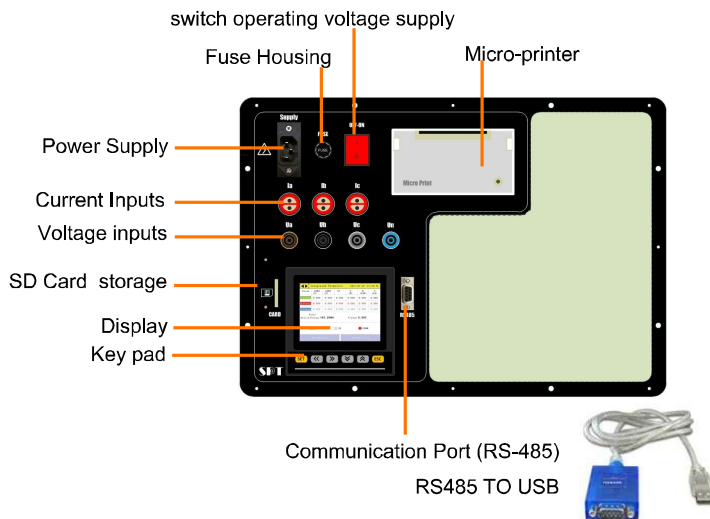


# PA-500A Portable Power Quality Meter

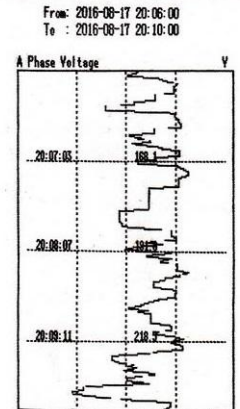
Advanced Metering System  
in a convenient portable package for  
complete power quality monitoring.



## Rail-time Data

Type: Real Data	
Time	2016-08-17 13:40:00
A Phase Voltage	0.00
B Phase Voltage	0.00
C Phase Voltage	0.00
A Phase Ampere	0.00
B Phase Ampere	0.00
C Phase Ampere	0.00
A Phase Active Power	0.00
B Phase Active Power	0.00
C Phase Active Power	0.00
Total Active Power	0.00
A Phase PF	0.00
B Phase PF	0.00
C Phase PF	0.00
Total Phase PF	0.00

## Voltage curve



## Voltage Data

Type: A Phase Voltage	V
Time	Data
2016-08-17 12:00:00	0.00
2016-08-17 12:00:01	0.00
2016-08-17 12:00:02	0.00
2016-08-17 12:00:03	0.00
2016-08-17 12:00:04	0.00
2016-08-17 12:00:05	0.00
2016-08-17 12:00:06	0.00
2016-08-17 12:00:07	0.00
2016-08-17 12:00:08	0.00
2016-08-17 12:00:09	0.00
2016-08-17 12:00:10	0.00
2016-08-17 12:00:11	0.00
2016-08-17 12:00:12	0.00
2016-08-17 12:00:13	0.00
2016-08-17 12:00:14	0.00
2016-08-17 12:00:15	0.00

## Total Active Power Data

Type: Total Active Power	W
Time	Data
2016-08-17 12:00:00	0.00
2016-08-17 12:00:01	0.00
2016-08-17 12:00:02	0.00
2016-08-17 12:00:03	0.00
2016-08-17 12:00:04	0.00
2016-08-17 12:00:05	0.00
2016-08-17 12:00:06	0.00
2016-08-17 12:00:07	0.00
2016-08-17 12:00:08	0.00
2016-08-17 12:00:09	0.00
2016-08-17 12:00:10	0.00
2016-08-17 12:00:11	0.00
2016-08-17 12:00:12	0.00
2016-08-17 12:00:13	0.00
2016-08-17 12:00:14	0.00
2016-08-17 12:00:15	0.00

## Daily Report

Type: Daily	Active power
2016-08	Σ0.00
01: 0:00	17: 0:00
02: 0:00	18: 0:00
03: 0:00	19: 0:00
04: 0:00	20: 0:00
05: 0:00	21: 0:00
06: 0:00	22: 0:00
07: 0:00	23: 0:00
08: 0:00	24: 0:00
09: 0:00	25: 0:00
10: 0:00	26: 0:00
11: 0:00	27: 0:00
12: 0:00	28: 0:00
13: 0:00	29: 0:00
14: 0:00	30: 0:00
15: 0:00	31: 0:00
16: 0:00	
Month Total: 0.00	

