

POWER QUALITY ANALYZERS, METERS & LOGGERS

Three-Phase Power Quality Analyzer









PowerPad® III Model 8333

Memory partitioned for trend recordings, and up to 12 snapshot, 51 captured transients and 4000 alarm events





Four voltage and three current input terminals

► SPECIFICATIONS

MODEL	8333			
Input Terminals	4 voltage / 3 current			
Inputs	3 voltage / 3 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 60kA			
Frequency (Hz)	40 to 69Hz			
Distribution Systems	1P 2W, 1P 3W, 2P 2W, 2P 3W, 2P 4W, 3P 3W, 3P 4W, Split-Phase 2W & 3W, 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 51			
Flicker (Pst)	Yes			
Unbalance	Yes			
Recording	Yes			
Alarm Mode	10 types; 4000 recorded			
Peak	Yes			
Phasor Display	Automatic			
Display	Color 1/4 VGA TFT screen (320 x 240) diagonal 148mm			
Snapshots	12			
Electrical Safety	IEC 61010, 1000V CAT III / 600V CAT IV			
Protection	IP53			
Languages	more than 27			
Communication Interface				
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

8333 Kit

Three current probes (AmpFlex® example shown), four black 10 ft voltage leads, four black alligator clips, twelve color-coded input ID markers, NiMH battery, 110/240V power adapter with US power cord, carrying bag, soft carrying pouch, and USB stick supplied with product user manual and DataView® software (See pages 24 and 25 for optional current probes).



►OPTIONAL ACCESSORIES

AmpFlex® 193 flexible current probe (6500A) Color-coded, 24", rated 600V CAT IV



MN193 current probe (5A/100A) Color-coded, rated 600V CAT III



^{*} Registration must take place within 30 days of purchase



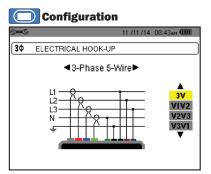


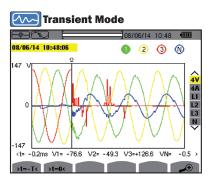
PowerPad®III Model 8333

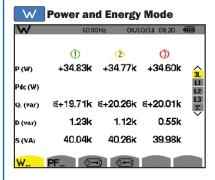
Large Color Functional Displays

► FEATURES

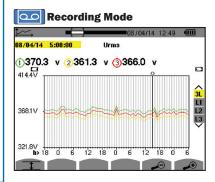
- True RMS single-, two- and three-phase measurements at 256 samples/cycle, plus DC
- Real-time color waveforms
- Easy-to-use on-screen setup
- Predetermined or user selectable scaling (probe dependent)
- True RMS voltage and current measurement
- Measures DC volts, amps and power
- Displays and captures voltage, current and power harmonics to 50th order, including direction,
- Captures transients down to 1/256th of a cycle (65/sec)
- Stores comprehensive database of logged data
- Phasor diagram display
- Peak voltage and current
- Nominal frequency from 40 to 70Hz
- VA, VAR and W per phase and total
- kVAh, varh and kWh per phase and total
- Neutral current display for three-phase
- Crest factors for current and voltage
- Calculation of the Factor K for transformers
- Power Factor, displacement PF display
- Captures up to 51 transients
- Short-term flicker display
- Phase unbalance (current and voltage)
- Harmonic Distortion (total and individual) from 1st to 50th
- Alarms, surges and sags
- Records date and characteristics of disturbances
- Screen snapshot function captures waveforms or other information on the display
- Optically isolated USB communication port
- Includes FREE DataView® software for configuring data storage, real-time display, analysis and report generation

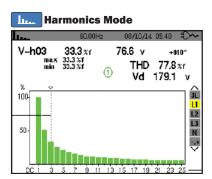












CATALOG NO.	DESCRIPTION
2136.10	PowerPad® III Model 8333 (no probes)
2136.11	PowerPad® III Model 8333 w/3 193-24-BK AmpFlex® Sensors
2136.12	PowerPad® III Model 8333 w/3 MN193-BK Probes
Accessories (Optional)	
2133.73	Extra Large Classic Tool Bag
2140.15	Replacement – Soft Carrying Pouch
2140.17	5A Adapter 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
2140.49	AC/DC Current Probe Model J93-BK



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POWER QUALITY ANALYZERS, METERS & LOGGERS

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 8230
O.	5A	5mA to 6Aac	±1%	+1.7°	(20mm) 83: 83:		8435



POWER QUALITY ANALYZERS, METERS & LOGGERS Optional Accessories

SENSOR TYPE	CURRENT RANGE		ACCURACY (TYPICAL)	TYPICAL Error On Φ at 50/60HZ	MAX Conductor Size	USED WITH MODEL	LIMITED RANGE IF USED WITH MODEL
SL261 **	100A	5 to 100Aac/bc	±4%	±0.5°	0.46"	PEL 102 PEL 103	8220 8230
Battery operated	10A	50mA to 10Aac/bc	±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

^{*} 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)
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



Data View[®]

Transient Report

Data Analysis and Reporting Software for Power Quality Meters

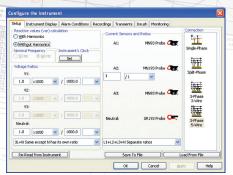




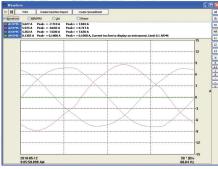


- Display and analyze real-time data on your PC
- Configure functions and parameters from your PC
- Customize views, templates and reports to your exact needs
- Create and store a complete library of configurations that can be uploaded as needed
- Zoom in and out and pan through sections of the graph 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



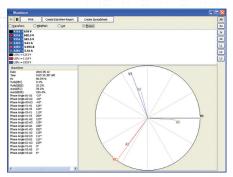
Clear and easy setup of all functions from one tabbed dialog box.



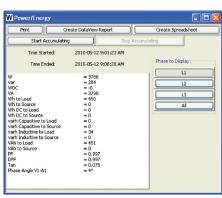
Display real-time waveforms by phase, parameter or total.



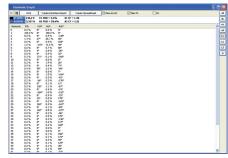
Display all harmonics from 1st to 50th in bargraph form for voltage, current and power.



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.



