

# Three-Phase Power Quality Analyzer PowerPad® Model 8335

**FREE full featured software included for complete power quality analysis and reporting!**



(upon registering)



## Features

- Measurement of TRMS voltages up to 1000Vrms AC/DC for two, three, four or five-wire systems
- Measurement of TRMS currents up to 6500Arms (sensor dependent)
- Color coded input ID markers included
- Direct measurement of neutral current & voltage
- Frequency measurement (40 to 69Hz systems)
- Record and display trend data as fast as once per second for one month for up to 25 variables
- Transient detection on all V and I inputs (up to 210)
- Selectable PT and CT ratios
- Inrush current measurement
- Calculation of Crest Factors for V and A
- Calculation of the K-Factor for transformers
- Calculation of short-term flicker
- Calculation of the Three-Phase voltage unbalance
- Harmonic measurements (referenced to the fundamental or RMS value) for voltage, current or power, up to 50<sup>th</sup> harmonic
- Displays of harmonic sequencing and direction and calculation of overall harmonics
- Real time display of Phasor diagrams including values and phase angles
- Monitors the average value of any parameter, calculated for a period from 1 sec to 2 hrs
- Measurement of active, reactive and apparent power per phase and their respective sum total
- Calculation of power factor, displacement power factor and tangent factor
- Recording, time stamping and characterization of disturbance (swells, sags and interruptions, exceedence of power and harmonic thresholds)
- 2GB internal Trend Recording memory; Alarm, Photo and Transient Inrush memories are separate
- Measurement of energy VAh, VARh & Wh
- The Max and Min RMS measurements are calculated every half-period

## Four voltage and four current inputs

SPECIFICATIONS	
MODEL	8335
<b>ELECTRICAL</b>	
Sampling Frequency	256 samples/cycle
Data Storage	2GB SD Card, 12.5MB partitioned for snapshot, transients, Inrush, alarms & trend recording
Voltage (TRMS)	Phase-to-Phase: 2000V; Phase-to-Neutral: 1000V Voltage Ratio: up to 500kV
Current (TRMS)	MN Clamp: 0 to 6A/120A or 0 to 240A SR Clamp: 0 to 1200A MR Clamp: 0 to 1000Aac, 0 to 1400Aac MiniFlex®: 10 to 1000A AmpFlex®: 10 to 6500A <sup>(1)</sup> Current Ratio: 10mA to 50kA
Frequency (Hz)	40 to 69Hz
Other Measurements	kW, kVAR, kVA, PF, DPF, kWh, kVARh, kVAh, K-Factor, Flicker
Harmonics	1 <sup>st</sup> to 50 <sup>th</sup> , Direction, Sequence
Power Source	9.6V NiMH rechargeable battery pack (included) External AC supply: 110/230VAC ±10% (50/60Hz)
Battery Life	≥8 hours with display on; ≤35 hours with display off (record mode)
<b>MECHANICAL</b>	
Communication Port	Optically isolated USB
Display	¼ VGA (320 x 240) color LCD display with adjustable brightness & contrast
Dimensions	9.8 x 7.8 x 2.6" (250 x 200 x 67mm)
Weight	4.3 lbs (1.95kg)
Safety Rating	EN 61010-1, 600V CAT IV <sup>(2)</sup> , 1000V CAT III, Pollution Degree 2

<sup>(1)</sup>Crest factor at 6500 = 1

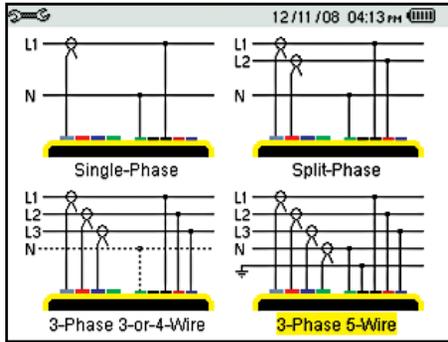
<sup>(2)</sup>When used with SR193 or AmpFlex® probes. 600V CAT III with MN193 or MR193 probes.



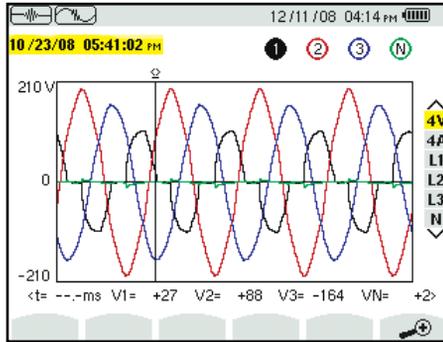
All models include five 10 ft black voltage leads, five black alligator clips, twelve color-coded rings, USB cable, NiMH battery, 110/240V power adapter with US power cord, DataView® software, large classic tool bag, soft carrying pouch and user manual.

