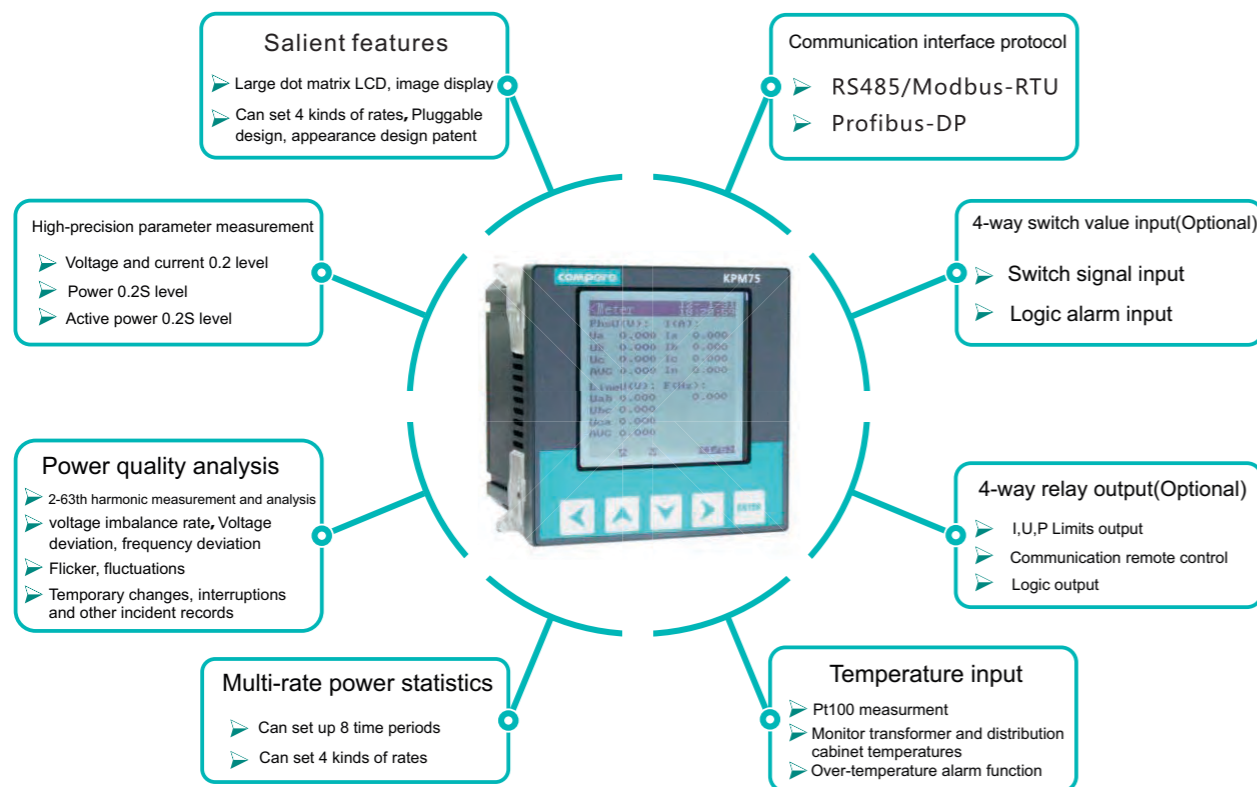


KPM75 Power quality analyser



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

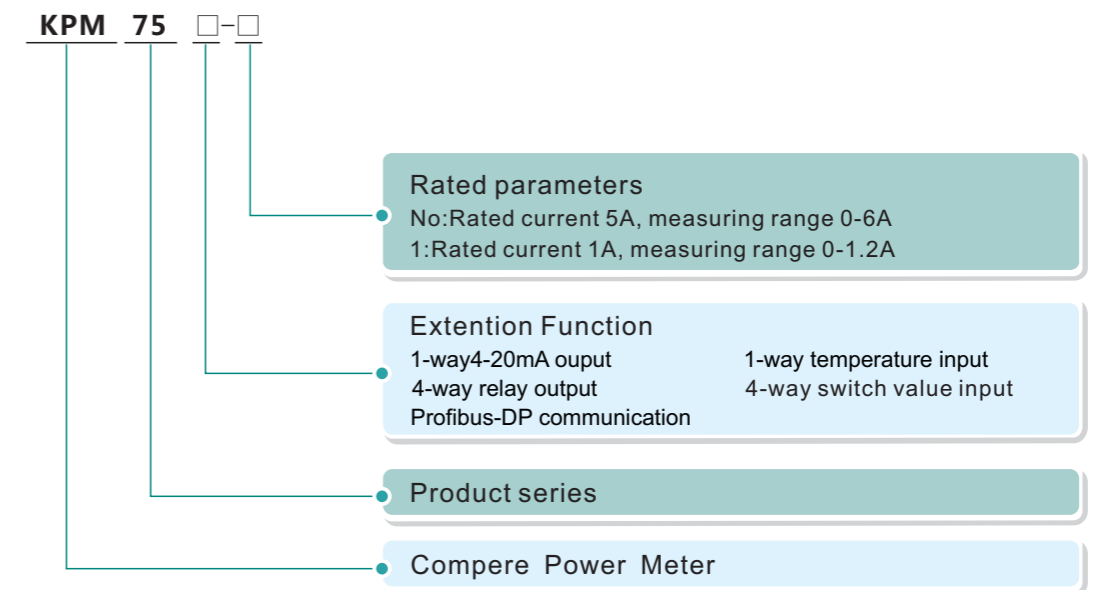


Function features



- 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

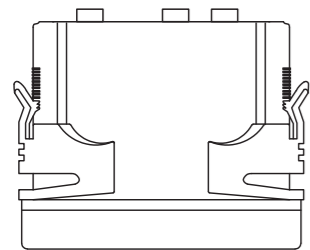
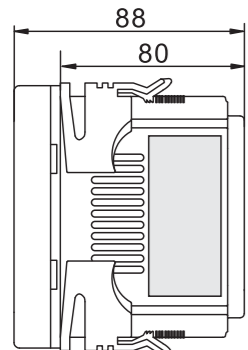
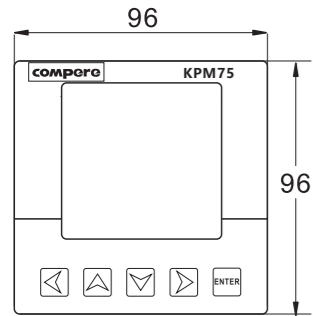


◆ Example: KPM75-1: Rated current 1A, power quality analysis instrument.

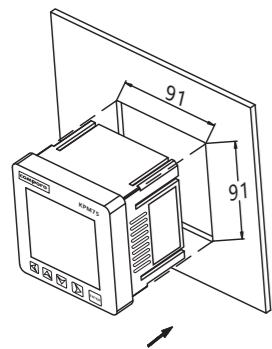
Application occasion

