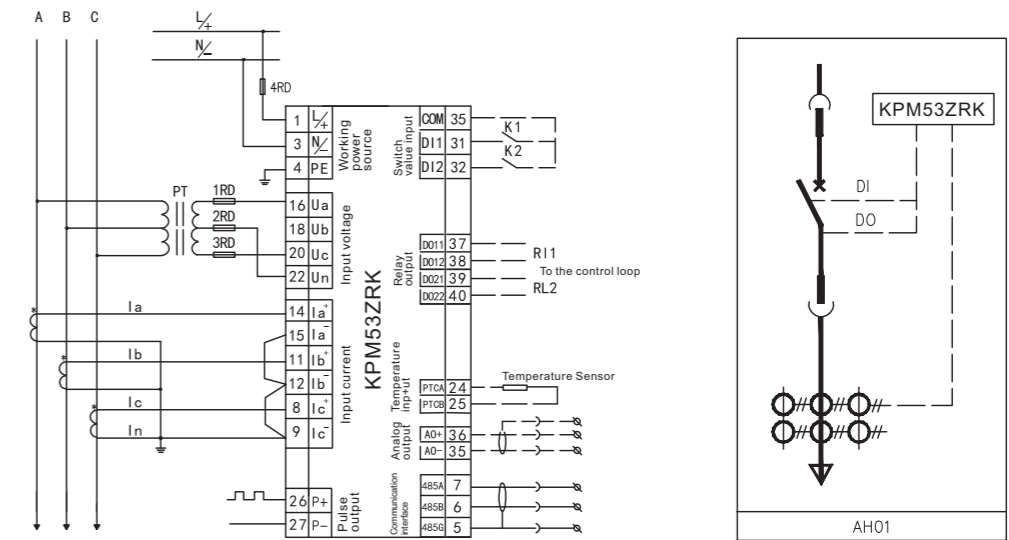
Installation instructions



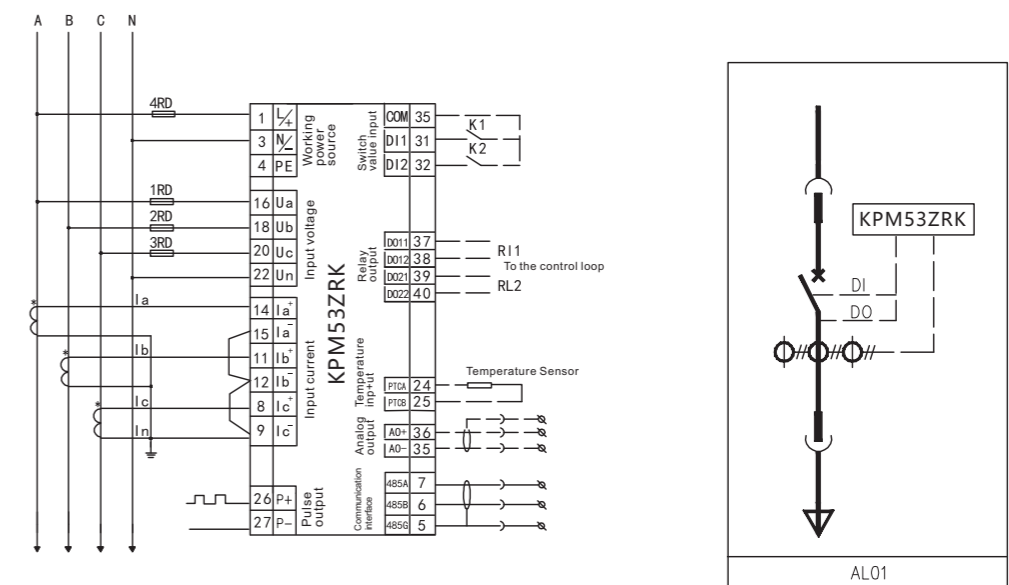
Working power source	Operating Voltage	AC 85-265V/DC 80-300V
	Rated power	< 3VA
Input voltage	Rated voltage	220V
	Sill value	5V
	Overload capacity	1.2 times rated voltage allowed, continuous work; 2 times the rated voltage allowed 1second
	Power consumption	<0.5VA/phase (rated)
	Measurement range	5~260VAC
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
Input output	Power consumption	<0.75VA/phase (Rated current 5A);<0.25VA/phase (Rated current 1A)
	Switch value input	2-way passive main line contact DI input, internal supply DC24V power source
	Relay output	2-way DO output,Contact capacity 250VAC/5A,30VDC/5A
	Analog output	Output range 4~20mA,overload allows 1.2times
Power quality monitor	Temperature input	Measure range 0°C~100°C
	Harmonic measurement	Voltage/current2~51th 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%(0.1W)
	Reactive power	±2.0%(0.1kvar)
	Active energy	±0.5%(0.1kWh)
	Reactive energy	±2.0%(0.1kvarh)
Communication	Power factor	±0.5%(0.001)
	Frequency	±0.02Hz(0.01Hz)
	Temperature	±1°C(1°C)
Electrical insulation	Communication interface	RS485,Photoelectric isolation interface
	Communication protocol	Modbus-RTU,1200~38400bps
Working environment	Power frequency withstand voltage	AC2kV/min~1mA Input-output-power source (GB/T 13729)
	Insulation resistance	>50MΩ (GB/T 13729)
Electromagnetic Compatibility (EMC)	Impact voltage	5kV (Peak), 1.2/50us (GB/T 13729)
	Operating temperature	-25°C ~ +70°C
	Relative humidity	5%~95% No condensation
	Storage temperature	-30°C ~ +75°C
Electromagnetic Compatibility (EMC)	Altitude	No 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
Electromagnetic Compatibility (EMC)	Power frequency magnetic field immunity	IEC61000-4-8,Level4

Typical wiring

KPM53ZRK High-voltage three-phase three-wire typical wiring diagram



KPM53ZRK Low-voltage three-phase four-wire typical wiring diagram



Explanation:

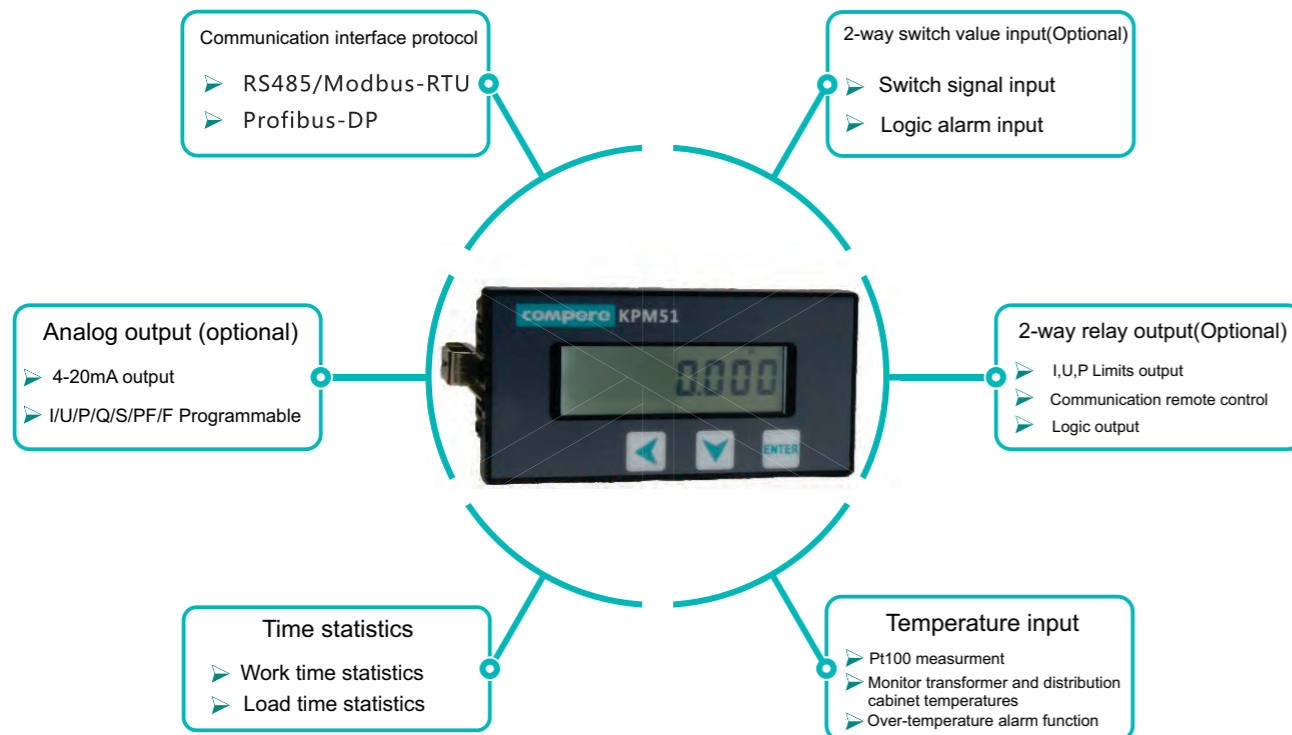
- 1.The wiring diagram is suitable for high voltage three-phase three-wire system,low voltage three-phase four-wire system, regard to other system wiring please refer to KPM53 instruction manual.
- 2.Terminal that without function description is invalid.
- 3.The function of dotted lines is optional.
- 4.The final interpretation belongs to Compere.

