



**Power Quality Meter Model 8220 (DISCONTINUED replaced by PEL102 Cat # 2137.51, PEL103 Cat #2137.52, PEL105 Cat # 2137.55/2137.59)**

PowerPad® Jr. Model 8220 (DISCONTINUED replaced by PEL102 Cat # 2137.51 , PEL103 Cat #2137.52 , PEL105 Cat # 2137.55/2137.59)

Cat.#2130.90

Inputs	1 Voltage / 1 Current			
Sample Rate	256 per Cycle	12.8kHz at 50Hz	15.36kHz at 60Hz	
Specification	Range	Measurement Range	Resolution	Accuracy (Typical)
<b>Volt</b>				
Vrms (AC + DC)	600V	6 to 600V	0.1V	±0.5% Rdg + 2cts
Vpk	850V	6 to 850V	0.1V	±1% Rdg + 5cts
Vrms Half Cycle	600V	6 to 600V	0.1V	±0.8% Rdg + 5cts
Volt DC	600V	6 to 600V	0.1V	±1% Rdg + 5cts
<b>Amps (accuracy excluding clamp accuracy)</b>				
Amps (AC + DC)	Current probes	1.2 x Inom	0.1A & 1A	±0.5% Rdg + 2cts
AmpFLEX & MiniFlex	Range 6500A	10 to 9190A	0.1A & 1A	±1% Rdg + 1A
Apk	Current probes	1.7 x Inom	0.1A & 1A	±1% Rdg + 1A
AmpFLEX & MiniFlex	Range 6500A	10 to 9190A	0.1A & 1A	±1% Rdg + 1A
A Half Cycle	Current probes	1.2 x Inom	0.1A & 1A	±1% Rdg + 5cts
AmpFLEX & MiniFlex	Range 6500A	10 to 6500A	0.1A & 1A	±1.5% Rdg + 4A
DC current	MR193 probe	1 to 1700A	0.1A & 1A	±1% Rdg + 1A
Frequency	40 to 69Hz		0.01Hz	±1ct
<b>Power</b>				
Watts (VA, var) P-Q-S		0W to 9999kW (kVA, kvar)	4 digits minimum	±1% Rdg cosΦ ≥ 0.8
Power Factor (Cos Φ/DPF)		-1 to 1	0.001	±1.5% Rdg cosΦ ≥ 0.5

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

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Energy				
kWh (kVAh, kvarh) P-Q-S		0.1Wh to 9999MWh (kVAh, kvarh)		±1% Rdg
Harmonics		DC, 1 to 50		
Volts >50V & Amps Inom ÷ 10	f	0.0 to 999.9%	0.1%	±1% Rdg + 5cts
Volts >50V & Amps Inom ÷ 10	r	0.0 to 99.9%	0.1%	±1% Rdg + 5cts
K Factor		1 to 99.99	0.01	±1% Rdg + 5cts
Displacement Factor (DPF)		-1 to +1	0.001	±1° Rdg + 5cts
Rotation Speed		6 to 120kRPM	0.1 to 100RPM	±0.5% Rdg
Temperature		-328.0 to 1562°F (-200.0 to 850°C)	0.1 to 1°F (0.1°C)	±1.8% Rdg + 2°F (±1% Rdg + 1°C)
Resistance		0 to 2000Ω	1Ω	±1.5% Rdg + 2cts
General Features				
Phase rotation	Yes			
Inrush Current	Yes			
Snapshot	Up to 9 photographs (screen BMP + all channels data)			
Interface	Isolated USB, for direct transfer to PC. Dataview software for real time data, configuration and reporting included			
Memory	Flash memory for screen captures and Inrush current			
Display	Large LCD			
Power Supply	6 x AA alkaline batteries ≥40Hrs			
Dimensions (L x W x H)	8.3 x 4.3 x 2.4" (211 x 108 x 60mm)			
Weight	1.94 lbs (880g)			
Altitude Operating	2000m (6560ft)			
Operating Temperature	32° to 122°F (0°C to 50°C) ≤75% RH			
Storage Temperature	-4° to 158°F (20°C to +50°C) ≤85% RH			
IP Rating	IP54 per IEC 60529			
Safety	IEC/EN 61010-1 (600V CAT III), IEC 1326-1			



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