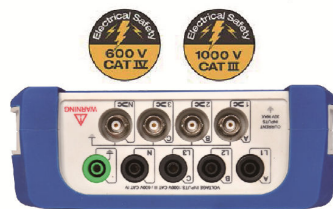




Isolated Interface to ensure safe operation



SA2100 Specification

• Measurement

Measurement		Measurement Range	Resolution	Accuracy
Voltage/Current/Frequency				
Vrms(AC+DC)		1 ~ 1000Vrms	0.1Vrms	±0.5% of nominal voltage
Vpk		1 ~ 1400Vpk	0.1Vpk	±0.5% of nominal voltage
V(Crest Factor)		1.0 ~ >2.8	0.01	±5%
Arms (AC)	10mV/A	0~100A	0.1A	±0.5%±0.2A
	1mV/A	1~1000A	0.1A	±0.5%±0.2A
	50mV(65mV)/1000A	15~5000A	1A	±1%±2A
A(Crest Factor)		1 ~ 10	0.01	±5%
Frequency		42.5~57.5(50Hz nominal)	0.01Hz	±0.01Hz
		51~69(60Hz nominal)	0.01Hz	±0.01Hz
		385~414(400Hz nominal)	0.01Hz	±0.1Hz
Dips & Swells				
Vrms1/2		0 ~ 200% of nominal voltage	0.1Vrms	±1%
Arms1/2		1 ~ 3000A	1A	±1% ±2A
Duration		hour-minute-second-microsecond	0.5 cycle	1 cycle
Harmonic (IEC61000-4-7)				
Harmonic Number		1 ~ 50		
Harmonic Voltage %f		0.0 ~ 100.0%	0.1%	±0.1% ± nx0.1%
Harmonic Current %f		0.0 ~ 100.0%	0.1%	±0.1% ± nx0.1%
THD		0.0 ~ 100.0%	0.1%	±2.5%
Phase		-360° ~ 0°	1°	± nx1.5°
Power and Energy				
Active Power/Apparent Power/Reactive Power		1.0 ~ 20.00MW	0.1kW	±1.5±10 digits
KWh		0.00kWh ~ 200GWh	10Wh	±1.5±10 digits
Power Factor		0 ~ 1	0.01	±0.03
Flicker (IEC61000-4-15)				
Pst(1min),Pst,Plt,PF5		0.00 ~ 20.00	0.01	±5%
Unbalance				
Voltage		0.0 ~ 5.0%	0.1%	±0.5%
Current		0.0 ~ 20.0%	0.1%	±1%
Voltage Phase		-360° ~ 0°	1°	±2 digits
Current Phase		-360° ~ 0°	1°	±5 digits
Voltage Transient				
Vpk		±6000Vpk	1V	±15%
Vrms		10 ~ 1000Vrms	1V	±2.5%
Min. Test Time		50us		
Inrush Current				
Arms		0~3000Arms	0.1	±1% ± 5 digits
Inrush Duration		6s ~ 32min selectable	10ms	±20ms
Logger				
Recording		user-defined parameters for 4 phases at the same time		
Memory		Data stored in Micro SD card, 8GB		
Duration Time		2 hrs to 1 year, depends on the recording items and time interval		
Interval		1s to 60 minutes		
Monitor				
Support EN50160 in default or user-defined standard				