



## Power Quality Analyzer

### OHPQ2108

- Measurement and analysis of power system quality; measured parameters: voltage, current, frequency, crest factor, dip and swell, power and energy, imbalance, harmonic, interruption.
- Monitoring of Vrms, Arms, harmonics, dip, swell, imbalance, interruption, for time duration of 2 hours to 7 days.
- 8 GB memory card.

Model		OHPQ2108			
Voltage Input	Input Channels	4 (3 phase + neutral) DC coupling			
	Max. Input Voltage	1000 Vrms			
	Range of nominal voltage	50 to 500 V			
	Max pulse peak voltage	6 kV			
	Bandwidth	>3 kHz			
	Input Impedance	4 M $\Omega$ / 5 pF			
Current Input	Numbers of Input	4 (3 phase + neutral) DC coupling			
	Type	Clamp Current Sensor with mV output			
	Input Range	1 to 3000 Arms with supplied current clamp			
	Input Impedance	50 k $\Omega$			
	Bandwidth	>3 kHz			
Sampling System	Resolution	8 channels 16 bits AD			
	Sampling Rate	20 kS/s for each channel, 8 channels sample synchronously			
	RMS Sampling	5000 points for 10 / 12 cycles (according to IEC 61000-4-30)			
	PI Sync	4096 points for 10 / 12 cycles (according to IEC 61000-4-7)			
Measurement		Measurement Range	Resolution	Accuracy	
Voltage/Current/ Frequency	Vrms (AC+DC)	1 ~ 1000 Vrms	0.1 Vrms	$\pm 0.5\%$ of nominal voltage	
	Vpk	1 ~ 1400 Vpk	0.1 Vpk	$\pm 0.5\%$ of nominal voltage	
	V (Crest Factor)	1.0 ~ >2.8	0.01	$\pm 5\%$	
	Arms (AC)	1 ~ 1000 A/3000 A/SOOOA	1 A	$\pm 1\% \pm 2$ A	
		1 ~ 100 A	0.1 A	$\pm 1\% \pm 0.2$ A	
	Apk	1 ~ 4000 Apk	1 A	$\pm 1\% \pm 2$ A	
	A (Crest Factor)	1 ~ 10	0.01	$\pm 5\%$	
	Frequency	42.5 ~ 57.5 Hz (50 Hz nominal)	0.0 1 Hz	$\pm 0.01$ Hz	
51 ~ 69 Hz (60 Hz nominal)		0.0 1 Hz	$\pm 0.01$ Hz		
Dips & Swells	Vrms1/2	0 ~ 200% of nominal voltage	0.1 Vrms	$\pm 1\%$	
	Arms1/2	1 ~ 3000 A	1 A	$\pm 1\% \pm 2$ A	
	Threshold levels	Threshold is settable according to nominal voltage percentage detectable events type: Dips, Swells, Interruption, Voltage Rapid Change			
	Duration	Hour - minute - second - microsecond	0.5 period	1 period	
Harmonic	Harmonic Number	1 ~ 50			
	Harmonic Voltage	0.0 ~ 100.0%	0.10%	$\pm 0.1\% \pm nx0.1\%$	
	Harmonic Current	0.0 ~ 100.0%	0.10%	$\pm 0.1\% \pm nx0.1\%$	
	THO	0.0 ~ 100.0%	0.10%	$\pm 2.5\%$	
	DC Relative	0.0 ~ 100.0%	0.10%	$\pm 0.2\%$	
	Frequency	0 ~ 3500 Hz	1 Hz	1 Hz	
	Phase	-360 ° ~ 0 °	1 °	$\pm nx1.5$ °	
Power and Energy	Active Power/Apparent Power/Reactive Power	1.0 ~ 20.00 MW	0.1 kW	$\pm 1.5 \pm 10$ digits	
	Energy	0.00 kWh ~ 200 GWh	10 Wh	$\pm 1.5 \pm 10$ digits	
	Power Factor	0 ~ 1	0.01	$\pm 0.03$	
Unbalance	Voltage	0.0 ~ 5.0%	0.10%	$\pm 0.5\%$	
	Current	0.0 ~ 20.0%	0.10%	$\pm 1\%$	
	Voltage Phase	-360 ° ~ 0 °	1 °	$\pm 2$ digits	
	Current Phase	-360 ° ~ 0 °	1 °	$\pm 5$ digits	
	Vrms	10 ~ 1000 Vrms	1 V	$\pm 2.2\%$	
	Min. Test Time	Sous			
	Sampling Rate	20 kS/s			
Logger	Recording	User-defined parameters for 4 phases at the same time			
	Memory	Data stored in TF card, 8GB			
	Duration Time	2 hrs to 1 year			
	Interval	1 s to 1 hrs			

<b>Wire Combinations</b>	1Ø + NEUTRAL	Single phase with neutral
	1Ø SPLIT PHASE	Split phase
	1Ø IT NO NEUTRAL	Single phase system with two phase voltages without neutral
	3Ø WYE	3-phase 4-wire system, Y type
	3Ø DELTA	3-phase 3-wire system delta (Delta)
	3Ø IT	3-phase Y type without neutral
	3Ø HIGH LEG	4-wire 3-phase delta system (Delta) with center tapped high leg
	3Ø OPEN LEG	Open-delta (Delta)3-wire system with two transformer windings
	2-ELEMENT	3-phase 3-wire system without current sensor on phase L2 / B (2 Watt meter method)
2 1/2-ELEMENT	3-phase 4-wire system without voltage sensor on phase L2 / B	
<b>General Characteristics</b>		
<b>Display</b>	Screen	Color TFT LCD
	Size	5.6-inch
	Resolution	320 x 240
	Brightness	Adjustable
<b>Housing</b>	Protection	Protection shield, strong
	IP	IP51, accords IEC60529
<b>Interface</b>	USB Host	Download file to PC by U disk for analyze with PC software
	LAN	For remote control of the Analyzer and measurement data transmission.
<b>Memory</b>	Flash Memory	128 MB
	TF Card	Standard 8G
<b>Mechanical</b>	Dimension	262 x 173 x 66 mm
	Weight	1.6 kg
<b>Environment</b>	Working temperature	0 °C ~ 40 °C
	Storage temperature	-20 °C ~ 60 °C
	Humidity	90% relative humidity
<b>Power</b>	Adapter input	90 ~ 264 V
	Adapter output	9 V 2.2 A
	Battery	Rechargeable NI-MH 7.2 V 3.8 Ah
	Battery Working Time	>7 hours
	Battery Charge Time	4 hours
<b>Standard</b>	Measurement Method	IEC61000-4-30 Class-S
	Measurement Performance	IEC61000-4-30 Class-S
	Power Quality Monitoring	EN50160
	Flicker	IEC61000-4-15
	Harmonic	IEC61000-4-7
<b>Electrical Safety</b>	Comply with	IEC61010-1, Safety Degree: 600 V CAT IV 1000 V CAT III
	Max. voltage at Voltage Input	600 V CAT IV 1000 V CAT III
	Max. voltage at Current Input	30 V