KPM51 Single-phase smart power meter



KPM51 is single-phase multifunction smart power meters, it is a collection of telemetry, remote communications, remote control, transmitter, it with feature-rich, cost-effective, can be independently used in different occasions power measurement and display, helping customers save investment and use of space, it has been widely used in various industries.

Product Features

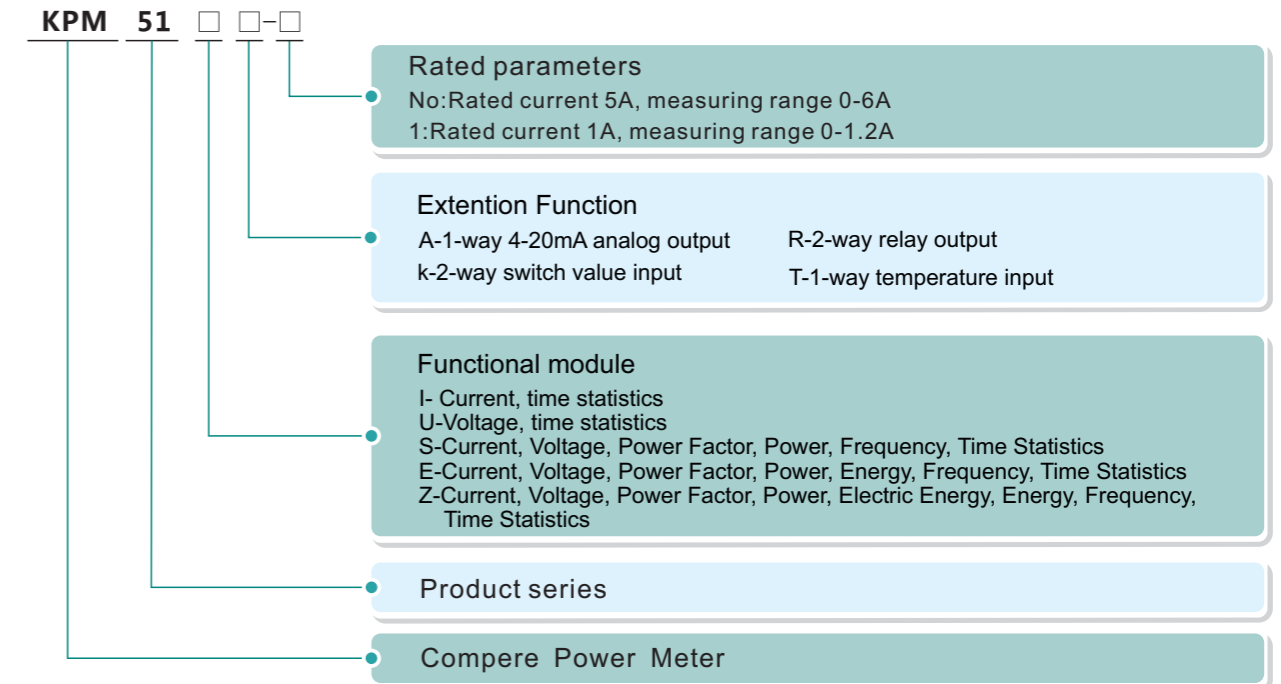


Function features



- Measuring single-phase AC voltage, current, active / reactive power, power factor, frequency
- Working hours, load time statistics
- 1-way RS485 communication interface, Modbus protocol
- Can be extended 2-way passive switch value input
- Can be extended 2-way relay output
- Can be extended 1-way 4-20mA analog output
- 1 road passive optical coupler collector active pulse output
- Can be extended 1-way PT100 temperature input
- Excellent temperature characteristics and work stability
- FSTN large screen LCD, bright LED backlight uniform display, in the bright light and large viewing angle environment to obtain a good visual effect

Products list

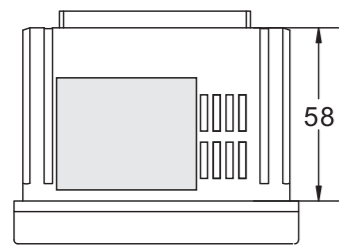
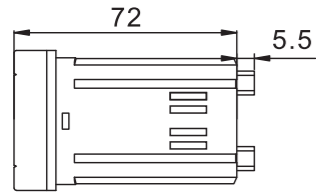
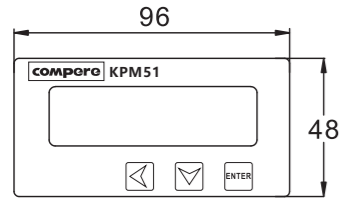


◆ Example: KPM 51Z-1: Rated current 1A, single-phase smart power meter.

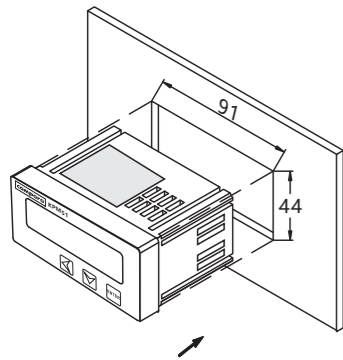
Application occasion

- Alternative analog pointer table
- Display and control of electrical parameters in distribution System
- Collect energy consumption data that cost center analysis needs
- DC/Green building or DC

