

Three-Phase Power Quality Analyzer







PowerPad® III Model 8336

2GB of memory for trend data storage and additional memory for: up to 50 snapshots, 210 captured transients/inrush and 10,000 alarm events



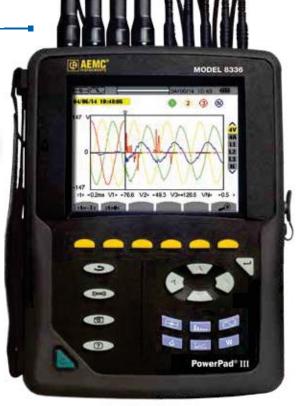


(upon registering)

Five voltage and four current input terminals

► SPECIFICATIONS

MODEL	8336		
Input Terminals	5 voltage / 4 current		
Inputs	4 voltage / 4 current		
Voltage (TRMS AC+DC)	2 to 1000V		
Voltage Ratio	up to 500kV		
Current (TRMS AC+DC)	MN93: 500mA to 200Aac; MN193: 0.005 to 100Aac SR193 Clamp: 1A to 1000Aac AmpFlex® or MA193 Clamps: 100mA to 10000Aac MR193 Clamp: 1A to 1300Aac/bc SL261 Clamp: 50mA to 100Aac/bc Current Ratio: up to 60kV		
Frequency (Hz)	40 to 69Hz		
Distribution Systems	1P 2W, 1P 3W, 2P 2W, 2P 3W, 2P 4W, 3P 3W, 3P 4W and 3p 5W, 2 ½ Element & Aron meters		
Power Values	W, VA, var, VAD, PF, DPF, cos ϕ , tan ϕ		
Energy Values	Wh, VARh, VAh, VADh		
Harmonics	1st to 50th, Direction, Sequence; THD: 0 to 50, phase		
Transients	up to 210		
Flicker (Pst & Plt)	Yes		
Inrush Mode	Yes, >10 min		
Unbalance	Yes		
Recording	Yes		
Alarm Mode	40 types; 10,000 recorded		
Peak	Yes		
Phasor Display	Automatic		
Display	Color ¼ VGA TFT screen (320 x 240) diagonal 148mm		
Snapshots	50		
Electrical Safety	IEC 61010, 1000V CAT III / 600V CAT IV		
Protection	IP50		
Languages	more than 27		
Communication Interface	USB		
Battery Life	>13 hrs, 25 hrs in Record Mode		
Power Supply	9.6V NiMH rechargeable battery pack (included) External AC supply: 110/230Vac ±10% (50/60Hz)		
Dimensions / Weight	9.8 x 7.8 x 2.6" (240 x 180 x 55mm) / 4.3 lbs (1.95kg)		













▶PRODUCT INCLUDES

8336 Kit

Four current probes (AmpFlex® example shown), five black 10 ft voltage leads, five blackalligator clips, twelve color-coded input ID markers, USB cable, NiMH battery, 110/240V power adapter with US power cord, large classic tool bag, soft carrying pouch, quick start user guide, and USB stick supplied with product user manual and DataView® software.





8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012

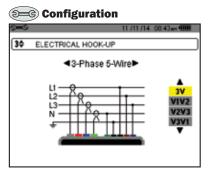
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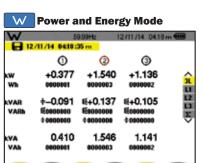
PowerPad® III Model 8336

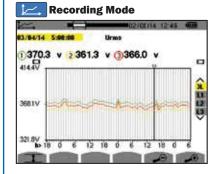
Large Color Functional Displays

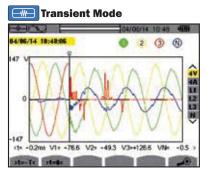
▶ FEATURES

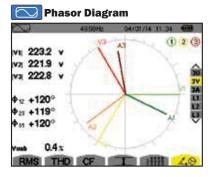
- Measurement of TRMS voltages up to 1000Vrms AC/DC for two-, three-, four- or five-wire systems
- Measurement of TRMS currents up to 6500Arms (sensor dependent)
- · Direct measurement of neutral current & voltage
- Frequency measurement (40 to 69Hz systems)
- Record and display trend data as fast as 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 and long-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 50th 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 & VADh
- The Max and Min RMS measurements are calculated every half-period
- Includes FREE DataView® software for configuring data storage, real-time display, analysis and report generation
- 65µs/sample trend recording

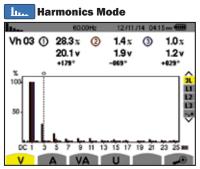












CATALOG NO.	DESCRIPTION
2136.30	PowerPad® III Model 8336 (no probes)
2136.31	PowerPad® III Model 8336 w/4 193-24-BK Sensors
2136.32	PowerPad® III Model 8336 w/4 MN193-BK Probes
Accessories (Optional)	
2133.73	Extra Large Classic Tool Bag
2140.15	Replacement – Soft Carrying Pouch
2140.17	5A Adapter Box (special order only)
2140.19	Replacement – Battery 9.6V NiMH
2140.28	AC Current Probe Model MR193-BK
2140.32	AC Current Probe Model MN93-BK
2140.33	AC Current Probe Model SR193-BK
2140.34	AmpFlex® Sensor 24" Model 193-24-BK
2140.35	AmpFlex® Sensor 36" Model 193-36-BK
2140.36	AC Current Probe Model MN193-BK
2140.43	Replacement – Set of 5, 10 ft (3m) black leads w/5 black alligator clips
2140.44	Lead, 1 10 ft (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	MiniFlex® Sensor 10" Model MA193-10-BK



