



## Product list

- Universal Test Equipment
- Time-frequency Test Equipment
- Other Products
- Power Supplies
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[Power Quality Analyzer >> SA2100 Power Quality Analyzer](#)


【Pr Name】 SA2100 Power Quality Analyzer

【Class】 Power Quality Analyzer

[Product Readme](#)

## Features

- Safety: CAT III 1000V / CAT IV 600V
- Standards: IEC61000-4-30 (2008) S class, EN50160 (2007)
- Easy operation to capture the power quality problem
- Single-phase 2 W/Single-phase 3 W/ 3-phase 3 W/ 3-phase 4 W
- Display: Run Chart, Bar Chart, Vector Graphic, Waveform, Event List, Readings.
- 8G Memory Card to make the long-term measuring data storage
- Support USB port to connect to PC and analyze the data/screen shots copied by U-disk
- Support LAN port to make the remote control available, transfer the measuring data

## Specifications

	Measurement Range	Resolution	Accuracy
<b>Voltage/Current/Frequency</b>			
Channel	3-phase line input + 1 neutral line input		
Vrms(dc+ac)	1 ~ 1000Vrms	0.1Vrms	±5%
Vpk	1 ~ 1400Vpk	0.1Vpk	±5%
V(CF)	1.0 ~ >2.8	0.01	±5%
Arms	1~ 3000A	1A	±1% ± 5digits
	1~ 300A	0.1A	±1% ± 5digits
Apk	1 ~ 4000Apk	1A	±1% ± 5digits
A(CF)	1 ~ 10	0.01	±5%
Frequency	42.5~57.5Hz(50Hz nominal)	0.01Hz	±0.01%
	51~69Hz(60Hz nominal)	0.01Hz	±0.01%
<b>Dips &amp; Swells</b>			
Vrms1/2	0 ~ 200% of nominal voltage	0.1Vrms	±1%
Arms1/2	1 ~ 3000A	1A	±1% ±5 counts
	1 ~ 300A	0.1A	±1% ±5 counts
Threshold levels	Programmable thresholds in percent of nominal voltage Event detection based upon ½ cycle rms voltages Captures Dips, Swells Interruptions and Rapid Voltage Changes		
Duration	hhh,mm,ss,mmm	0.5 cycle	1 cycle
<b>Harmonic</b>			
Harmonic Order	1 ~ 50		
Inter-Harmonic Order	1 ~ 49		

Voltage	0.0 ~ 100.0%	0.1%	±0.1% ± nx0.1%
Current	0.0 ~ 100.0%	0.1%	±0.1% ± nx0.1%
THD	0.0 ~ 100.0%	0.1%	±2.5%
DC Relative	0.0 ~ 100.0%	0.1%	±2%
Frequency	0 ~ 3500Hz	1Hz	1Hz
Phase	-360° ~ 0°	1°	± nx1.5°
<b>Power And Energy</b>			
Active Power/Apparent Power/Reactive Power	1.0 ~ 20.00MW	0.1kW	±1.5±10 counts
Energy	0.00kWh ~ 200GWh	10Wh	±1.5±10 counts
Power Factor	0 ~ 1	0.01	±0.03
<b>Flicker</b>			
Pst(1min),Pst,Plt,PF5	0.00 ~ 20.00	0.01	±5%
<b>Unbalance</b>			
Voltage	0.0 ~ 5.0%	0.1%	±0.5%
Current	0.0 ~ 20.0%	0.1%	±1%
Voltage Phase Angle	-360° ~ 0°	1°	±2digits
Current Phase Angle	-360° ~ 0°	1°	±5digits
<b>Voltage Transient</b>			
Vpk	±6000Vpk	1V	±15%
Vrms	10 ~ 1000Vrms	1V	±2.5%
Min. Tested Time	50us		
Sampling Rate	20kS/s		
<b>Inrush Current</b>			
Arms(AC+DC)	0~3000Arms	0.1	±1% ± 5digits
Inrush Duration	6s ~ 32min selectable	10ms	±20ms
<b>Logger</b>			
Recording	Parameter, duration time and time interval can be set by user, which can be export on PC		
Memory	8G		
Max. recording time	1 year		
<b>System Monitor</b>			
Parameters	Vrms,Arms,Harmonic Volts,THD Volts,Plt,Vrms 1/2,Arms 1/2,Vneg,HZ,dips and swells, unbalance		
Record Time	2h ~ 7days		
Record Event Number	>10000		
Limits	According EN50160 or customer definable		
<b>General Characteristics</b>			
Power	AC220V(1±10%), 50Hz(1±5%), ≤10VA		
Interface	USB_HOST, LAN		
Display	5.6" TFT LCD, 320*240		
Battery	7.4V, 4.4Ah, > 7 hours working time		
Dimension & Weight	262×173×66mm, 1.6kg		

#### ▲ Application software

#### ▲ Accessories

Voltage Test Leads	3 meter long x 5
Alligator Clips	5
External DC Adaptor	1 pcs
Software CD, Users Manual	1 x each
Flexi CT Clamps	300A / 3000 A x 4

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