Product size **Technical Parameters**



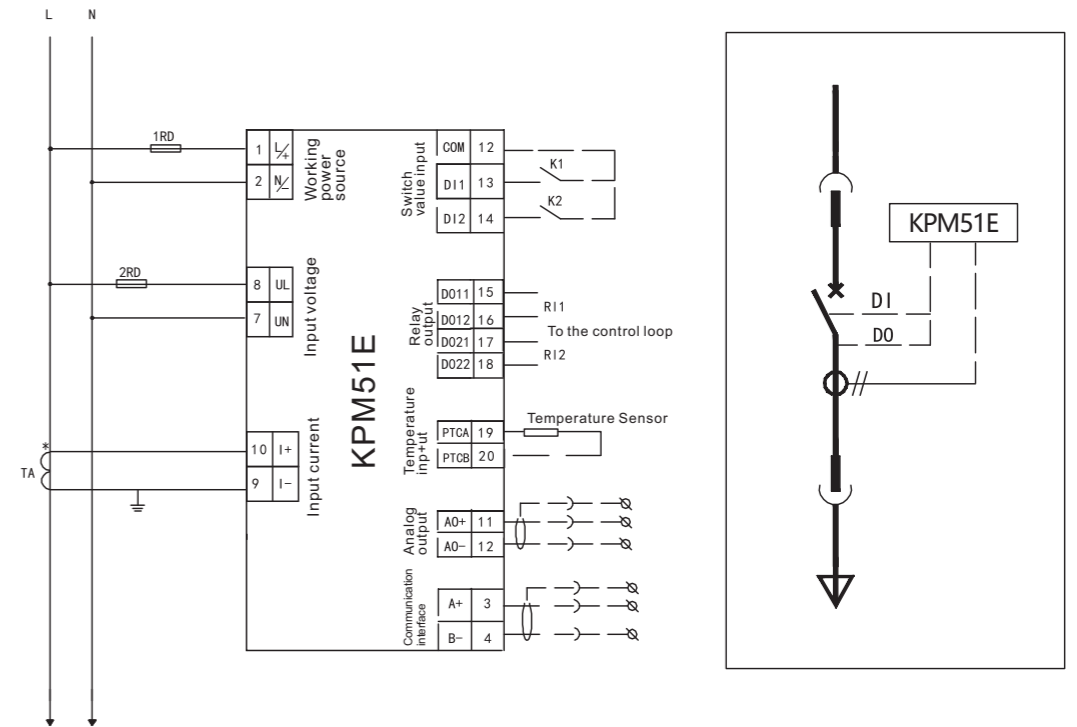
Installation instructions



Working power source	Operating Voltage	AC 85-265V/DC 80-300V
	Rated power	< 3VA
Input voltage	Rated voltage	220V
	Sill value	5V
	Overload capacity	1.2 times rated voltage allowed, continuous work; 2 times the rated voltage allowed 1second
	Power consumption	< 0.5VA/phase (rated)
	Measurement range	5~260VAC
	Frequency range	45~65Hz
Input current	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
	Relay output	2-way DO output,Contact capacity 250VAC/5A,30VDC/5A
	Analog output	Output range 4~20mA,overload allows 1.2times
Power quality monitor	Temperature input	Measure range 0°C~100°C
	Harmonic measurement	Voltage/current2~51th 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%(0.1W)
	Reactive power	±2.0%(0.1kvar)
	Active energy	±0.5%(0.1kWh)
	Reactive energy	±2.0%(0.1kvarh)
	Power factor	±0.5%(0.001)
Communication	Frequency	±0.02Hz(0.01Hz)
	Temperature	±1°C (1°C)
	Communication interface	RS485,Photoelectric isolation interface
	Communication protocol	Modbus-RTU,1200~38400bps;
Electrical insulation	Power frequency withstand voltage	AC2kV/min-1mA Input-output-power source (GB/T 13729)
	Insulation resistance	>50MΩ (GB/T 13729)
Working environment	Impact voltage	5kV (Peak),1.2/50us (GB/T 13729)
	Operating temperature	-25°C ~ +70°C
	Relative humidity	5%~95% No condensation
	Storage temperature	-30°C ~ +75°C
Electromagnetic Compatibility (EMC)	Altitude	No 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

KPM51E Low-voltage single-phase typical wiring diagram



Explanation:

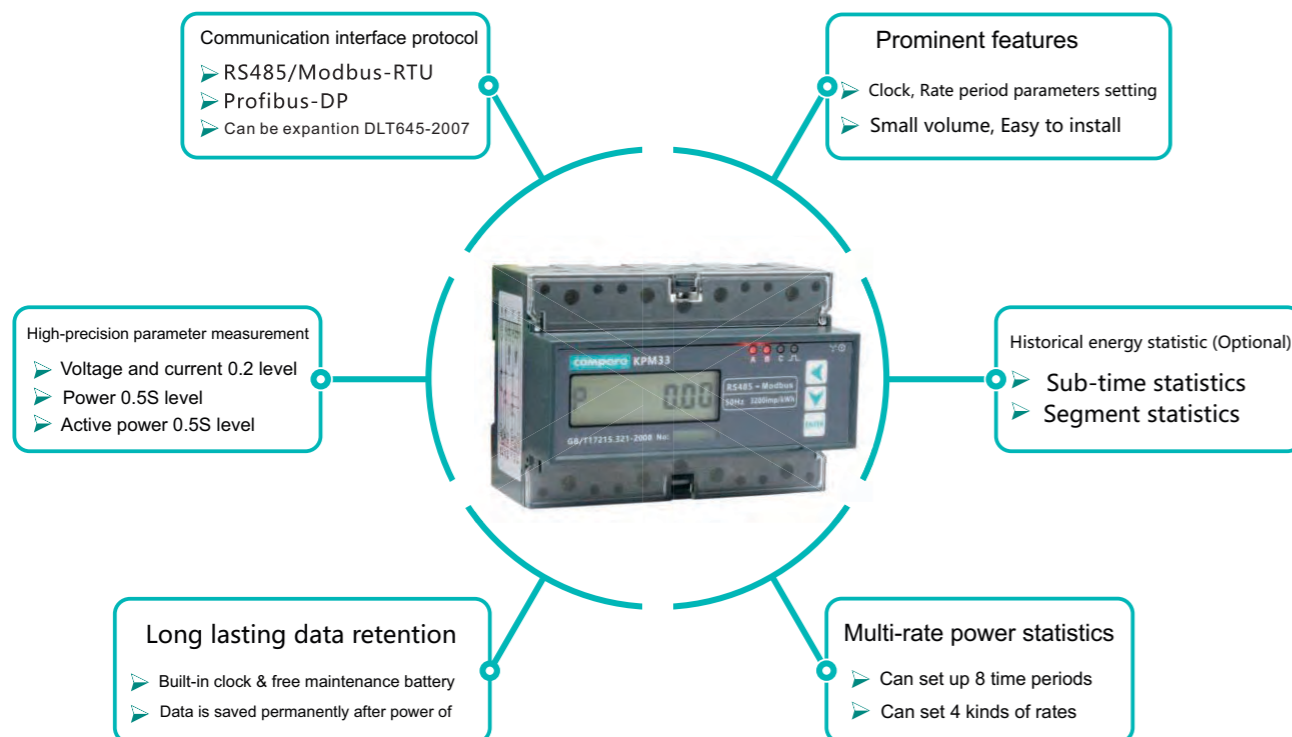
- 1.Working source:AC85-265V/DC80-300V
- 2.Terminal that without function description is invalid
- 3.The function of dotted lines is optional
- 4.The final interpretation belongs to Compere

KPM33 Three-phase guideway type smart energy meter



KPM33 three-phase guideway type smart energy meter with DIN35mm guideway type installation structure, LCD display, measurement of electrical energy and other electrical parameters, it can set some parameter, such as the clock, rate period, and so on, it also own electrical energy pulse output function; available RS485 communication interface with the host computer Realize data exchange. The energy meter has the advantages of small physical protection, high precision, good reliability and convenient installation, and the performance indexes are in line with the requirements of the national standard GB / T 17215-2002, GB / T 17883-1999 and power industry standard DL / T 614-2007 The technical requirements for government agencies and large public buildings in the measurement of electrical energy can also be used for enterprises and institutions for energy management assessment.

