

382100/PQ3470 3-Phase Power Quality Analyzer/Dataloggers



Model 382100 includes 1200A Clamp Probes

Patent Pending



Kits Available

Model PQ3470 with Harmonics; Clamp Probes not included unless ordered as a Kit.

Clamp Probes Choose from clamp probes ranging from 200A to 3000A and flexible vs traditional jaw.



PQ34-2: 200A Current Clamp Probes with 0.8" (19mm) jaw opening



PQ34-12: 1200A Current Clamp Probes with 2" (50mm) jaw opening



PQ34-30: 3000A Flexible Current Clamp Probes (24"/600mm) for wrapping around busbars.

Choice of Numerical or Graphical display with Harmonics model

- Large, dot-matrix, sun readable, numerical, backlit LCD
- Captured measurements can be imported directly into Excel via the SD memory card
- Adjustable Current Transformer CT (1 to 600) and Potential Transformer PT (1 to 1000) ratio for high power distribution systems
- Log up to 30,000 reading on a removable SD memory card in Microsoft Excel® format
- Wide sampling rate range (2 seconds to 2 hours)
- Built-in Clock and Calendar and easy-to-use on-screen menu
- Banana style input jacks and easy-to-hold rugged over molded housing
- **Model 382100 Kit**— includes three 1200A Clamp probes; **Model PQ3470** — clamp probes sold separately
- Complete with 4 voltage leads with alligator clips, 8 AA batteries, SD memory card, Universal AC adaptor (100 to 240V), and durable hard carrying case; 1 year warranty

Model PQ3470 Additional Features

- Optional 200A, 1200A Current Clamps or 3000A Flexible Current Probes
- On-screen Harmonics display (1 to 50th order)
- Simultaneous display of Harmonics and Waveform
- Simultaneous display of Voltage and Current waveforms
- Display of Waveform with peak values
- Analysis of Total Harmonic Distortion (THD)
- Graphic Phase diagram with 3-Phase system parameters
- 3-phase Voltage or Current Unbalanced Ratio (VUR, AUR) and unbalanced factor
- Capture Transient events (including dip, swell, outage) with programmable threshold (%)

SPECIFICATIONS	RANGE	BASIC ACCURACY
AC Voltage (True RMS)	600.0V	±(0.5%rdg)
AC Current	Model 382100: 1200A Model PQ3470: 6000A (dependent on Clamp Probe range used)	±(0.5%rdg)
Active Power (MW)	9.999MW	±(1.0%rdg)
Apparent Power (MVA)	9.999MVA	±(1.0%rdg)
Reactive Power (MVAR)	9.999MVAR	±(1.0%rdg)
Power Factor	0.00 to 1.00	±0.04
Frequency Range	45Hz to 65Hz	±0.1Hz
Phase	-180° to +180.0°	±1°
Harmonics (PQ3470)	1 to 50th	±2% (1 to 20); ±4% (21 to 31)
Crest Factor (PQ3470)	1.00 to 99.99	±(5%)
Current Clamp input	200mV, 300mV, 500mV; 1V, 2V, 3V; user-adjustable	±(0.5%rdg)
Active Power Energy (MWH)	0.0kWh to 9.999MWH	±(2.0%rdg)
Apparent Power Energy (MVAH)	0.0kVAh to 9.999MVAH	±(2.0%rdg)
Reactive Power Energy (MVARH)	0.0kVARh to 9.999MVARH	±(2.0%rdg)
Datalogging	30,000 data (2GB SD Card)	
Peak AC Voltage/Current Accuracy		±(5%) PQ3470 only
CE/CAT rating	CE/CAT III-600V	
Dimensions/ Weight	8.86 x 4.92 x 2.52" (225 x 125 x 64mm)/ 2.2lbs (1010g)	

ORDERING

382100	1200A 3-Phase Power Analyzer/Datalogger Kit (includes 1200A Clamp Probes)
PQ3470	3-Phase Graphical Power and Harmonics Analyzer/Datalogger (meter only)
PQ3470 Kits	
PQ3470-2	200A Power Analyzer Kit: PQ3470 with PQ34-2
PQ3470-12	1200A Power Analyzer Kit: PQ3470 with PQ34-12
PQ3470-30	3000A Power Analyzer Kit: PQ3470 with PQ34-30
PQ3470 Accessories	
PQ1000	Voltage Test Leads with Alligator and Plunger Clips (4 leads)
PQ34-2	200A Current Clamp Probes (Set of 3)
PQ34-12	1200A Current Clamp Probes (Set of 3)
PQ34-30	3000A, Flexible Current Probes (Set of 3)



PQ3350-1/PQ3350-3 3-Phase Power Quality & Harmonics Analyzers



CE



Includes (3) flexible current clamps, (4) voltage leads with alligator clips and retractable plunger clips, 8 AA batteries, universal AC adaptor, software, USB interface cable, and case; 1 year warranty.

