



PowerPad® Model 8436

Cat. #2136.43

TRMS, 1000 Vrms AC/DC, 6500 Arms, frequency, transients, harmonics, energy, DataView® software, IP67

The PowerPad® III Model 8436 is a three-phase power quality analyzer that is easy-to-use, compact, and shock resistant. It enables technicians and engineers to measure and carry out diagnostics and power quality work on one-, two- or three- phase networks. Four voltage input terminals and four current input terminals are provided. It is IP67 waterproof rated when recording with cover closed.

Cat.#2136.43

Inputs	4 Voltage / 4 Current			
Sample Rate	256 per Cycle	12.8 kHz at 50 Hz	15.36 kHz at 60 Hz	
Specification	Range	Measurement Range	Resolution	Accuracy (Typical)
Volt				
Vrms (AC + DC)	1000 V P to N 2000 V P to P	(2 to 1000) V	0.1 V	±0.5 % Rdg + 200 mV
Vpk	1414 V	(2 to 1000) V	0.1 V	± 3 % Rdg + 2 V
Vrms Half Cycle	1000 V P to N 2000 V P to P	(2 to 1000) V	0.1 V	± 0.8 % Rdg + 1 V
Amps (accuracy excluding clamp accuracy)				
Amps (AC + DC)	SR193 & MR193 MN193 5 A MN193 100 A	(1 to 1000) A 5 mA to 5 A 100 mA to 100 A	0.1 A 1 mA 10 mA	± 0.5 % Rdg + 200 mA ± 0.5 % Rdg + 2mA ± 0.5% Rdg + 20 mA
AmpFlex& MiniFlex	Range 100 A Range 6500 A Range 10 kA	100 mA to 100 A (10 to 6500) A 10 A to 10 kA	10 mA (0.1 and 1) A 1 A	± 0.5 % Rdg + 3 0mA ± 0.5 % Rdg + 3 A ± 0.5 % Rdg + 3 A

For more details, download the datasheet or user manual at www.aemc.com

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • www.aemc.com

customerservice@aemc.com • techsupport@aemc.com

Apk	SR193 & MR193 MN193 5A MN193 100A	(1 to 1414) A 5 mA to 7.017 A 100 mA to 141.4 A	0.1 A 1 mA 10 mA	±1 % Rdg + 2 A ±1 % Rdg + 20 mA ±1 % Rdg + 200 mA
Apk AmpFlex & MiniFlex	Range 100 A Range 6500 A Range 10 kA	100 mA to 100 A (10 to 6500) A 10 A to 10 kA	1 A (0.1 and 1) A 1 A	± 3% Rdg + 600 mA ± 3 % Rdg + 5 A ± 3 % Rdg + 5 A
A Half Cycle	SR193 & MR193 MN193 5 A MN193 100 A	(1 to 1200) A 5 mA to 6 A 100 mA to 120 A	0.1 A 1 mA 10 mA	± 1 % Rdg + 1 A ± 1 % Rdg + 10 mA ± 1 % Rdg + 100 mA
Frequency	40 to 70 Hz		0.01	±0.01 Hz
Power				
Watts (VA, var) P-Q-S	Probes: AmpFlex, MiniFlex	(10 to 10) MW (10 to 10) MW	4 digits min 4 digits min	± 1 % Rdg ± 1.5 % Rdg
Power Factor (Cos Φ/DPF)		-1.000 to 1.000	0.001	± 1 ° for Φ, + 5 cts for cos Φ
Energy				
kWh (kVAh, kvarh) P-Q-S	(1 to 9,999,999) MWh (MVAh, Mvarh)			± 1 % Rdg
Harmonics	DC, 1 to 50			
Volts & Amp %	f r Absolute V Absolute A THD	(0.0 to 1500) % (0.0 to 100) % (0.0 to 1000) V (0.0 to 1000) A (0.0 to 999.9) %	0.1 % 0.1 % 0.1 V 0.1 A 0.1 %	± 2.5 % Rdg + 5 cts ± 2.5 % Rdg + 5 cts ± 2.5 % Rdg + 1 V ± 2% Rdg + 1 A ± 2.5 % Rdg + 5 cts
Phase Angle		(-179 to 180) °	1 °	± 1.5 ° + 1 °x (n/12.5)
Also display Energy loss, Flicker, Plt (2H), Pst (10min), Unbalance V% & A%				
General Features				
Programmable Alarm	Up to 40 types: up to 16,362 recorded max			
Transient Capture	Up to 210			
Snapshot	Up to 50 (screen BMP + all channels data)			

For more details, download the datasheet or user manual at www.aemc.com

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • www.aemc.com
customerservice@aemc.com • techsupport@aemc.com



Interface	Isolated USB, SD card, and Dataview software for real time data, configuration, and reporting included
Memory	SD card (SDHC compliant, not formatted) standard, for trend Data, Internal memory for In-Rush, transients and alarms
Display	Color TFT 320 x 240 (1/4 OFT) with graphic representation of system parameters and measurements
Real-Time Clock	Time and date stamp for Trend mode, Transient display, System Monitor and event capture
Power Supply	External from (110 to 1000) V DC to 440 Hz
Charging Time	6 h approx.
Battery Backup	Rechargeable 9.6 V NiMH 4000 mA battery pack
Battery Life	≥10 h when display ON
Dimensions (L x W x H)	(10.6 x 9.85 x 7.09) in (270 x 250 x 180) mm
Weight	8.16 lbs (3.7 kg)
Altitude Operating	2000 m (6560 ft)
Operating Temperature	(32 to 122) °F (0 to 50) °C
Storage Temperature	(-4 to 122) °F (-20 to 50) °C
IP Rating	IP67 per IEC 60529 when housing close and A196 sensor used
Safety	IEC/EN 61010-1 (1000 V CAT III-600 V CAT IV), IEC 1326-1 

For more details, download the datasheet or user manual at www.aemc.com

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • www.aemc.com
customerservice@aemc.com • techsupport@aemc.com

