APS- Power Quality Analyser

Testing Frequency Up To 1000hz For 3-phase/4-wire System



ABOUT PRODUCT

The APS – Power Quality Analyser is an easy-to-use power quality tool for the maintaining and troubleshooting three phase power. The three phase power quality meters helps to locate, predict, prevent and troubleshoot problems in power distribution systems. The meter offers a full range of troubleshooting features for preventing and analysing power quality problems.

PRODUCT PERFORMANCE

APS – Power Quality Analyser provides smart measurement and analysis for 3-phase/4-wire systems. The APS analyser is compatible with EN50160 with testing frequency up to 1000Hz.

LCD: 5.7'' 640 x 480 TFT touch screen Input Impedance: $>2M\Omega$, 20pF Measurement Range: Vrms $10\sim 1000$ V Current: 5A, 10A, 100A, 1000A, 1500A and 3000A (with customized current clamps) Frequency: 30Hz ~ 1000 Hz Harmonic Measurement: $1\sim 50$ th 2 Inrush Current: 2000A Peak Voltage: 1000V Internal Memory: 16MB External Memory: 4GB Communication Port: USB N.W.(main unit): 1.2 kg Battery: 14.4V 1000MAh Durable for 100MC hours after full charge

MAIN FEATURES

- Portable design
- Colour touch screen
- Up to 50 times harmonic testing with frequency spectrum graph.
- Power testing: 3-phase apparent power, active power, reactive power, power factor, and 3-phase electric power.
- 3-phase unbalance testing with vivid chart
- Records at least 40 times of surge current
- Testing for wave motion, short-time flicker and long-time flicker
- Records up to 40 times of sag and swell
- Extended recording ability for basic (stable) power quality parameters.
- Recording time intervals: adjustable between 1 second and 30 minutes.
- Digital oscilloscope- checks waveform for voltage and current signal
- With Data View software for convenient analysing of testing results
- Compliant with EN 50160 Standard





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TECHNICAL SPECIFICATIONS

Specifications	Range	Accuracy
	Voltage: 10~700V (true rms)	
	Current: 0.5~3000A (true rms, with relevant CT)	Voltage: ±0.2%
	Neutral current: 0.5~25A (true rms)	Current: ±0.5%
Voltage, Current	Current peak: 0-3000A	Frequency: ±0.01Hz
& Frequency	Voltage peak: 0-1000V	
	Crest factor: 0-10	NOTE: Take L1 frequency as total
	Frequency: 30~1000Hz	measurement frequency.
Harmonics	Voltage: Total harmonic +1~50th	Voltage: ±0.2(%f)
	Current: Total harmonic +1~50th	Current: ±0.2(%f)
	K-factor: 0-10	±0.5%
Harmonic Power	Total harmonic: +1~30th	±0.5%
	Total active harmonic power: ΣΡ	
	Total reactive harmonic power: ΣQ	
	Total positive active harmonic power: +ΣP	
nai monic rowei		
	Total negative active harmonic power: -ΣP	
	Total positive reactive harmonic power: +ΣQ	
	Total negative reactive harmonic power: -ΣQ	
Inter-harmonics	Voltage: total inter-harmonic +1~20th	Voltage: ±0.2(%r)
	Current: total inter-harmonic +1~20th	Current: ±0.2(%r)
	Active power: 0.05~700KW	Active power: ±0.5%
	Apparent power: 0.05~700KVA	Apparent power: ±0.5%
	Reactive power: 0.05~700KVAR	Reactive power:±1%
Power & Energy	Power factor: 0.00~1.00	Power factor: ±0.005
one a small gy	Active energy: 0.01~10000kWh	Active energy: ±0.5%
	Apparent energy: 0.01~10000kVAh	Apparent energy: ±0.5%
	Reactive energy: 0.01~10000kVARh	Reactive energy: ±1%
	Average power factor: 0.00~1.00	Average power factor: ±0.005
	Fundamental voltage: 10~700V (true rms)	Voltage: ±0.5%
	Fundamental current: 0.5~1000A (True rms)	Current: ±0.5%
	Fundamental frequency: 40~70Hz	Frequency: ±0.01Hz
Unbalance	Phase angle: 0~360o	Phase angle: ±0.3 o
	Unbalance: 0.0%~100%	Voltage unbalance: ±0.2%
		NOTE: Take L1 frequency as total
		measurement frequency.
	Data logging for: 3 phase voltage, current, null	Time interval: 1s~30min adjustable
	current, voltage harmonic (THD and 1~25	Time duration: <960 hours
Data Recording	harmonics), current harmonics (THD and 1~25	
	harmonics), unbalance, KW, KVA, KVAR, PF, flicker	
	and fluctuation	
Sags(Dips)/Swells	Voltage sag, voltage swells and instant interruption	Maximal event recorded: 40 times
	Event characteristics listed: Start time, ending time,	Time:±10ms
	duration time(≥20ms) and voltage magnitude(rms1/2)	Time.±10m3
Eluctuation	Voltage fluctuation:0.1%~10.0%	≤±5%
Fluctuation Flicker	1min flicker, short-time(10min) and long-time(2h) flicker	
	imin nicker, short-time(ionin) and long-time(2n) nicker	1 minute short-time: ≤±5.5%
		10 minutes short time: ≤±5%
		2 hours long-time: ≤±5%
Inrush	Inrush Current, Inrush duration, Arms ½, Expected	±10ms
	Time, Max. Amp, Min. Amp, Threshold Amp	
Transient	Voltage transient based on 120% above of nominal	Capture rate: 98.7%
	voltage	Minimal detect duration: 20μs
	Measure active power, reactive power, and apparent	Semi-wave power reading±0.5%
Power wave	power semi-wave and power tendency of 1 min, 3	
	min and 5 min.	
Constant	2 phase valles at Austra august will valle as and will	Max sampling frequency: 200KHz
Scope	3-phase voltage, 4-wire current, null voltage and null	Wax sampling frequency. 200KHZ



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ORDER INFORMATION

Configuration	Code
APS- Power Quality Analyser Kits	
APS- Power Quality Analyser with set of 4 color-coded C-5A current clamp and testing leads	Con. #3561.5A
APS- Power Quality Analyser with set of 4 color-coded CC-10A current clamp and testing leads	Con. #3561.10A
APS- Power Quality Analyser with set of 4 color-coded CC-20A current clamp and testing leads	Con. #3561.20A
APS- Power Quality Analyser with set of 4 color-coded CC-100A current clamp and testing leads	Con. #3561.100A
APS- Power Quality Analyser with set of 4 color-coded CC-500A current clamp and testing leads	Con. #3561.500A
APS- Power Quality Analyser with set of 4 color-coded CC-800A current clamp and testing leads	Con. #3561.800A
APS- Power Quality Analyser with set of 4 color-coded CC-1000A current clamp and testing leads	Con. #3561.1000A
APS- Power Quality Analyser with set of 4 color-coded AmFlex-1500A current clamp and testing leads	Con. #3561.1500A
APS- Power Quality Analyser with set of 4 color-coded AmFlex-3000A current clamp and testing leads	Con. #3561.3000A

Optional Current Clamps