Power Measurements and Analysis + Datalogging of single and 3-phase/3-wire or 3-phase/4-wire systems; CAT III - 600V safety rating

- Model PQ3350-1 (1200A 12" flexible current clamp probes)
- Model PQ3350-3 (3000A 24" flexible current clamp probes)
- Large backlighting LCD displays up to 35 parameters in one screen
- Clamp-on True RMS power measurements with on-screen Harmonics display
- Simultaneous display of Voltage and Current waveforms
- Analysis of Total Harmonic Distortion (THD-F)
- Maximum Demand (MDkW, MW, kVA, MVA) with programmable period
- Adjustable CT ratio (1 to 600) and VT ratio (1 to 3000)
- 3-phase Voltage or Current Unbalanced Ratio (VUR, AUR) and unbalanced factor
- Calculated Unbalanced Current through Neutral Line (In)
- Capture 28 Transient events with programmable threshold (%)
- USB interface w/software to download Waveforms, Power Parameters & Harmonics

SPECIFICATIONS	RANGES	BASIC ACCURACY
AC Voltage (True RMS)	600V	±0.5%rdg
AC Current (True RMS)	100A, 1000A, 3000A*	±0.5%rdg
Active Power (kW)	9.999MW	±1%rdg
Apparent Power (kVA)	9999kVA	VA=Vrms x Arms
Reactive Power (kVAR)	9999kVAR	VAR= sqrt (VA ² -W ²)
Power Factor	0.0 to +1.00	±1.5%rdg
Frequency	45-65Hz	0.1Hz
Phase	-180.0°~ 0°~ +180.0°	±1°
Harmonics/ Crest Factor	1 to 99/ 1.00 to 99.99	±2% / ±5%
Active Power Energy (kWh)	0mWh to 999.999kWh	
Reactive Power Energy (kVARh)	0.0kVARh to 1000MWh	
Datalogging	52428 records (1P2W)/17476 records (3P4W)	
Dimensions/ Weight	Meter: 10.1 x 6.1 x 2.3" (257 x 155 x 57mm)/ 2.5 lbs (1160g) Clamp: 2.2" (55mm), 2.5" x 1.0" (64x24mm) busbar/ 1.3 lbs (600g)	

* Using PQ3220 Current Probe (included with PQ3350-3 kit)

ORDERING

PQ3350-1	N	1200A 3-Phase Power Harmonics Analyzer Kit (includes PQ3210)
PQ3350-3	N	3000A 3-Phase Power Harmonics Analyzer Kit (includes PQ3220)
PQ1000		Voltage Test Leads with Alligator and Plunger Clips (4 leads)

PQ2071 True RMS 1000A AC 1-/3-Phase Power Clamp Meter



Includes test leads, USB cable, PC software, 9V battery, and carrying case; 1 year warranty.

CE

Measures AC Current, Frequency, and Power; USB interface with software

- Dual backlit LCD display with bargraph
- Built-in non-contact Voltage Detector with LED alert
- Manually store/recall up to 99 data sets
- Data Hold, Max/Min, and Auto Power Off
- CAT IV-600V, CAT III - 1000V safety rating

SPECIFICATIONS	RANGES
Jaw size/Cable size	2.2" (55mm); 1000MCM
True Power (max res.)	750kW (10W)
Basic Accuracy (ACA)	±3%rdg
Apparent Power/ Reactive Power	750kVA (10kVA)/ 750kVAR (10VAR)
Power Factor	Yes
Phase Angle ()	-180° to 180° (1°)
Active Power Energy	9999kWh (0.001kWh)
AC/DC Current (True RMS)	1000A AC (100mA)
AC/DC Voltage (True RMS)	750V AC (0.1V)
Frequency (max res.)	50Hz to 200Hz (1Hz)
Dimensions/Weight	11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)

ORDERING

PQ2071	N	True RMS 1000A AC 1-/3-Phase Power Clamp Meter
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