Product Features

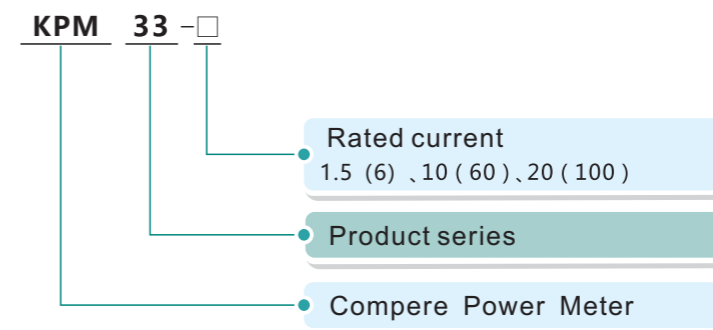


Function features



- 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
- LED indicates pulse, phase failure, reverse power, communication status
- 1 road passive optical coupler collector active pulse output
- 1 -way RS485 communication interface, Modbus communication, scalable DLT645-2007 protocol
- 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
- 35mm standard guideway type installation, beautiful appearance, easy installation

Products list

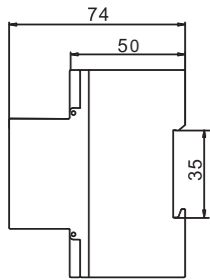
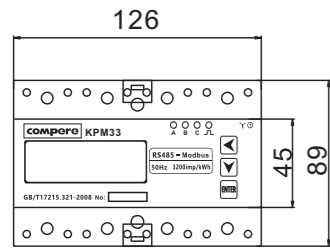


- ◆ Example: KPM 33-1.5(6):**Rated AC380V /1.5A(Max 6A), Multi-rate energy statistics, Historical power statistic,three-phase guideway type smart meter.**
- ◆ Ordering instructions: Before ordering please confirm rail meter access method, through The CT / 5A transformer indirect access, choosing use KPM33-1.5 (6).

Application occasion

Intelligent distribution management system | Internal energy consumption statistical analysis and charging statistics basis | Energy metering, automatic meter reading system | Energy and energy efficiency management system

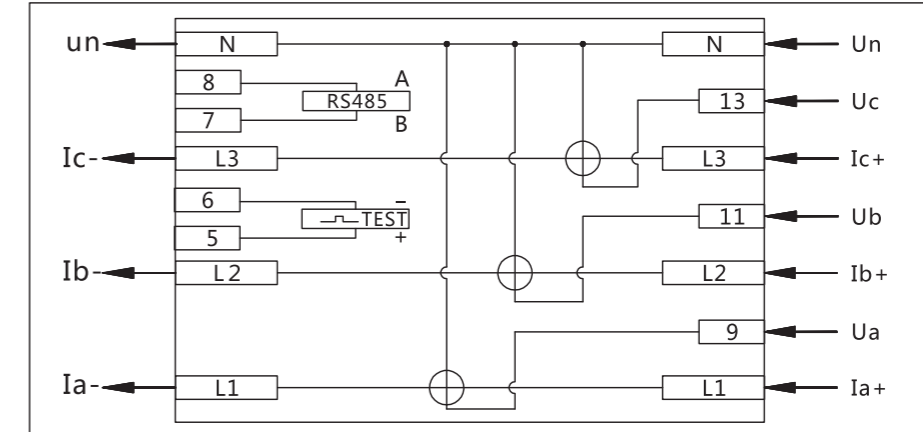
Product size Technical Parameters



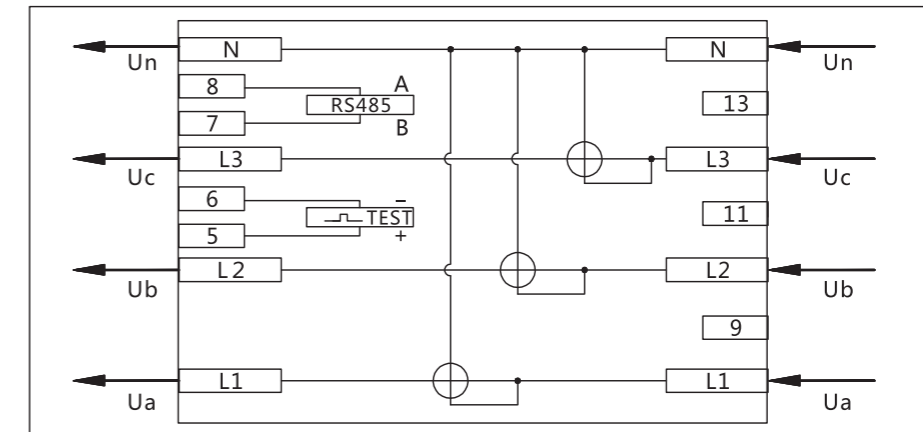
Input voltage	Rated voltage	3×220V/380V	
	Overall power consumption	<2VA	
	Frequency range	45~65Hz	
Input current	Rated current	1.5(6)A,10(60)A,20(100)A	
	Frequency range	45~65Hz	
Measurement accuracy	Voltage	±0.2%(0.01V)	
	Current	±0.2%(0.01A)	
	Active power	±0.5%(0.1W)	
	Reactive power	±2.0%(0.1var)	
	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	<0.5S/D
		Communication interface	RS485,Photoelectric isolation interface
Communication	Communication protocol	Modbus-RTU,1200~19200bps	
	Power frequency withstand voltage	AC2kV/min~1mA Input-output-power source (GB/T 13729)	
Electrical insulation	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	
Electromagnetic Compatibility (EMC)	Altitude	No 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

KPM33 Low-voltage three-phase four-wire by CT / 5A indirectly access typical wiring diagram



KPM33 low-voltage three-phase four-wire direct access typical wiring diagram



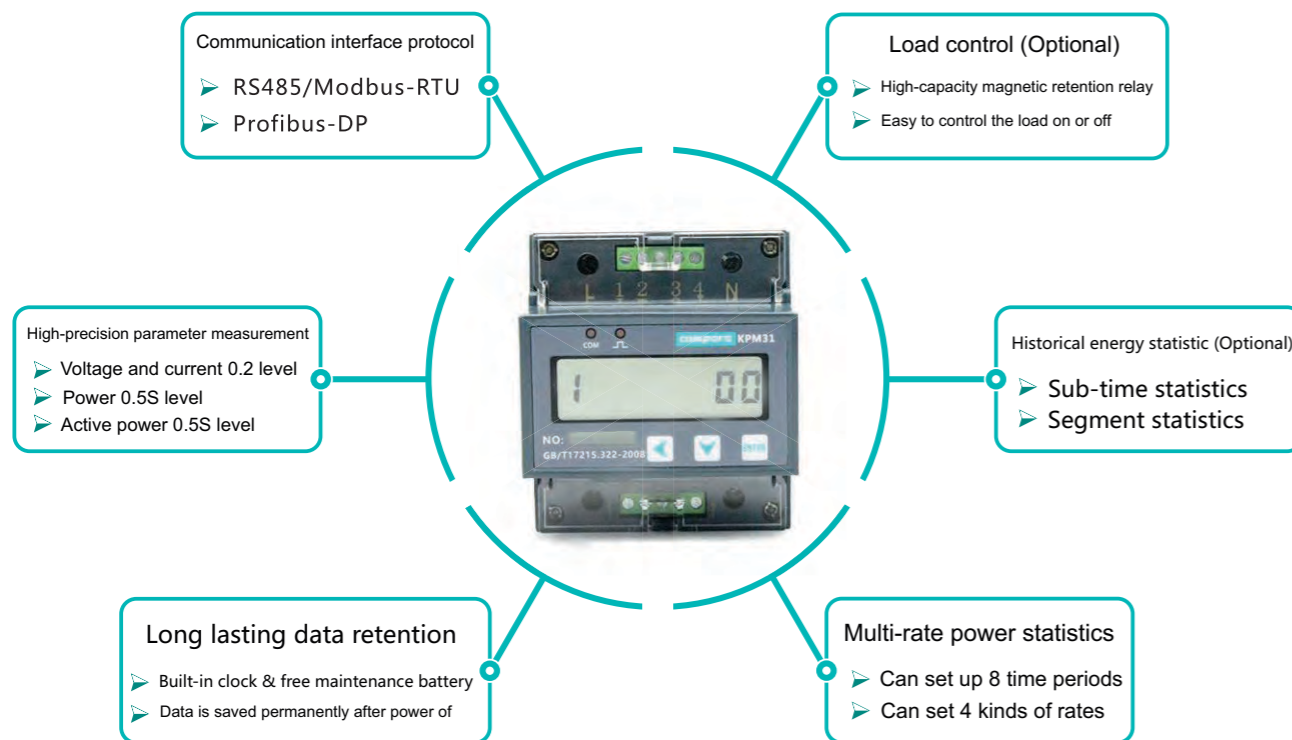
Note: By CT / 5A indirect access, the current transformer on both sides to be grounded.

