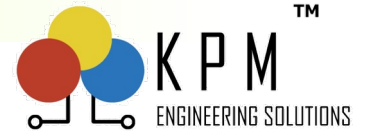


KPM 3 Phase PQ Analyzer (KPM – PQ+)



Specification (Model KPM PQ+)

1. Product component type Handhold poly-phase power meter
2. Phase description
3PH4W 3PH3W 1PH2W (L-N);
1PH2W(L-L);1PH3W(L-L-N)
4. Device application
 - Power analysis
 - Energy meter
5. Input type
 - External Rogowski coil
 - External CT(333mV only)
6. Display 3.5 inch TFT screen display
7. Sampling rate 8k samples per second
8. Harmonic 52th Max
9. Mechanical characteristics
 - Weight 350g
 - Dimension
L*W*D:21.5*10*3.5CM

Real Time Measured Parameters

- Current Per phase, neutral, and average of 3 phases
- Voltage L-L, L-N, and average of 3 phases
- Frequency 45...65 Hz
- Active power Total and per phase (signed)
- Reactive power Total and per phase (signed)
- Apparent power Total and per phase(signed)
- Power factor (True)
 - Total and per phase
 - 0.000 to 1 (signed)

Angle : Voltage angle, Current angle

Current unbalance : Per phase, most unbalanced of 3 phases

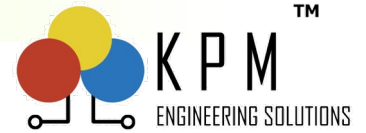
Voltage unbalance: most unbalanced of 3 phases



KPM PQ+
Current & Voltage Inputs

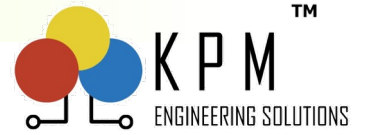


KPM 3 Phase PQ Analyzer (KPM – PQ+)



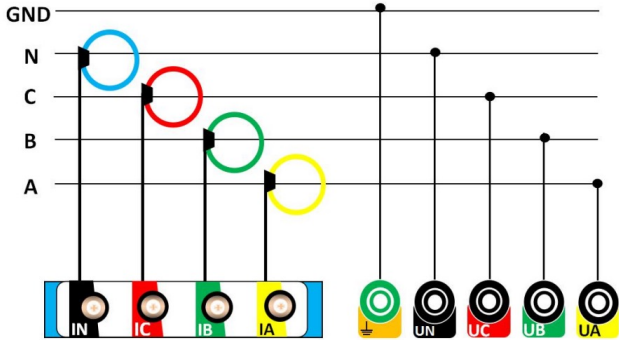
Measurement accuracy	
Rated current (3 level selectable)	600A(0.5% from 6A to 720A) 3000A(0.5% from 10A to 3600A) 6000A(0.5% from 20A to 7200A)
Rogowski coil connect setting	600A MRC-36
	3000A NRC-150 or Y-FCT-510
	6000A NRC-200 or Y-FCT-800
CTs connect setting	Primary setting: from 1A to 999999A
	Secondary setting: from 0.001mV to 707mV
Voltage	0.2% from 5 to 600V
Power factor	±0.005
Active/Apparent Power	IEC62053-22 Class 0.5
Reactive power	IEC62053-21 Class 2
Frequency	0.01% from 45 to 65Hz
Active energy	IEC62053-22 Class 0.5s
Reactive energy	IEC62053-21 Class 2
Input-current characteristics	
Primary current range	600A 0.5A to 720A 3kA 0.5A to 3600A 6kA 0.5A to 7200A
Measurement input range	1/2 ²⁵ mV-707mV
Permissible overload	2V for 10s/hours
Power Supply	
Power	2*2900mAh PANASONIC lithium battery Working time: 10 hours Charging time: 8 hours
	5V DC power supply(included adaptor)
power consumption	
Screen Maximum Brightness	2000mW
Screen Minimum Brightness	1800mW
Wire diameter for terminals	
Current input	BNC connector
Voltage input	Banana plug
DC power supply	DC 5.5*2.1 plug

KPM 3 Phase PQ Analyzer (KPM – PQ+)

