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 & Frequency	Current peak: 0-3000A	Frequency: ±0.01Hz
	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: ΣP	
	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 margy	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)	
Fluctuation	Voltage fluctuation: 0.1%~10.0%	≤±5%
Fluctuation 1mir	1min flicker, short-time(10min) and long-time(2h) flicker	1 minute short-time: ≤±5.5%
	iminificati, short-time(ionini) and long-time(21) mover	10 minutes short time: ≤±5%
	lamed Compat lamed donation Ames 1/ Forested	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
Powerwave	Measure active power, reactive power, and apparent	Semi-wave power reading±0.5%
	power semi-wave and power tendency of 1 min, 3	
	min and 5 min.	
Constant	3-phase voltage, 4-wire current, null voltage and null	Max sampling frequency: 200KHz
Scope		



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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









