



PowerPad[®] III Model 8333

Cat. #2136.10

TRMS, 1000Vrms/1200V_{DC}, 10kArms/5000A_{DC}, frequency, harmonics, energy, DataView[®] software

The PowerPad[®] III Model 8333 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 single- or three-phase networks. Three current and four voltage input terminals are provided. It is IEC 61000-4-30 Class B and safety rated to 600V CAT IV.

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Inputs	3 Voltage / 3 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	1mA 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 1,414A 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
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

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

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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 to 1	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	0.0 to 1500%	0.1%	±2.5% Rdg + 5cts
	r	0.0 to 100%	0.1%	±2.5% Rdg + 5cts
	Absolute V	0.0 to 1000V	0.1V	±2.5% Rdg + 1V
	Absolute A	0.0 to 1000A	0.1A	±2% Rdg + 1A
	THD	0.0 to 999.9%	0.1%	±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 10 types; 4,000 recorded max.			
Transient capture	Up to 51			
Snapshot	Up to 12 (screen BMP + all channels data)			
Interface	Isolated USB, SD card slot accessible under instrument battery for direct transfer to PC, 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	Rechargeable 9.6V NiMH battery pack, External charger			
Charging Time	90 to 264VAC (50/60Hz)	6 hours approx.		
Battery Life	>13hrs when display ON, 25hrs when recording with display OFF			
Dimensions (L x W x H)	9.8 x 7.9 x 2.6" (250 x 200 x 67mm)			
Weight	4.3lbs. (1.95kg)			
Altitude Operating	2000m (6560ft)			
Operating Temperature	32° to 108.5°F (0° to 42.5°C) ≤85% RH			
Storage Temperature	-4° to 158°F (-20° to 70°C) ≤75% RH without battery			
IP Rating	IP53 per IEC 60529			
Safety	IEC/EN 61010-1 (1000V CAT III-600V CAT IV), IEC 1326-1			



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