

Hioki Power Quality Analyzers

3197

Catch power quality problems on the fly.

- Monitor Inrush Current, Voltage Swells, Voltage Dips, Transient Over-Voltage, Interruptions
- Measure and Record: Power and Power Factor, Active/Reactive Energy, Demand, Load Changes (with graph display), Voltage and Current
- Large 4.7" Color LCD with Backlight

3197
& three
9661 sensors



Includes: voltage cord set, 6 hour battery pack (rechargeable), AC adapter, USB cable, basic PC software, carrying case & strap. Order current sensors separately.

ORDERING INFORMATION

HK/3197	Power Quality Analyzer
HK/9660	100A Clamp-on Sensor (300V, Ø15mm jaw)
HK/9661	500A Clamp-on Sensor (300V, Ø46mm jaw)
HK/9667	5000A Flexible Clamp-on Sensor (1000V, Ø254mm jaw)
HK/9669	1000A Clamp-on Sensor (600V, Ø55mm jaw)
HK/9694	5A Clamp-on Sensor (300V, Ø15mm jaw)
HK/9624-50	Deluxe PQA Analysis Software

SPECIFICATIONS

Measurement lines:	Single-phase 2-wire (1P2W), single-phase 3-wire (1P3W), three-phase 3-wire (3P3W2M & 3P3W3M), three-phase four-wire (3P4W and 3P4W2.5E)
Measurement line frequency:	Auto-detect (50Hz/60Hz)
Voltage range:	600.0V AC (crest factor 2 or less)
Current ranges:	500.0mA, 5.000A, 50.00A, 10.00A, 100.0A, 500.0A, 1.000kA, 5.000 kA (manually switchable in 2 range sets according to clamp sensor)
Measurement items:	
Impulsive voltage quality:	Transient overvoltage (Impulse)
RMS voltage quality:	Voltage swell, Voltage dips, Voltage interruption
Power quality:	Frequency, Voltage, Current, Current peak, Active/Reactive/Apparent power, Power factor (displaced power factor)
Three phase quality:	Voltage unbalance ratio, Current unbalance ratio
Harmonic quality: (to 50th harmonic)	Harmonic voltage, Harmonic current, Harmonic power, Harmonic voltage/current phase angle, Total harmonic voltage distortion, Total harmonic current distortion (THD-F, THD-R),
Measurement method:	Simultaneous digital sampling of voltage and current (sampling frequency 10.24 kHz per channel)
Interval settings:	Auto / 1 / 5 / 10 / 15 / 30 / 60 minutes
Recordable period:	125 days maximum; partition memory into four segments for maximum 31 days of recording each
Internal memory:	4 MB non-volatile
PC Interface:	USB 2.0
Dimensions:	5.1"W x 9.7"H x 2.5"D (128 x 246x 63 mm)

PQ3100

Record & analyze data with a single instrument..



PQ3100
& four **CT7045**
current sensors

- Records data including voltage, current, power, harmonics, and flicker simultaneously along a single time axis
- Captures power anomalies, including instantaneous outages, voltage drops, and frequency fluctuations, while simultaneously recording trend data.
- On-screen setup guide for quick startup
- Records waveforms for 1 sec before & 10 sec after an event
- 8 hour battery rides thru power interruptions

ORDERING INFORMATION

HK/PQ3100	Power Quality Analyzer with voltage probes, AC adapter, battery pack, USB cable, 2G SD memory card, software CD
HK/PQ3100-91	PQ3100 plus two CT7136 600A current sensors, 8G SD memory card, hard carrying case
HK/PQ3100-92	PQ3100 plus four CT7136 600A current sensors, 8G SD memory card, hard carrying case
HK/PQ3100-94	PQ3100 plus four CT7045 6000A flex current sensors, 8G SD memory card, hard carrying case

NEW

SPECIFICATIONS

Measurement items:	
Voltage:	DC value, CF value, RMS voltage (phase), RMS (line to line), Transient overvoltage, RMS voltage refreshed each half-cycle, Voltage waveform peak, Swell, Dip, Interruption.
Current:	Peak, DC value, CF value, RMS, Inrush, RMS refreshed each half-cycle.
Frequency:	Cycle, Frequency (200ms), 10-sec Frequency.
Power:	Active, Apparent, power, Reactive power, Apparent power,
Energy:	Active, Reactive, Apparent, Energy cost.
Power factor / Displacement power factor.	
Unbalance factor (negative-phase, zero-phase):	Voltage, Current
Harmonic:	Voltage, Current, Power.
Inter-harmonic:	Voltage, Current.
Phase angle:	Harmonic voltage, Harmonic current, Harmonic voltage-current.
Total harmonic distortion:	Voltage factor, Current distortion factor, K factor
Measurement lines:	Single-phase 2-wire (1P2W), single-phase 3-wire (1P3W), three-phase 3-wire (3P3W2M & 3P3W3M), three-phase four-wire (3P4W)
Measurement line frequency:	DC/50Hz/60Hz
Voltage range:	1000V AC/DC, 2200V peak
Measurement method:	Digital sampling & zero-cross synchronous computation
Sampling frequency:	200 kHz (16 bit resolution)
Interval settings:	200 or 600 ms; 1, 2, 5, 10, 15, 30 s; 1, 2, 5, 10, 15, or 30 m; 1 or 2 h; 150 or 180 cycles
Recordable period:	1 year max.
Accuracy:	Vrms: ±0.2%; Swells, dips, outages: ±0.3%
Communications:	USB, RS-232, Ethernet
Operating Temperature:	-20 to 50°C, <80% RH non-condensing
Display:	6.5 inch TFT color LCD, 0.5s refresh rate
Safety:	CAT III (1000V), CAT IV (600V)
Warranty:	3 years
Dimensions:	11.81"W x 8.31"H x 2.68"D (300 x 211x 68 mm)