## Monthly Report

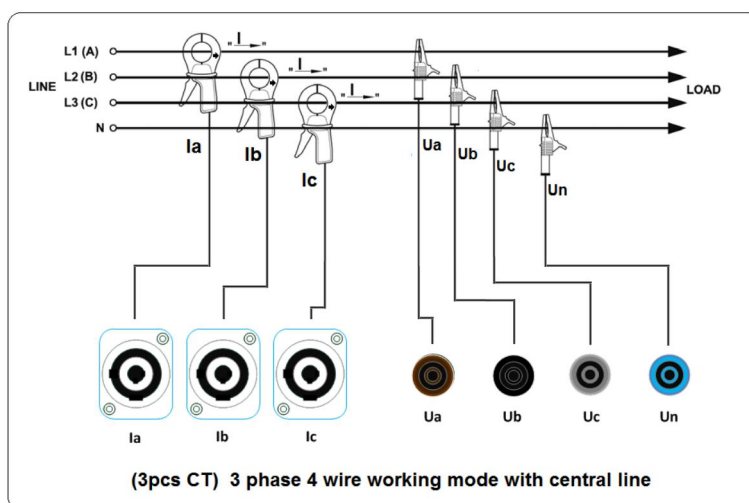
Type: Monthly	Active power
2016	Σ0.00
2016-01: 0.00	
2016-02: 0.00	
2016-03: 0.00	
2016-04: 0.00	
2016-05: 0.00	
2016-06: 0.00	
2016-07: 0.00	
2016-08: 0.00	
2016-09: 0.00	
2016-10: 0.00	
2016-11: 0.00	
2016-12: 0.00	
Year Total: 0.00	

Micro-printer

## Features :

- 320\*340 TFT color LCD display.
- Measure 3 phase voltage , ampere , reactive power ,active power , apparent power , power factor , frequency , Kwh , KvarH ect.
- Three phase voltage , ampere , active power , reactive power , frequency , and other parameters real time record and curve record storage.
- Total active power value and total reactive power value accumulation memory function.
- 8M flash memory inner side of the meter for data storage , support SD card storage , maximum storage is 1GB. The datasheet of the recorder can copy to the SD card automatically .
- With RS485 communication , Modbus RTU.
- Meter can connect with panel Mini-printer , print the historical data by manual and print the real time data and power forms automatically .
- Backup data can be opened by PC software to show the real time curve record.

1 Tool Box	1 pcs
2 Multifunction Power Recorder	1 pcs
3 Split core Current transformer 500A/5	3 pcs
4 Mini-Printer 58mm	1 pcs
5 SD Card 4 GB	1 pcs
6 Cable for voltage measurement	1 Set
7 Dolphin Clip	1 Set
8 Power Cable Plug	1 pcs
9 USB to RS-485/422 Converter	1 Set
10 Data CD (manual ,software for monitoring and Report ,driver )	1 pcs



■ Technical Parameters

Connection	3 phase 3 wire , 3 phase 4 wire
Rated voltage	Linear voltage 450V
Voltage consumption	continuous : 1,2 times instaneous : 2 times/10S
Voltage overload	< 1 VA (each phase)
Voltage Imdepance	≥ 300KΩ
Voltage Accuracy	RMS measurement , Accuracy : 0.5% F.S
Rated Ampere	3*5(6)A
Current overload	Continuous : 1.2 times , Instaneous : 10 times/10s
Current consumption	< 0.4 VA (each parameter) Current impedance <20mΩ
Current Accuracy	RMS measurement , Accuracy : 0.5% F.S
Frequency	45 ~60Hz、 Accuracy: 0.1Hz
Energy	Active power accuracy: 1% F.S , Reactive power accuracy : 2% F.S
Power	Active power/Reactive power/Apparent power accuracy : 0.1%F.S
Display	Programmable setting , shift , 320*240 TFT color LCD display
Power supply	AC/DC 100~240V Power consumption ≤8VA
Output digit interface	RS485 Modbus RTU protocol , print output port RS232
Working/Storage Environment	Working environment:-10℃~+50℃, Temperature <85%RH No frost Storage:-20℃~+55℃, Temperature<75%RH No frost
Anti-jamming	Electrostatic interference resistance ability : IEC61000-4-2, Level 2 Radiation anti-jamming capacity: IEC61000-4-3, Level 3 Fast transient pulse interface: IEC61000-4-4, Level 4 Surge immunity (1, 2/50us-8/20us) : IEC61000-4-5, Level 4
Isolation&puncture	Input signal and power 2000V AC , Input and output 2000V AC , power and transformed analog output 2000V DC RS485 communication , each isolated voltage or I/O 600V DC
Insulation	Input/output/power supply to meter cover>5MΩ
Dimension(mm)	320W×160H×410L mm

