



### 3-Phase Power Quality Recorders

- Backlit LCD shows 35 parameters

Work with 1- and 3-phase systems (wye and delta). Programmable sampling rates. Log voltage, current, sags or surges, harmonics, energy, power factor, power, and frequency.

Note: Additional accessories are available on Grainger.com; search for "power quality recorders accessories."

**PQ3400 Series**—Provide true RMS power measurements on displays that can be read in direct sunlight. Adjustable CT and PT ratios. Log up to 30,000 readings in Microsoft Excel format on a removable SD memory card for easy data transfer. Each includes 4 voltage leads with alligator clips, universal 100 to 240VAC adapter, case, and AA batteries. Cat III 600V.

- Kit current capability up to 3000A, probe dependent (clamp probes sold separately)
- 2 GB SD memory card

**382100 Series**—Provides simultaneous display of true RMS data. Adjustable CT and PT ratios. Includes three 1200A current clamps, 4 voltage leads with alligator clips, AC adapter, AA batteries, and case. CAT III 600V.

- Optically isolated RS-232 interface; USB adapter

**PQ3350 Series**—Provide clamp-on true RMS power measurements with simultaneous display. Adjustable

CT and VT ratios. Measure 1- and 3-phase/3-wire or 3-phase/4-wire systems with datalogs (52,428 1-phase readings, 17,476 3-phase). Each includes 3 flexible clamp probes (1200A, 12" PQ3350-1; 3000A, 24" PQ3350-3), 4 voltage leads with alligator clips and retractable plunger clips, USB cable, software, AC adapter, case, and AA batteries. CAT III 600V.

- Graphic phase diagram with 3-phase system parameters
- Peak capture
- Optically isolated USB interface

**Power Quality Recorders**—The Dranetz HDPQ merges state-of-the-art power monitoring capabilities with excellent communication capabilities to provide users with an exceptional monitoring experience. Each instrument has a built-in 7" color widescreen LCD user interface for monitoring setup and data review. By putting operator safety first, the Dranetz HDPQ also enables users to review data and change settings remotely from virtually any Smartphone or Tablet mobile device, along with traditional PC and Mac laptops and desktops. Just hook up the instrument, close the cabinet doors to the "safe" the environment, and use either a free third party VNC App or the Dranetz HDPQ Apple or Android App.



4DKJ9



32ZN35

Kit Current Capability	Current Accuracy	Max. AC Amps	Calibration Frequency	Max. AC Voltage	Voltage Accuracy	Storage	Harmonic Capture Range	Mfr. Model	Item No.
<b>Extech</b>									
<b>Power Analyzer/Datalogger</b>									
—	±0.5% +5 Digits	3,000 A	60 Hz	600	±0.5%	30,000 Readings	—	PQ3450	15E576
1,200A	±0.5% +30 Digits	1,200 A	45 to 65 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	—	382100	4DKJ9
<b>Power and Harmonics Analyzer</b>									
1,200A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-1	5WYU2
1,200A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-1-NIST	5WYU3 †
3,000A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-3	5WYU4
3,000A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-3-NIST	5WYU5 †
<b>Dranetz</b>									
<b>Power Quality Analyzer Kit</b>									
1 to 10A	±0.1%	10 A	—	1,000	±0.5%	4 GB	127/63	HDPQ-P-VA10PKG	32HX93
3 to 3,000A	±0.1%	3,000 A	—	1,000	±0.5%	4 GB	127/63	HDPQ-P-VAFLEX3KPKG	32HX96
—	±0.1%	—	—	1,000	±0.1%	4 GB	127/63	HDPQ-P-XA4PKG	32HX99
1 to 10A	±0.1%	10 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-XA10PKG	32ZN32
3 to 3,000A	±0.1%	3,000 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-XAFLEX3KPKG	32ZN35
1 to 10A	±0.1%	10 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-GA10PKG	32ZN24
3 to 3,000A	±0.1%	3,000 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-GAFLEX3KPKG	32ZN27

† NIST Certified.

### 1-Phase Loggers and Recorders

**AEMC CL601**—Self-contained, data logging, true RMS AC clamp-on current logger offers simple 1-button operation with no exposed connections. 64 samples per cycle. Overload indication. Includes DataView software, USB cable, and batteries.

- Jaw opening: 1.7"
- 5 LED indicators

**AEMC L261**—Provides continuous voltage recording for up to 8 wk. and real-time wave form viewing when connected to a PC. Sampling rate is programmable from 1/8 sec. to 1 in 24 hr. Has true RMS and DC voltage logging. Includes test leads, DataView software, interface cable, and batteries.

**Extech DL160**—Can simultaneously measure 2 AC voltage inputs, 2 AC current inputs, or 1 each of AC voltage and AC current. Programmable sample rate from 1 sec. to 24 hr. Readings can be downloaded to a PC for analysis. Includes 2 current and 2 voltage sensor modules, 2 test leads, 2 alligator clips, software, USB cable, universal AC adapter, and batteries.

**Extech DL150**—Has programmable sample rate from 1 sec. to 24 hr., and true RMS readings to 600V or 200A. Data can be downloaded to a PC for analysis with included software. Includes current clamp, test leads, USB cable, universal AC adapter, and battery.



2KGY1

5LUT6

Voltage Range	Current Range	Voltage Accuracy	Min. Transient Duration	Storage	Interface	Power Source	Safety Rating	Mfr. Model	Item No.
<b>AEMC</b>									
0 to 600 AC/DC	—	±0.5%	0.259 uS	240,000 Readings	USB	(2) AA Batteries	CAT III 600V, CAT IV 300V	L261	4PKE9
—	0 to 600 A AC	—	—	240,000 Readings	USB	(2) AA Batteries	CAT III 600V, CAT IV 300V	CL601	2KGY1
<b>Extech</b>									
6 to 600V AC	10 to 200A AC	±1.5%	—	256,000 Readings	USB	Lithium Battery or 120 V	CAT III 600V	DL160	5LUT7
10 to 600V AC	10 to 200A AC	±1.5%	—	100,000 Readings	USB	Lithium Battery or 120 V	CAT III 600V	DL150	5LUT6

### Navigator Series Power Quality Clamps

- THD (total harmonics distortion): 0.1 to 100%
- Individual harmonics: 1 to 25th
- Power (W)
- Power factor: -1.00 to 1.00

A full range of diagnostic capabilities including phase sequence, power and power factor, total harmonics distortion and individual harmonics, inrush current, low-pass filter, and noncontact voltage detection.

**AMPROBE**



ACDC-54NAV  
6NZJO

Max. AC Amps	Max. DC Amps	Max. AC Volts	Voltage Accuracy	Temp. Range	Jaw Opening	Safety Rating	Mfr. Model	Item No.
600	—	1,000	AC +/-1.0% Rdg +5	—	1.77 in	—	ACD-50NAV	6NZH6
600	600	1,000	Digits, DC +/-0.7%	—	1.77 in	CAT III 1000V, CAT IV 600V	ACDC-52NAV	6NZH8
1,000	1,000	1,000	Rdg +2 Digits	-50° to 1832°F (-50° to 1000°C)	1.77 in	—	ACDC-54NAV	6NZJ0