

KPM 3 Phase PQ Analyzer (KPM – PQ Light)

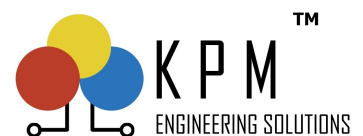
Specification

1. Model KPM PQ Light
2. Product component type Handhold poly-phase power meter
3. 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



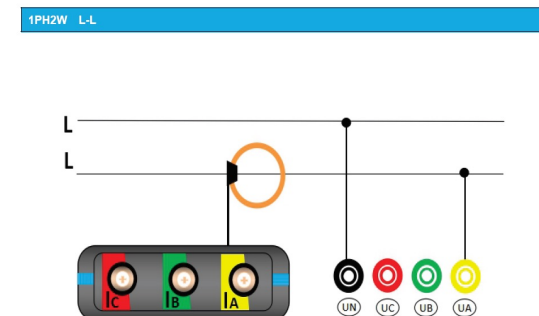
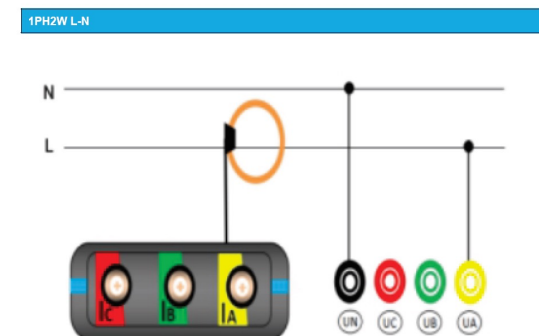
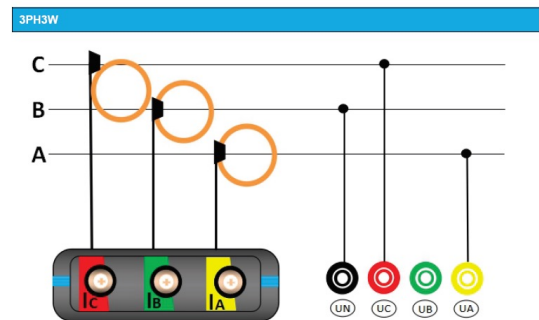
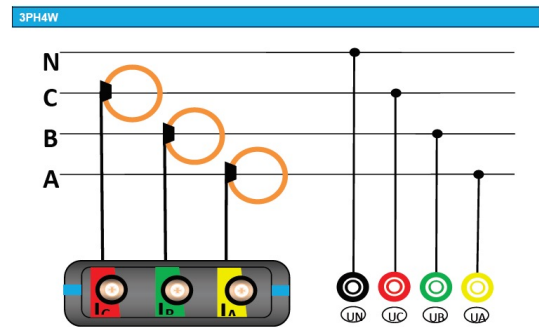
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Minimum/Maximum Values

When any one-second real-time reading reaches its highest or lowest value, the power meter saves the minimum and maximum values in its non volatile memory.

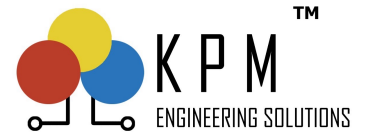
From the power meter display, you can -:

- view all min./max. values since the last reset and the reset date and time.
- reset min./max. values.
- All running min./max. values are arithmetic minimum and maximum values. For example, the minimum phase A-N voltage is the lowest value in the range from 0 to 999.9GV that has occurred since last reset of the min./max. values.
- The power meter provides time stamping for all minimum/maximum values.
- The following table lists the minimum and maximum values stored in the power meter:
 - Current Per phase and average
 - Voltage per phase and average
 - Active power Per phase and total
 - Reactive power Per phase and total
 - Apparent power Per phase and total



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Data Record



The power meter records data to SD card as below -:

Record interval : 1s to 9999s (default 1min)
Record format : csv
Record capacity : Micro SD card 1GB (default)
Store about 1K Bytes data each time
record 2 years (1min & 1GB)

Record data: Date & Time,
Voltage(V), UTHD(%), Current(A), ITHD (%),
ITHD3(%), ITHD5(%), ITHD7(%), ITHD11(%), ITHD13(%),
ITHD3(A), ITHD5(A), ITHD7(A), ITHD11(A), ITHD13(A)
Frequency(Hz), PF(power factor),
Active Power(W), Reactive Power(Var), Apparent Power (Va),
Active Energy (Wh), Reactive Energy (Varh), Apparent Energy(Vah)
Current Demand(A), Current Peak Demand (A) & Date
Total Active Power Demand(W)
Total Active Power Peak Demand (W) & Date
Total Reactive Power Demand (W)
Total Reactive Power Peak Demand (W) & Date
Total Apparent Power Demand (W)
Total Apparent Power Peak Demand (W) & Date

Current input

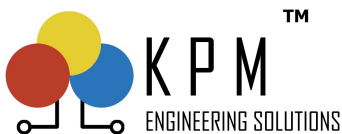


Voltage input



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Measurement accuracy		
Rated current (5 level selectable)	100A(0.5% from 10A to 120A)	
	600A(0.5% from 10A to 720A)	
	1000A(0.5% from 10A to 1200A)	
	3000A(0.5% from 30A to 3600A)	
	6000A(0.5% from 60A to 7200A)	
Rogowski coil connect setting	100A	MRC-16
	600A	MRC-36
	1000A	Y-FCT-200 or Y-FCT-350 or NRC-100
	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 333mV
Voltage	0.2% from 60V to 500V	
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	100A	0.5A to 120A
	600A	0.5A to 720A
	1kA	1A to 1200A
	3kA	3A to 3600A
	6kA	6A to 7200A
Measurement input range	1/2 ²⁵ mV-333mV	
Permissible overload	600mV for 10s/hours	
Power Supply		
Power	4*AA battery(working time: approx. 7hours) USB Type-C	
power consumption		
Screen Backlight On	1100mW	
Screen Backlight Off	900mW	
Wire diameter for terminals		
Current input	BNC connector	
Voltage input	Banana plug	
DC power supply	DC 5.5*2.1 plug	



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