■ Measure & Record Interface Operation

Integrated Parameters Interface

Param	VRMS (V)	ARMS (A)	PF	P (W)	Q (VAR)	S (VA)
A Phase	0.000	0.000	0.000	0.000	0.000	0.000
B Phase	0.000	0.000	0.000	0.000	0.000	0.000
C Phase	0.000	0.000	0.000	0.000	0.000	0.000
Total		Active Energy 0.0KWH		Freque 0.0HZ		
S1		S2		COMM		
AL1 No LOLOr			AL2 No Alarm			

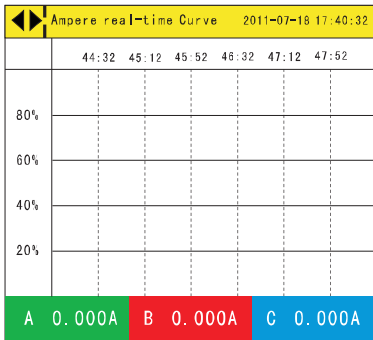
Power Display Interface

	P (W)	Q (VAR)	S (VA)
A	0.000	0.000	0.000
B	0.000	0.000	0.000
C	0.000	0.000	0.000

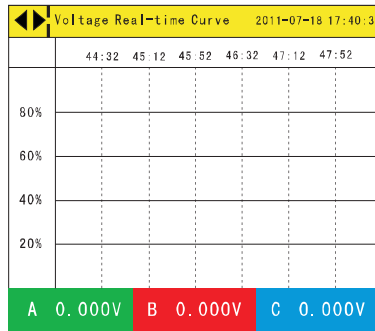
Voltage , Ampere , Power Factor Interface

	P (W)	Q (VAR)	S (VA)
A	0.0	0.000	0.000
B	0.0	0.000	0.000
C	0.0	0.000	0.000

Ampere Real Time Curve



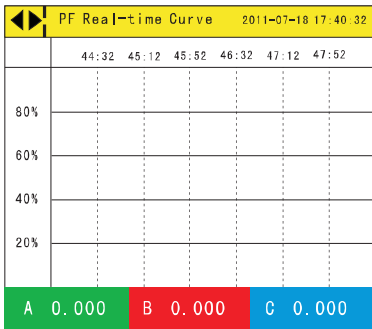
Voltage Real Time curve



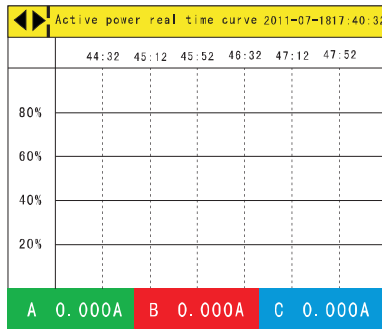
Total 3 phase Parameters Interface

Total Active Energy	0.000	KWH
Total Reactive Energy	0.000	KAVRH
Total Active Power	0.000	W
Total Reactive Power	0.000	VAR
Total Power Factor	0.000	

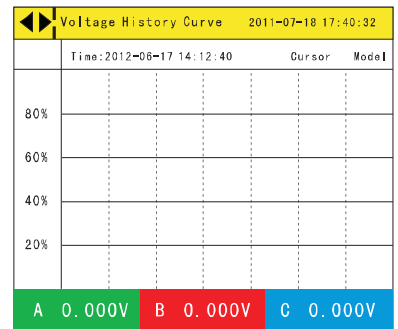
Power Factor Real Time Curve



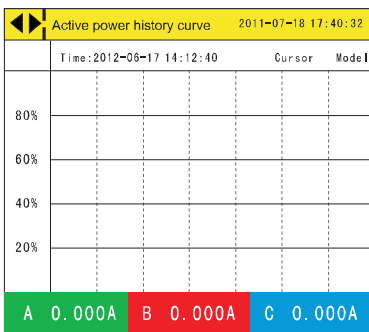
Active Power Factor Real Time Curve



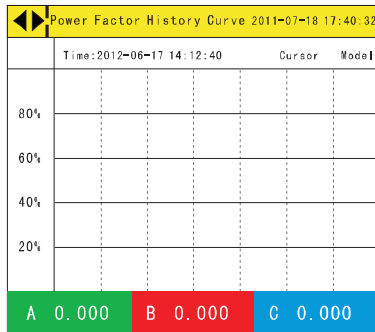
Voltage History Curve



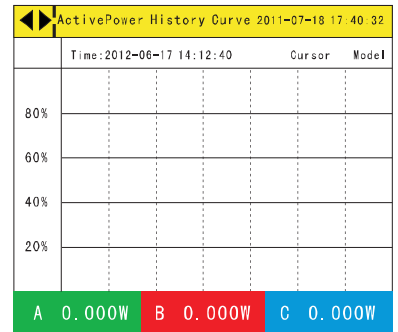
Active Power History Curve



Power Factor History Curve



Ampere History Curve



Return to integrated Parameters