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

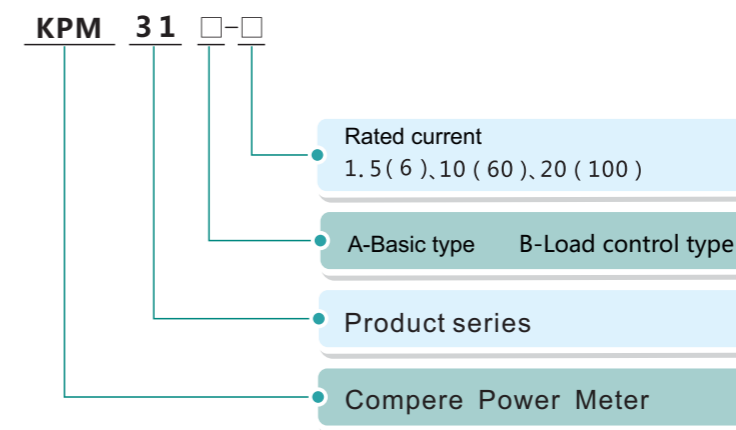


Function features



- 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

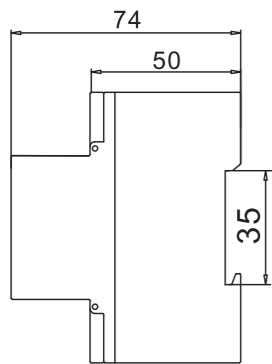
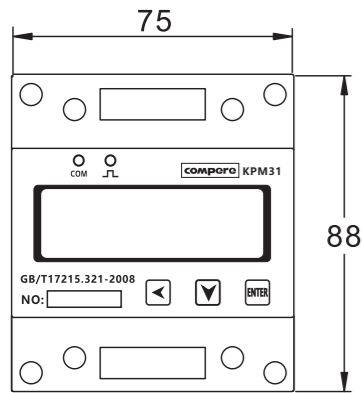
Energy and energy efficiency management system

Internal energy consumption statistical analysis and charging statistics basis

Energy metering, automatic meter reading system

Intelligent distribution management system

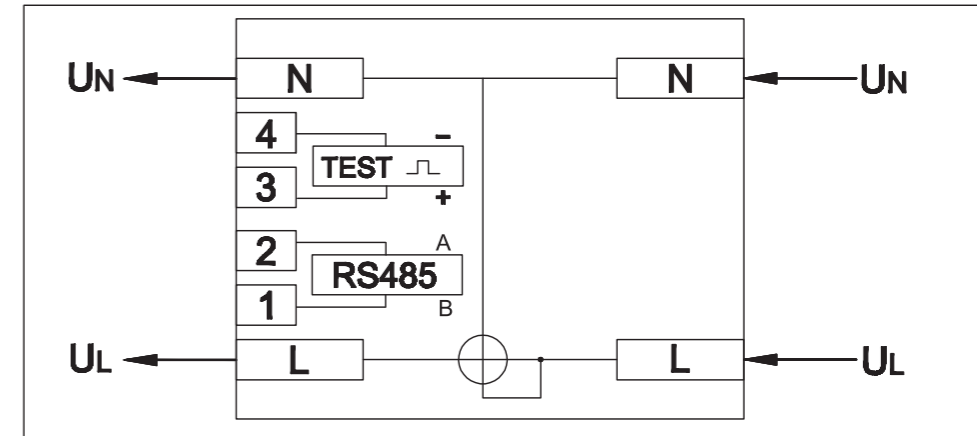
Product size **Technical Parameters**



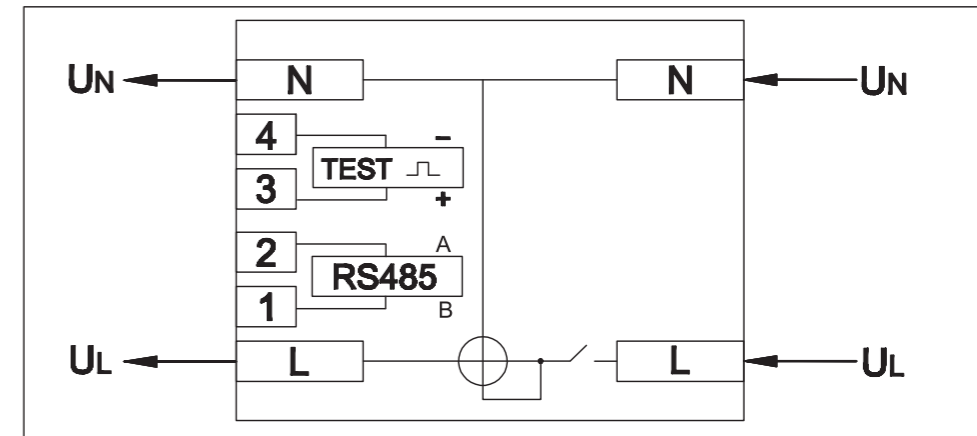
Input voltage	Rated voltage	AC 110V/220V
	Overall power consumption	<5VA
	Frequency range	45~65Hz
Input current	Rated current	1.5(6)A,10(60)A,20(100)A
	Frequency range	45~65Hz
Measurement accuracy	Voltage	±0.2%(0.01V)
	Current	±0.2%(0.01A)
	Active power	±0.5%(0.1W)
	Reactive power	±2.0%(0.1var)
	Active 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.