POWER QUALITY ANALYZERS, METERS & LOGGERS

Optional Accessories

SENSOR TYPE	CURRENT RANGE		ACCURACY (TYPICAL)	TYPICAL ERROR ON Ф AT 50/60HZ	MAX Conductor Size	USED WITH Model	LIMITED RANGE IF USED WITH MODEL
MiniFlex® MA193 *	100mA to 3000Aac		±1%	0°	2.75" (70mm)	PEL 102 PEL 103 8333 8336	8220 8230 8435
MR193 Battery operated	1 to 1000Aac 1 to 1300Adc		±2.5%	-0.80°	1.6" (41mm)	PEL 102 PEL 103 8333 8336	8220 8230 8435
SR193	1 to 1200Aac		±0.3%	+0.2°	2.05" (52mm)	PEL 102 PEL 103 8333 8336	8220 8230 8435
AmpFlex® 193 * 24" or 36" sensor	100mA to 12,000Aac		±1%	0°	7.64" (190mm) or 11.46" (290mm)	PEL 102 PEL 103 8333 8336	8220 8230 8435
MN93	0.5 to 240Aac		±1%	+0.8°	0.78" (20mm)	PEL 102 PEL 103 8333 8336	8220 8230 8435
MN193	100A	200mA to 120Aac	±1%	+0.75°	0.78"	PEL 102 PEL 103	8220 8220
O a	5A 5mA to 6Aac		±1%	+1.7°	(20mm)	8333 8336	8230 8435



The Right Source For Your Test & Measurement Needs Email: sales@calright.com http://www.calright.com

SENSOR TYPE	CURRENT RANGE		ACCURACY (TYPICAL)	TYPICAL ERROR ON Ф AT 50/60HZ	MAX Conductor Size	USED WITH MODEL	LIMITED RANGE IF USED WITH MODEL
SL261 **	100A	5 to 100Aac/dc	±4%	±0.5°	0.46"	PEL 102 PEL 103	8220 8230
Battery operated	10A	50mA to 10Aac/dc	±3%	±1°	(11.8mm)	8333 8336	8435
J93 Battery operated	50 to 3500Aac 50 to 5000Adc		±1%	±1°	2.83" (72mm) Busbar: 5 x 1.69" (127 x 43mm)	PEL 102 PEL 103 8333 8336 8435	N/A
J193 Powered by meter	50 to 3500Aac 50 to 5000Adc		±1%	±1°	2.83" (72mm) Busbar: 5 x 1.69" (127 x 43mm)	PEL 102 PEL 103	N/A
A196-18 18" sensor IP67	1	0 to 10,000Aac	±2%	0°	5.73" (145mm)	8435	N/A

^{*} Maximum current reduced by a factor of 2 for 400Hz fundamental frequency.

Note: Refer to the power meter's product user manual for complete specifications.

** AC/DC Current Probe BNC Adapter for Model SL261 only Catalog #2140.40

CATALOG NO.	DESCRIPTION
1201.51	AC/DC Current Probe Model SL261 (BNC)
2137.78	AC/DC Current Probe Model J193-BK
2140.37	Adapter – US 110V Power Adapter (eliminates need for batteries) 8220 & 8230 only
2140.28	AC Current Probe Model MR193-BK
2140.32	AC Current Probe Model MN93-BK
2140.33	AC Current Probe Model SR193-BK
2140.34	AmpFlex® Sensor 24" Model 193-24-BK
2140.35	AmpFlex® Sensor 36" Model 193-36-BK
2140.36	AC Current Probe Model MN193-BK
2140.48	MiniFlex® Sensor 10" Model MA193-10-BK
2140.49	AC/DC Current Probe Model J93-BK
2140.74	AmpFlex® Sensor 18" (Waterproof - IP67) Model A196-18-BK



DataView®

Translent Report

Data Analysis and Reporting Software for Power Quality Meters





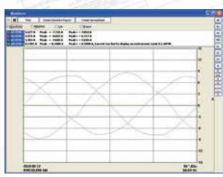


- Display and analyze real-time data on your PC
- Configure functions and parameters from your PC
- Customize views, templates and reports to your exact needs
- Create and store a complete library of configurations that can be uploaded as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- Display waveforms, trend graphs, harmonic spectrums, text summaries, transients, event logs and stored alarms
- Print reports using standard or custom templates you design
- Free updates are available on our website www.aemc.com

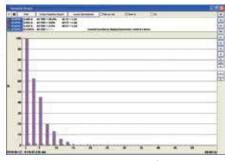
Typical DataView® Functional, Digital & Graphical Displays



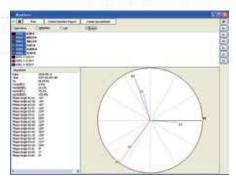
Clear and easy setup of all functions from one tabbed dialog box.



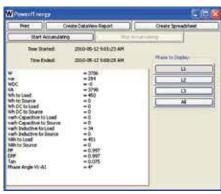
Display real-time waveforms by phase, parameter or total.



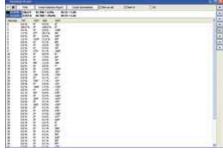
Display all harmonics from 1st to 50th in bargraph form for voltage, current and power.



Display real-time Phasor diagrams.
Includes unbalance for both voltage and current.



Display power and energy parameters – both instantaneous and total.



Display harmonics in a text table from harmonic 0 (DC) through the 50th.



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