## Large Color Display!

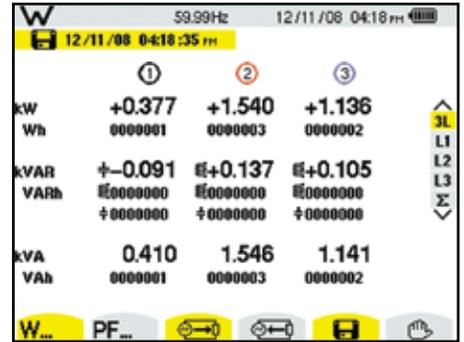
### Configuration



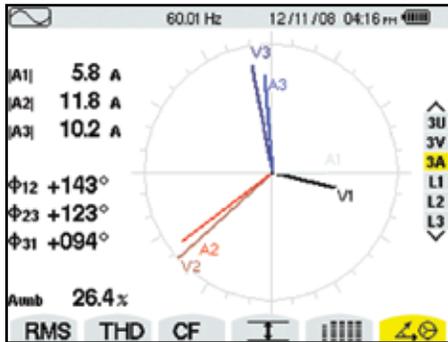
### Transient Mode



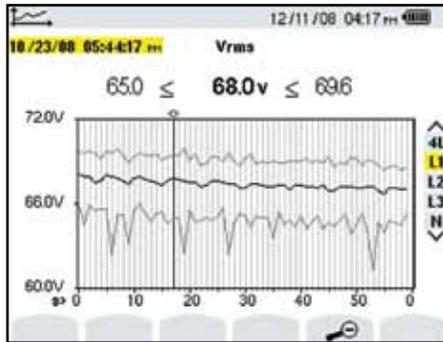
### Power and Energy Mode



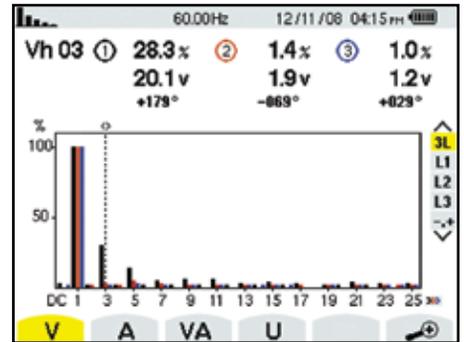
### Phasor Diagram



### Recording Mode



### Harmonics Mode



CATALOG NO.	DESCRIPTION
2136.20	PowerPad® Model 8335 (no probes)
2136.21	PowerPad® Model 8335 w/4 MN93-BK (200A)
2136.22	PowerPad® Model 8335 w/4 SR193-BK (1200A)
2136.23	PowerPad® Model 8335 w/4 24" AmpFlex® 193-24-BK (6500A)
2136.24	PowerPad® Model 8335 w/4 36" AmpFlex® 193-36-BK (6500A)
2136.25	PowerPad® Model 8335 w/4 MR193-BK (1000Aac/1400Aac)
2136.26	PowerPad® Model 8335 w/4 MN193-BK (5A/100A)
2136.27	PowerPad® Model 8335 w/4 MA193-10-BK (1000A)
<b>Accessories (Optional)</b>	
2133.73	Extra Large Classic Tool Bag
2140.15	Replacement – Soft Carrying Pouch
2140.17	5A Adapter box ( <i>special order only</i> )
2140.19	Replacement – Battery 9.6V NiMH
2140.28	AC Current Probe Model MR193-BK (1000Aac/1400Aac)
2140.32	AC Current Probe Model MN93-BK (200A)
2140.33	AC Current Probe Model SR193-BK (1200A)
2140.34	AmpFlex® Sensor 24" Model 193-24-BK (6500A)
2140.35	AmpFlex® Sensor 36" Model 193-36-BK (6500A)
2140.36	AC Current Probe Model MN193-BK (5A/100A)
2140.43	Replacement – Set of 5, 10ft (3m) black leads w/5 black alligator clips
2140.44	Lead, 1 10ft (3m) black lead w/black alligator clip
2140.45	Replacement – Set of 12, Color-coded Input ID Markers
2140.46	Replacement – 5 ft USB cable
2140.48	One MiniFlex® Sensor 10" Model MA193-10-BK (1000A)