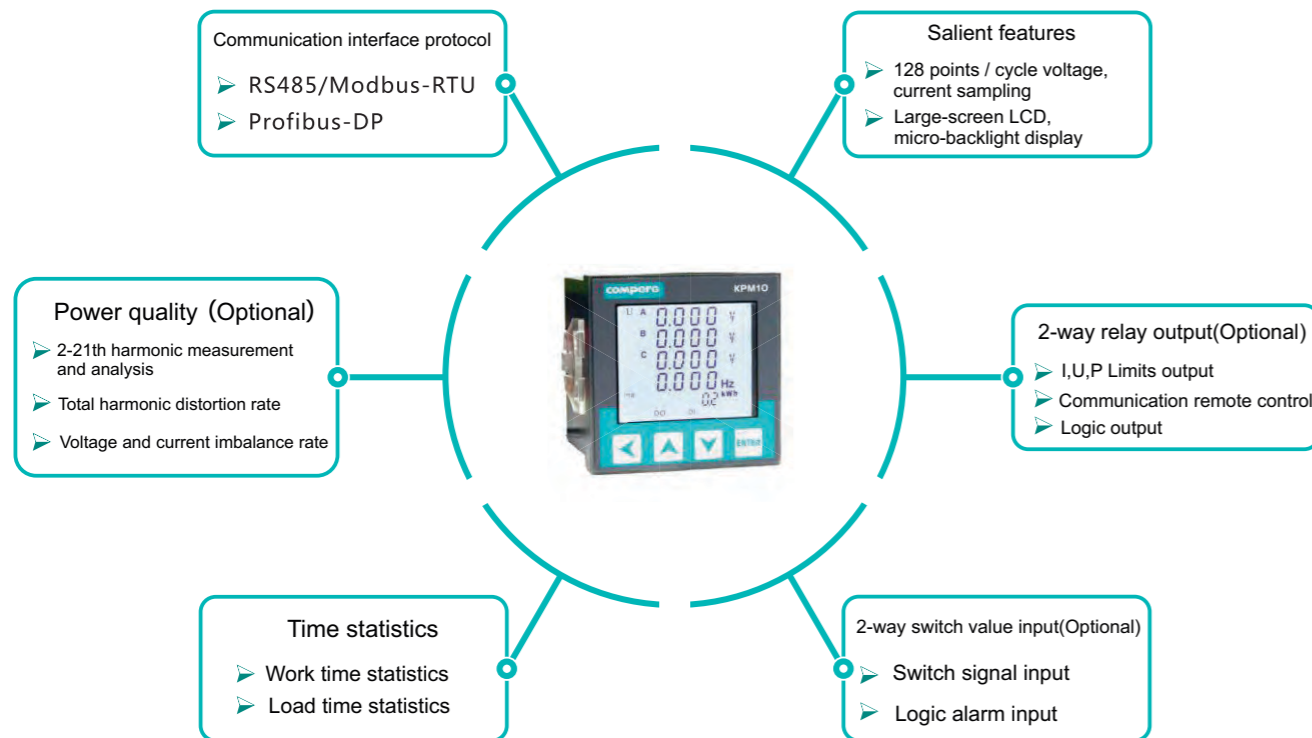


KPM10Three-phase multifunction power meter



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

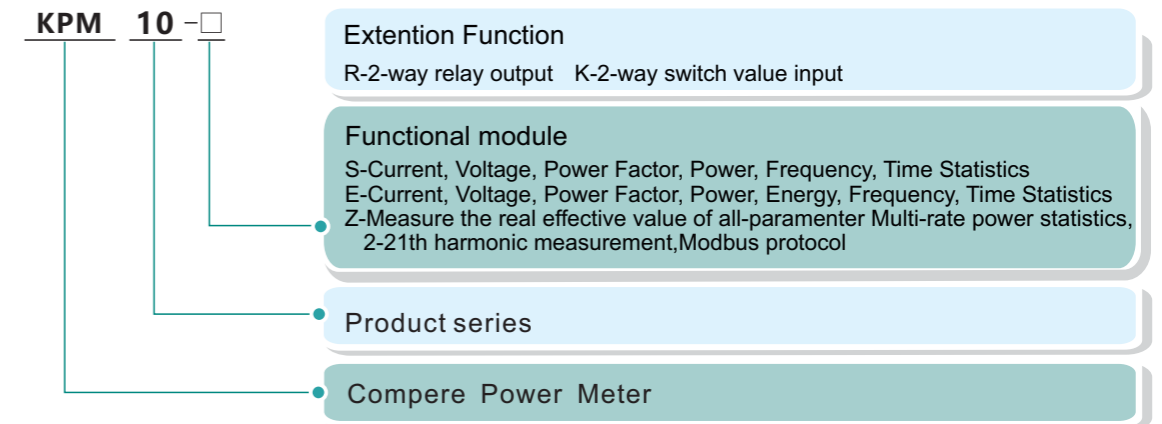


Function features



- 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



Application occasion

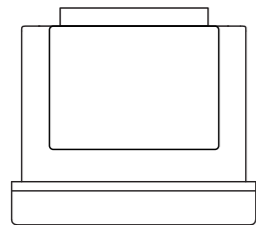
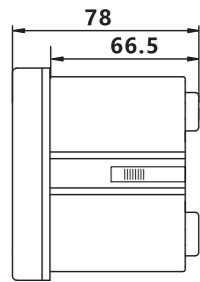
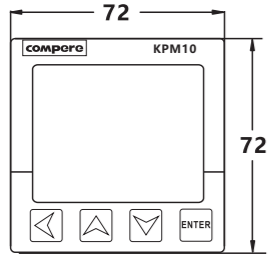
Energy and energy efficiency management system

Internal energy consumption statistical analysis and charging statistics basis

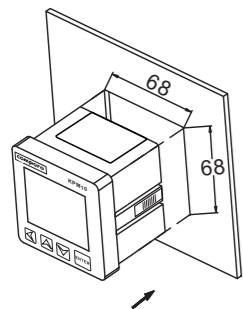
Energy metering, automatic meter reading system

Intelligent distribution management system

Product size Technical Parameters



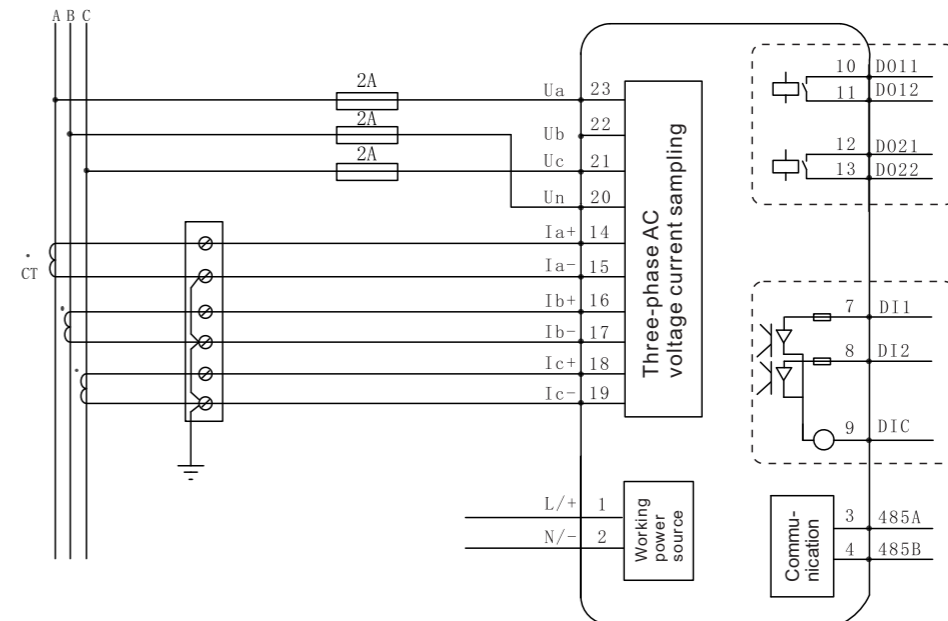
Installation instructions



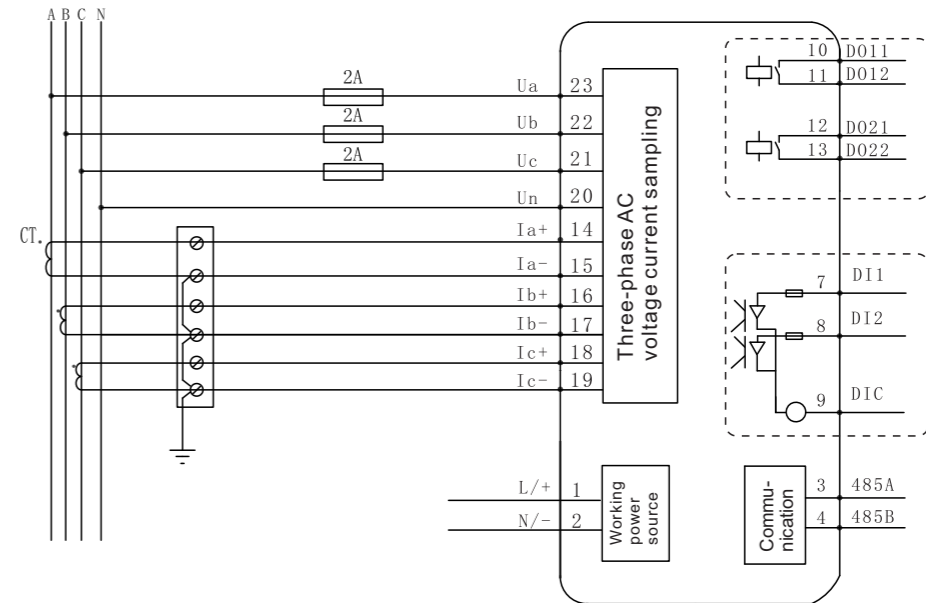
Working power source	Operating Voltage	AC 85-265V/DC 80-300V
	Rated power	<3VA
Input voltage	Rated voltage	57.7/100V,220/380V,380/660V(needs customization)
	Sill value	5V
	Overtoltage capability	1.2 times rated voltage allowed, continuous work; 2 times the rated voltage allowed 1 second
	Power consumption	<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)
Communication	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:

