



PowerPad[®] Model 8436

Cat. #2136.43

TRMS, 1000Vrms AC/DC, 6500Arms, 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.

Inputs	4 Voltage / 4 Current			
Sample Rate	256 per Cycle	12.8kHz at 50Hz	15.36kHz at 60Hz	
Specification	Range	Measurement Range	Resolution	Accuracy (Typical)
Volt				
Vrms (AC + DC)	1000V P to N 2000V P to P	2 to 1000V	0.1V	±0.5% Rdg + 200mV
Vpk	1414V	2 to 1000V	0.1V	±3% Rdg + 2V
Vrms Half Cycle	1000V P to N 2000V P to P	2 to 1000V	0.1V	±0.8% Rdg + 1V
Amps (accuracy excluding clamp accuracy)				
Amps (AC + DC)	SR193 & MR193 MN193 5A MN193 100A	1 to 1000A 5mA to 5A 100mA to 100A	0.1A 1mA 10mA	±0.5% Rdg + 200mA ±0.5% Rdg + 2mA ±0.5% Rdg + 20mA
AmpFlex & MiniFlex	Range 100A Range 6500A Range 10kA	100mA to 100A 10 to 6500A 10A to 10kA	10mA 0.1A & 1A 1A	±0.5% Rdg + 30mA ±0.5% Rdg + 3A ±0.5% Rdg + 3A
Apk	SR193 & MR193 MN193 5A MN193 100A	1 to 1414A 5mA to 7.017A 100mA to 141.4A	0.1A 1mA 10mA	±1% Rdg + 2A ±1% Rdg + 20mA ±1% Rdg + 200mA
Apk AmpFlex & MiniFlex	Range 100A Range 6500A Range 10kA	100mA to 100A 10 to 6500A 10A to 10kA	1A 0.1A & 1A 1A	±3% Rdg + 600mA ±3% Rdg + 5A ±3% Rdg + 5A


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

A Half Cycle	SR193 &MR193 MN193 5A MN193 100A	1 to 1200A 5mA to 6A 100mA to 120A	0.1A 1mA 10mA	±1% Rdg + 1A ±1% Rdg + 10mA ±1% Rdg + 100mA
Frequency	40 to 70Hz		0.01	±0.01Hz
Power				
Watts (VA, var) P-Q-S	Probes: AmpFlex, MiniFlex	10mW to 10MW 10mW to 10MW	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	1mWh to 9,999,999MWh (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 1000V 0.0 to 1000A 0.0 to 999.9%	0.1% 0.1% 0.1V 0.1A 0.1%	±2.5% Rdg + 5cts ±2.5% Rdg + 5cts ±2.5% Rdg + 1V ±2% Rdg + 1A ±2.5% Rdg + 5cts
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)			
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 110V to 1000V DC to 440Hz			
Charging Time	6 hours approx.			
Battery Backup	Rechargeable 9.6V NiMH 4000mA battery pack			
Battery Life	≥10hrs when display ON			
Dimensions (L x W x H)	10.6 x 9.85 x 7.09" (270 x 250 x 180mm)			
Weight	8.16 lbs (3.7kg)			
Altitude Operating	2000m (6560ft)			

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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 (1000V CAT III-600V CAT IV), IEC 1326-1 

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