

PQA-3561 Power Quality Analyzer



- ◆ Smart measurement and analysis for 3-phase/4-wire system
- ◆ Compatible with EN50160 with testing frequency up to 1000Hz

Why Kongter?

An Easy-to-use power quality tools is a "must-have" for any person who maintains or troubleshoots three phase power. Kongter three-phase power quality meters help you locate, predict, prevent and troubleshoot problems in power distribution systems. We offer a full range of trouble-shooters for the prevention and analyzing of the power quality problem. It is not only your problem solver, but also money saver.

Optional Current Clamps

Measurement range: 0-100A
Conductor Size: 22mm (0.85")



CC-500A
Measurement range: 0-500A
Conductor Size: 48mm (1.85")



Measurement range: 0-1000A
Conductor Size: 60mm (2.39")



AmFlex-3000A
Measurement range: 0-3000A
Conductor Size: 300mm(11.96")



Features

- ◆ Portable design and colorful touch screen
- ◆ Applied to standard of EN 50160
- ◆ Could test 3-phase volt, null line volt, 3-phase current, null line current, etc.
- ◆ 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
- ◆ Record at least 40 times of surge current
- ◆ Testing for wave motion, short-time flicker and long-time flicker
- ◆ Record up to 40 times of sag and swell
- ◆ Could have long-time record for basic (stable) power quality parameter. Recording time interval adjustable between 1 second and 30 minutes.
- ◆ Digital oscilloscope, checking waveform for voltage and current signal
- ◆ With Kongter Data View software for convenient analyzing of testing result

Technical Parameter

- ◆ LCD: 5.7" 640 x 480 TFT touch screen
- ◆ Input Impedance: >2MΩ, 20pF
- ◆ Measurement Range: Vrms 10~1000V
- ◆ Current: 5A, 10A, 100A, 1000A, 1500A and 3000A
(with customized current clamps)
- ◆ Frequency: 30Hz~1000Hz
- ◆ Harmonic Measurement: 1~50th
- ◆ 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 2000mAh

Durable for 5 hours after full charge

Technical Specification

Specifications	Range	Accuracy
Voltage, Current & Frequency	Voltage: 10~700V (true rms) Current: 0.5~3000A (true rms, with relevant CT) Neutral current: 0.5~25A (true rms) Current peak: 0-3000A Voltage peak: 0-1000V Crest factor: 0-10 Frequency: 30~1000Hz	Voltage: $\pm 0.2\%$ Current: $\pm 0.5\%$ Frequency: $\pm 0.01\text{Hz}$ NOTE: Take L1 frequency as total measurement frequency.
Harmonics	Voltage: Total harmonic +1~50th Current: Total harmonic +1~50th K-factor: 0-10	Voltage: $\pm 0.2(\%r)$ Current: $\pm 0.2(\%r)$ $\pm 0.5\%$
Harmonic Power	Total harmonic: +1~30 th Total active harmonic power: $\sum P$ Total reactive harmonic power: $\sum Q$ Total positive active harmonic power: $+\sum P$ Total negative active harmonic power: $-\sum P$ Total positive reactive harmonic power: $+\sum Q$ Total negative reactive harmonic power: $-\sum Q$	$\pm 0.5\%$
Inter-harmonics	Voltage: total inter-harmonic +1~20th Current: total inter-harmonic +1~20th	Voltage: $\pm 0.2(\%r)$ Current: $\pm 0.2(\%r)$
Power & Energy	Active power: 0.05~700KW Apparent power: 0.05~700KVA Reactive power: 0.05~700KVAR Power factor: 0.00~1.00 Active energy: 0.01~10000kWh Apparent energy: 0.01~10000kVAh Reactive energy: 0.01~10000kVARh Average power factor: 0.00~1.00	Active power: $\pm 0.5\%$ Apparent power: $\pm 0.5\%$ Reactive power: $\pm 1\%$ Power factor: ± 0.005 Active energy: $\pm 0.5\%$ Apparent energy: $\pm 0.5\%$ Reactive energy: $\pm 1\%$ Average power factor: ± 0.005
Unbalance	Fundamental voltage: 10~700V (true rms) Fundamental current: 0.5~1000A (True rms) Fundamental frequency: 40~70Hz Phase angle: 0~360° Unbalance: 0.0%~100%	Voltage: $\pm 0.5\%$ Current: $\pm 0.5\%$ Frequency: $\pm 0.01\text{Hz}$ Phase angle: $\pm 0.3^\circ$ Voltage unbalance: $\pm 0.2\%$ NOTE: Take L1 frequency as total measurement frequency.
Data Recording	Data logging for: 3 phase voltage, current, null current, voltage harmonic (THD and 1~25 harmonics), current harmonics (THD and 1~25 harmonics), unbalance, KW, KVA, KVAR, PF, flicker and fluctuation	Time interval: 1s~30min adjustable Time duration: <960 hours
Sags(Dips)/Swells	Voltage sag, voltage swells and instant interruption Event characteristics listed: Start time, ending time, duration time($\geq 20\text{ms}$) and voltage magnitude($\text{rms}_{1/2}$)	Maximal event recorded: 40 times Time: $\pm 10\text{ms}$
Fluctuation	Voltage fluctuation: 0.1%~10.0%	$\leq \pm 5\%$

Flicker	1min flicker, short-time(10min) and long-time(2h) flicker	1 minute short-time: $\leq\pm 5.5\%$ 10 minutes short time: $\leq\pm 5\%$ 2 hours long-time: $\leq\pm 5\%$
Inrush	Inrush Current, Inrush duration, Arms $\frac{1}{2}$, Expected Time, Max. Amp, Min. Amp, Threshold Amp	$\pm 10\text{ms}$
Transient	Voltage transient based on 120% above of nominal voltage	Capture rate: 98.7% Minimal detect duration: 20 μs
Power wave	Measure active power, reactive power, and apparent power semi-wave and power tendency of 1 min, 3 min and 5 min.	Semi-wave power reading $\pm 0.5\%$
Scope	3-phase voltage, 4-wire current, null voltage and null current waveform	Max sampling frequency: 200KHz Min sampling frequency: 100Hz

Order Information

Configuration	Code
PQA-3561 Kits	
PQA-3561 with set of 4 color-coded C-5A current clamp and testing leads	Con. #3561.5A
PQA-3561 with set of 4 color-coded CC-10A current clamp and testing leads	Con. #3561.10A
PQA-3561 with set of 4 color-coded CC-20A current clamp and testing leads	Con. #3561.20A
PQA-3561 with set of 4 color-coded CC-100A current clamp and testing leads	Con. #3561.100A
PQA-3561 with set of 4 color-coded CC-500A current clamp and testing leads	Con. #3561.500A
PQA-3561 with set of 4 color-coded CC-800A current clamp and testing leads	Con. #3561.800A
PQA-3561 with set of 4 color-coded CC-1000A current clamp and testing leads	Con. #3561.1000A
PQA-3561 with set of 4 color-coded AmFlex-1500A current clamp and testing leads	Con. #3561.1500A
PQA-3561 with set of 4 color-coded AmFlex-3000A current clamp and testing leads	Con. #3561.3000A

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