



## PowerPad® III Model 8333

Cat. #2136.10

TRMS, 1000Vrms/1200VDC, 10kArms/5000ADC, 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

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)

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<b>A Half Cycle</b>	SR193 &MR193 MN193 5A MN93 100A	1 to 1200A 5mA to 6A 100mA to 120A	0.1A 1mA 10mA	±1% Rdg + 1A ±1% Rdg + 10mA ±1% Rdg + 100mA
<b>Frequency</b>	40 to 70Hz		0.01	±0.01Hz
<b>Power</b>				
<b>Watts (VA, var) P-Q-S</b>	<b>Probes: AmpFlex, MiniFlex</b>	10mW to 10MW 10mW to 10MW	4 digits min 4 digits min	±1% Rdg ±1.5% Rdg
<b>Power Factor (Cos Φ/DPF)</b>		-1 to 1	0.001	±1° for Φ, +5 cts for cos Φ
<b>Energy</b>				
<b>kWh (kVAh, kvarh) P-Q-S</b>	1mWh to 9,999,999MWh (MVAh, Mvarh)			±1% Rdg
<b>Harmonics</b>	DC, 1 to 50			
<b>Volts &amp; Amp %</b>	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
<b>Phase Angle</b>		-179° to +180°	1°	±1.5° +1°x(n/12.5)
Also display Energy loss, Flicker, Plt (2H), Pst (10min), Unbalance V% & A%				
<b>General Features</b>				
<b>Programmable Alarm</b>	Up to 10 types; 4,000 recorded max.			
<b>Transient capture</b>	Up to 51			
<b>Snapshot</b>	Up to 12 (screen BMP + all channels data)			
<b>Interface</b>	Isolated USB, SD card slot accessible under instrument battery for direct transfer to PC, Dataview software for real time data, configuration and reporting included			
<b>Memory</b>	SD card (SDHC compliant, not formatted) standard, for trend Data, Internal memory for In-Rush, transients and alarms			
<b>Display</b>	Color TFT 320 x 240 (1/4 OFT) with graphic representation of system parameters and measurements			
<b>Real-Time Clock</b>	Time and date stamp for Trend mode, Transient display, System Monitor and event capture			
<b>Power Supply</b>	Rechargeable 9.6V NiMH battery pack, External charger			
<b>Charging Time</b>	90 to 264VAC (50/60Hz)	6 hours approx.		
<b>Battery Life</b>	>13hrs when display ON, 25hrs when recording with display OFF			
<b>Dimensions (L x W x H)</b>	9.8 x 7.9 x 2.6" (250 x 200 x 67mm)			
<b>Weight</b>	4.3lbs. (1.95kg)			
<b>Altitude Operating</b>	2000m (6560ft)			
<b>Operating Temperature</b>	32° to 108.5°F (0° to 42.5°C) ≤85% RH			

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<b>Storage Temperature</b>	-4° to 158°F (-20° to 70°C) ≤75% RH without battery
<b>IP Rating</b>	IP53 per IEC 60529
<b>Safety</b>	IEC/EN 61010-1 (1000V CAT III-600V CAT IV), IEC 1326-1 

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