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

Product size Technical Parameters



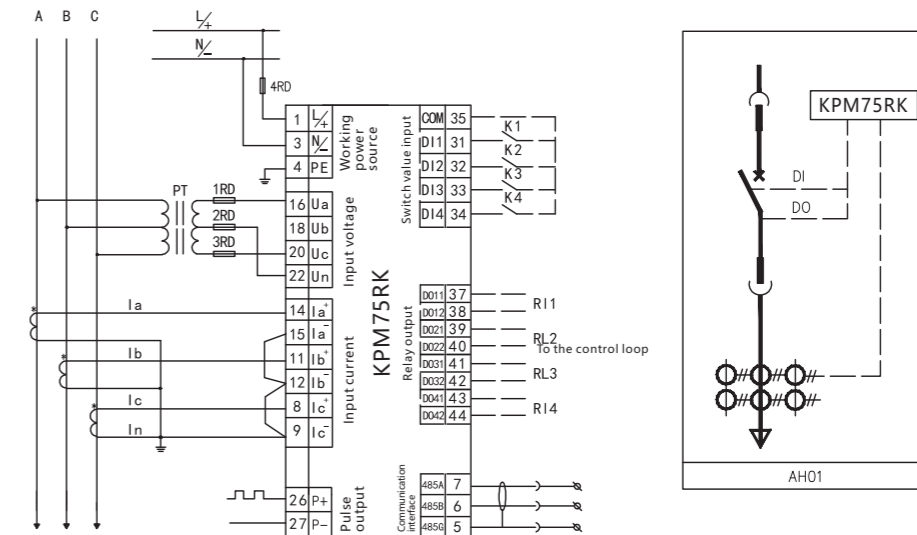
Installation instructions



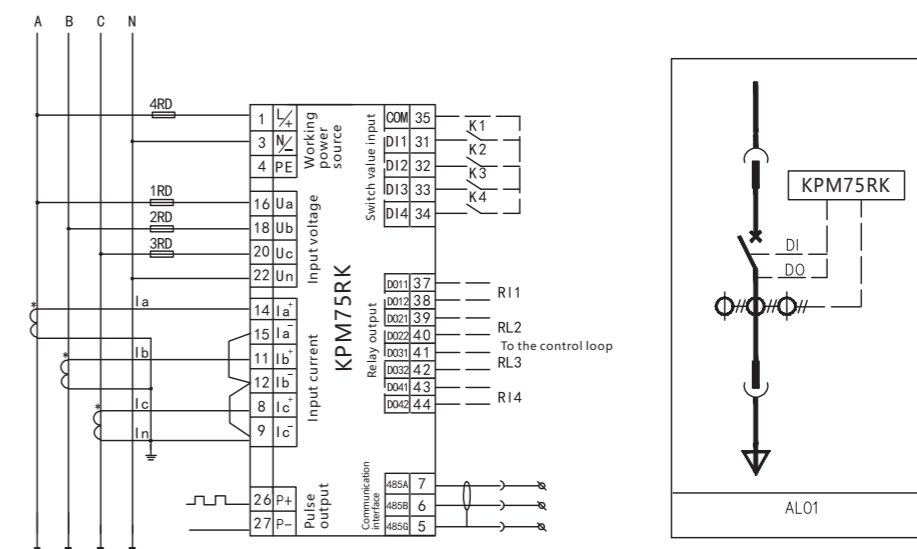
| | | |
|-------------------------------------|---|--|
| Working power source | Operating Voltage | AC 85-265V/DC 80-300V |
| | Rated power consumption | < 3VA |
| Input voltage | Rated voltage | 57.7/100V,220/380V,380/660V |
| | Overvoltage capability | 1.2 times rated voltage allowed, continuous work; 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.