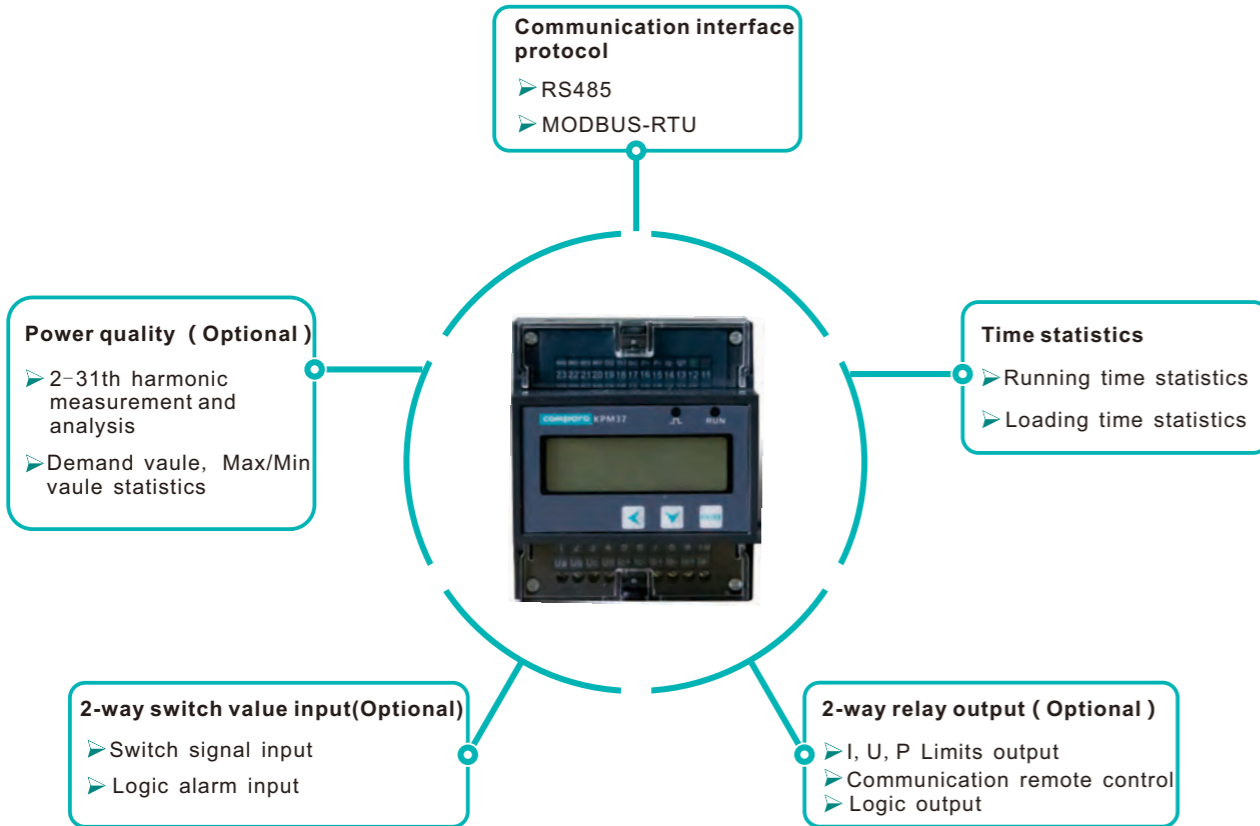
- 1.The wiring diagram is suitable for low voltage three-phase three-wire system, low voltage three-phase four-wire system
- 2.The function of dotted lines is optional
- 3.The final interpretation belongs to Compere

KPM37 Three Phase Rail Smart Power Meter



KPM37 Three Phase Rail Smart Power Meter adopts DIN 35MM rail type installation structure and LCD display. It integrates three-phase electric parameter measurement, 2~31th harmonic analysis and time statistics. It is equipped with 1 RS485 communication interface. The network management of the instrument can be realized through the Modbus communication protocol. The meter can also expand 2-way digital input and 2-way relay output. KPM37 has the advantages of small size, high accuracy, high reliability, easy installation, etc. It is mostly used for projects for system integration, wire line modification and in limited or inconvenient installation space, etc.

Product Features

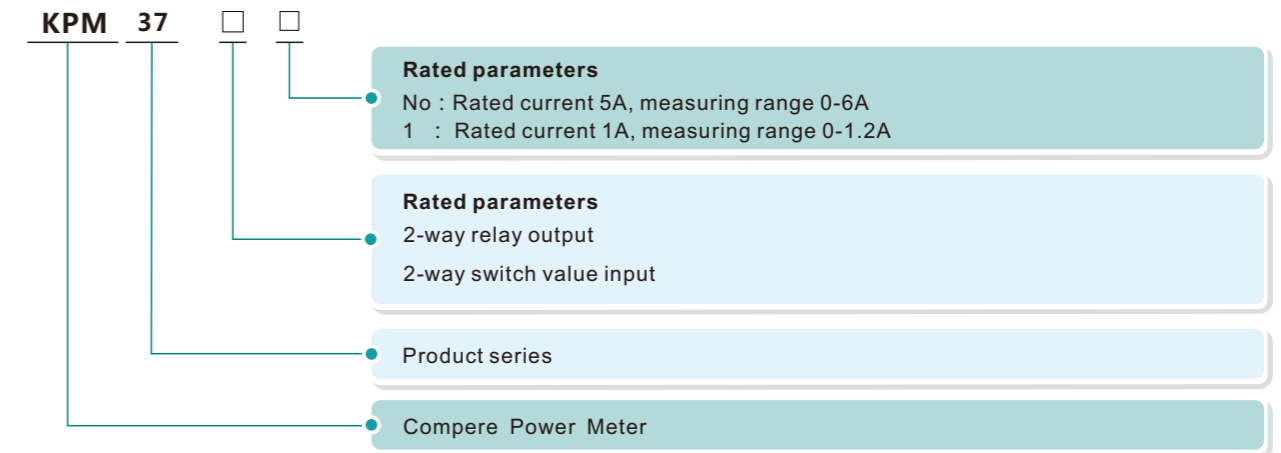


Function features



- Measuring three-phase AC voltage, current, four-quadrant energy, active/reactive power, apparent power, power factor, frequency, demand, max & min value etc.
- programmable voltage current transformation ratio
- Running time, loading time statistics
- 2-31th harmonic calculation & analysis
- 1 *RS485 port with Modbus communication protocol
- Expandable 2*DI
- Expandable 2*DO
- Excellent temperature characteristics and work stability
- 7+1 digits LCD screen display

Standard of optional type



Application occasion

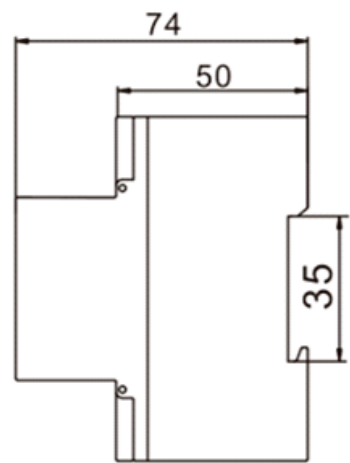
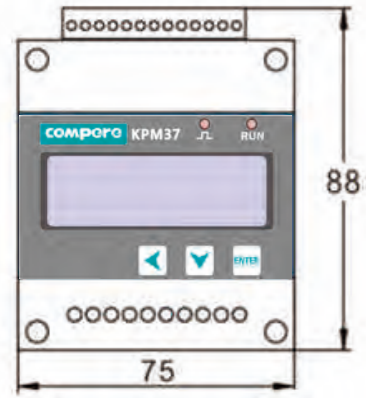
Energymangement system integration