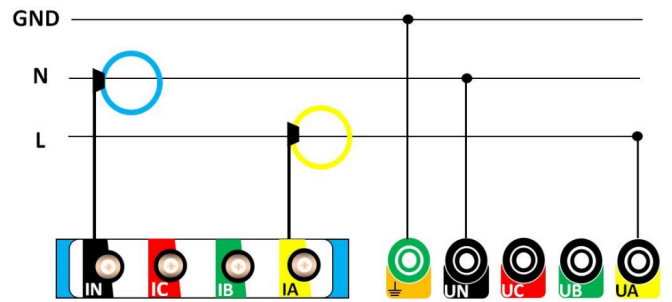


Connection Diagram

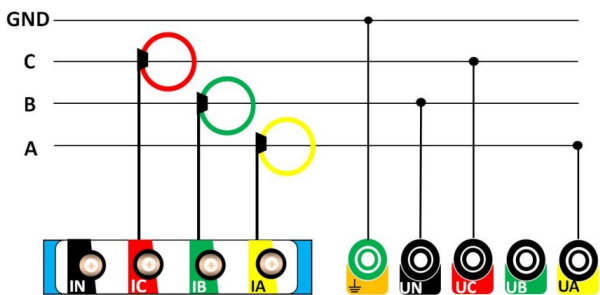
3PH4W



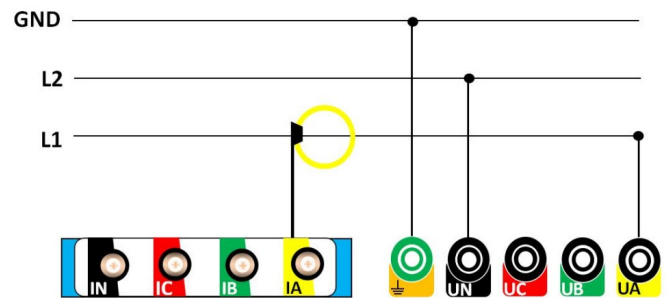
1PH2W L-N



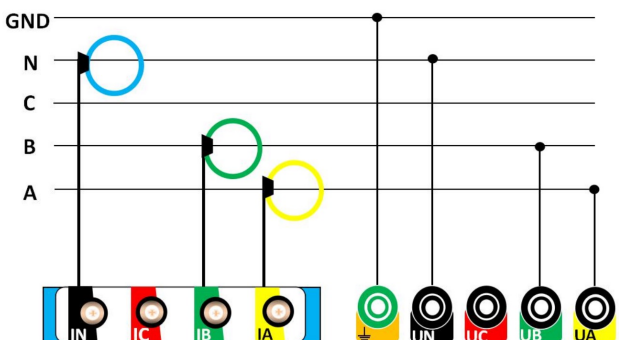
3PH3W



1PH2W L-L



1PH3W L-L-N

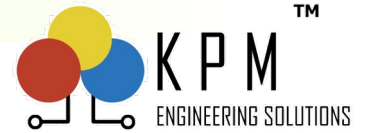


Power,USB DISK,RJ45 port



*All product specifications & pictures are subject to upgrade without prior notification

KPM 3 Phase PQ Analyzer (KPM – PQ+)



Environmental conditions	
Operating temperature	-25°C to +55°C
Storage temperature	-40°C to +85°C
Humidity rating	5 to 95% RH at 50°C(non-condensing)
Pollution degree	2
Overvoltage category	III,for distribution systems up to 277/480VAC
Dielectric withstand	As per IEC61010-1, Doubled insulated front panel display
Altitude	3000m Max
IP degree of protection	IP20 conforming to IEC 60629
Colour	White
Contractual warranty	12months
EMC	
Electrostatic discharge	Level IV(IEC61000-4-2)
Immunity to radiated fields	Level III (IEC61000-4-3)
Immunity to fast transients	Level IV (IEC61000-4-4)
Immunity to surge	Level IV (IEC61000-4-5)
Conducted immunity	Level III (IEC61000-4-6)
Immunity to power frequency magnetic fields	0.5mT (IEC61000-4-8)
Conducted and radiated emissions	Class B (EN55022)
Standard compliance	
EN 62052-11,EN61557-12,EN 62053-21,EN 62053-22,EN 62053-23,EN 50470-1,EN 50470-3, EN 61010-1,EN 61010-2,EN 61010-031	
Characteristics	Description
Reset	
Minimum and maximum values	—
Peak demand values	—
Current demand calculation method	1 to 60 minutes
Power demand calculation method	1 to 60 minutes

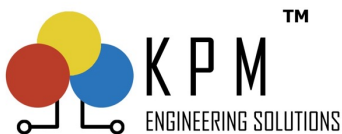
KPM 3 Phase PQ Analyzer (KPM – PQ+)

Record		
Record interval	1s to 9999s (default 1min)	
Record format	csv	
Record capacity	16GB Memory	
	Store about 2.5K Bytes data each time	
	record 12 years (1min interval)	
Record data	'Current Harmonic'file	ITHD(%),IHD2(%),IHD3(%),,,,,,IHD51%(Each phase)
	'Voltage Harmonic'file	UTHD(%),UHD2(%),UHD3(%),,,,,,UHD51%(Each phase)
	'DataSheet' file	Voltage(V);UTHD(%);Current(A);ITHD(%); Frequency(Hz);Power Factor; Current Demand(A); Current Peak Demand(A)&Date; (Each phase and Average)
		Active Power(W);Reactive Power(Var);Apparent Power(Va) Active Energy (Wh); Reactive Energy (Varh); Apparent Energy(Vah) (Each phase and Summary)
		Total Active Power Demand(W) Total Active Power Peak Demand (W)&Date Total Reactive Power Demand (Var) Total Reactive Power Peak Demand (Var)&Date Total Apparent Power Demand (Va) Total Apparent Power Peak Demand (Va)&Date

KPM 3 Phase PQ Analyzer (KPM – PQ+)



Accessories	
Voltage wires	5pcs voltage clamp wires with banana plug (2 meters, 1.5mm ²)
Adaptor	85-265 AC to 5V DC adaptor(default Europe plug)
Remark	Rogowski coil not included
Communication	
Transmission mode	RJ45 port
Communication protocol	MODBUS TCP
Settings	
IP address	Configurable (default 192.168.1.5)
Port No.	502



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