Old project or wire line modification

Projects with limited space or inconvenient installation

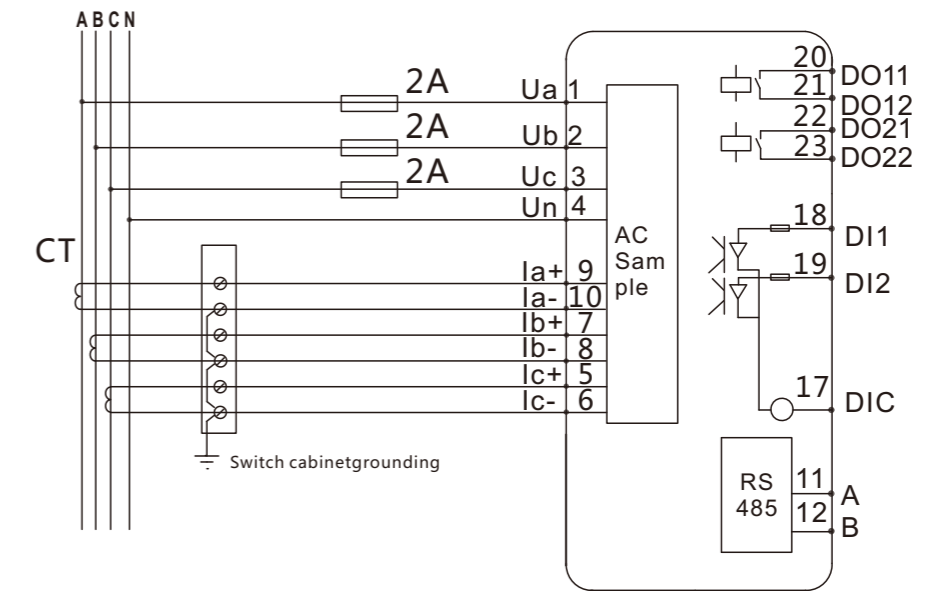
Projects with limited space or inconvenient installation

Product size **Technical Parameters**

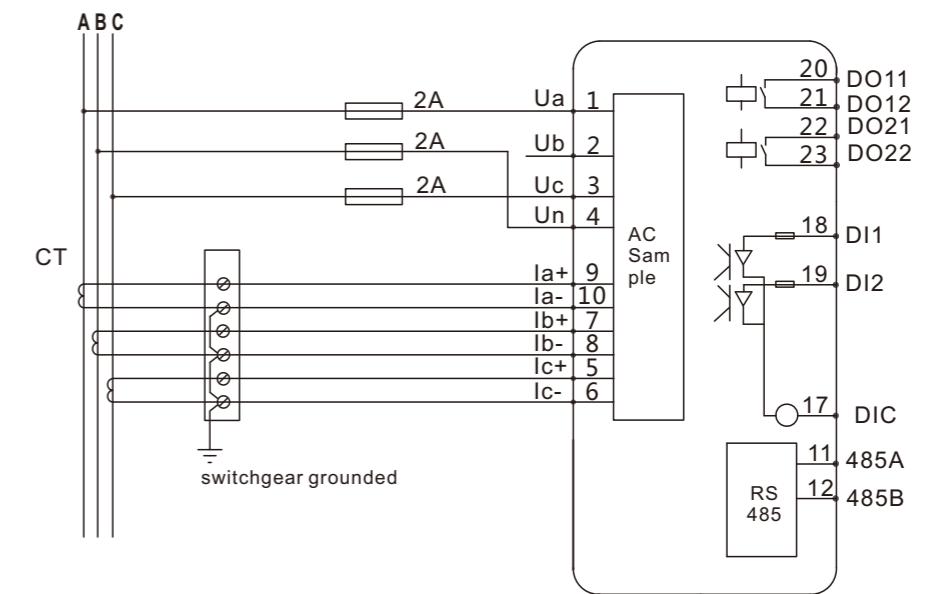


Working power source	Operating Voltage	AC85~265V/DC80~300V
	Rated power	< 3VA
Input voltage	Rated voltage	57.7/100VAC, 220/380VAC
	Overload capacity	1.2 times rated voltage allowed, continuous work; 2 times the rated voltage allowed 1 second
	Power consumption	<0.5VA/phase(rated)
	Measurement range	LN:50~260VAC, LL:90~450VAC
Input current	Frequency range	45~65Hz
	Rated current	Default5A, Input range 1-6A ,Optional 1A ,Input range 1-1.2A
	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
	Switchinput	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/current2~31th harmonic distortion rate, total harmonic distortion rate
	programmable voltage current transformation ratio	Phase voltage, phase current
	Harmonic distortion rate (THD)	voltage, current
Measurement accuracy	Voltage	±0.2%(0.01V)
	Current	±0.2%(0.01A)
	Active power	±0.5%(0.1W)
	Reactive power	±2.0%(0.1var)
	Apparent power	±0.5%(0.1VA)
	Active energy	0.55(0.1kWh)
	Reactive energy	±2.0%(0.1kvarh)
	Power factor	±0.5%(0.001)
Communication interface	Frequency	±0.02Hz(0.01Hz)
	Communication interface	RS485
	Communication protocol	Modbus-RTU, 1200~19200bps
Communication interface	Power frequency withstand voltage	AC2kV/min~1mA Input-output-power source
	Insulation resistance	>50MΩ
Working environment	Impact voltage	5kV(Peak), 1. 2/50us
	Operating temperature	-25°C~+70°C
	Relative humidity	5%~95% No condensation
	Storage temperature	-30°C~+75°C
Electromagnetic Compatibility	Altitude	No more than 3000m
	Surge (impact) immunity	GB/T 17626. 5-2008, Level4, IEC61000-4-2, level 4
	Fast pulse group immunity	GB/T 17626. 4-2008, Level4, IEC61000-4-5, level 4
	Electrostatic discharge immunity	GB/T 17626. 2-2006, Level4, IEC61000-4-4, level 4
	Power frequency magnetic field immunity	GB/T 17626. 8-2006, Level4, IEC61000-4-8, level 4

Typical wiring



Four lines star system: Direct wiring without voltage transformer(PT)

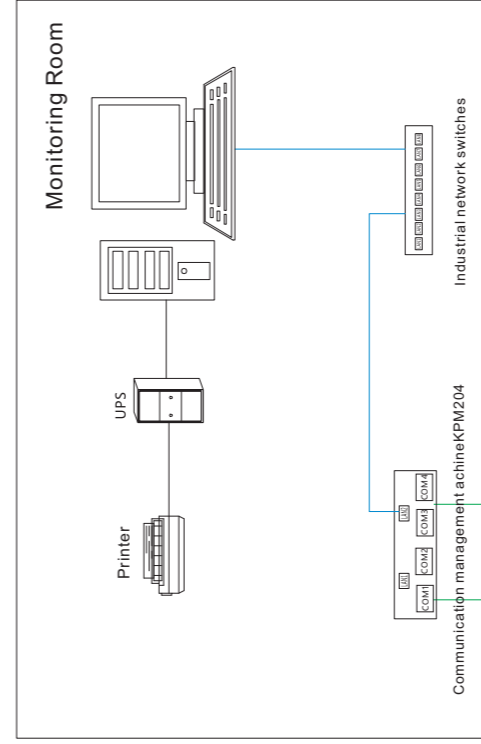


Triangle system: No voltage transformer(PT), 3 current transformers(CT) (device is set to P3L3)

Note:

1. Terminals without function description are invalid
2. The final interpretation is owned by Henan Compere Smart Technology Co.,Ltd.

APPLICATION PROGRAM



Meter selection

KPM204 : 2-way high-speed network port, 4 -way photoelectric isolation RS485 serial port to achieve some functions that communication management , data network port , data forwarding , protocol conversion , pre-processing etc.

KPM73 : Support measuring all parameter, 51th harmonic analysis, 4-way passive switch input and 4-way relay output, use LCD display with high brightness and big screen, support RS485 communication protocol.

System description

T@Power uses three-tier design structure, it include system management layer, network communication layer, site equipment layer.

System management layer uses T@Power Smart distribution management system;

Network communication layer uses KPM200 series communication management machine;

Site equipment layer uses KPM73 multifunction power meter, KPM53-Z series three phase smart power meter.

