



## Power & Energy Logger Model PEL 103

**Cat. #2137.62**

**Voltage, current, power, harmonics, energy, multiple communication options (USB, Ethernet, Bluetooth), DataView® software**

The PEL 103 is a low cost, simple to use, one, two (split phase) and three phase power/energy data logger. This product is ideal for electricians, engineers and contractors doing work in the area of building and system monitoring and upgrades, as well as residential and overall energy audits. All vital energy data is easily measured, recorded, and analyzed. Reports can be generated with confidence with minimal configuration time and effort (Standard and Customizable Reports supplied).

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Inputs	3 Voltage / 3 Current: calculation of neutral current			
Sample Rate	128 per Cycle	6.4kHz at 50Hz	7.68kHz at 60Hz	
Specification	Range	Measurement Range	Resolution	Accuracy (Typical)
<b>Volt</b>				
Vrms	1000V P to N	10 to 1000V	0.1V	±0.2% Rdg + 0.2V
Urms	1000V P to P	17 to 1700V	0.1V	±0.2% Rdg + 0.4V
<b>Amps @ 50 and 60Hz</b>				
Amps (1V nominal) (excluding clamp accuracy)	Probe dependent	0.2% < I < 120% Inom	Probe dependent	±0.2% Rdg + 0.02% Inom
AmpFLEX & MiniFlex (including sensor accuracy)	Range 100A Range 400A Range 2kA Range 10kA	200mA to 120A 5 to 440A 50 to 2400A 400A to 12kA	1mA 0.1A 0.1A & 1A 1A	±1.2% Rdg + 50mA ±1.2% Rdg + 0.2A ±1.2% Rdg + 1A ±1.2% Rdg + 5A
Frequency		42.5 to 69Hz	0.01Hz	±0.1Hz
<b>Power</b>				
Watts (VA, var) P-Q-S		10W to 10GW / 10var to 10Gvar / 10VA to 10GVA	4 digits min	±0.5% Rdg + 0.005% Pnom
Power Factor (Cos Φ/DPF)		-1 to 1	0.001	±0.05
<b>Energy</b>				
kWh (kVAh, kvarh) P-Q-S	Up to 4EWh / 4Evarh / 4 EVAh (E = 1018 )			±0.5% Rdg

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

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Harmonics	DC, 1 to 50			
Volts & Amp %		0.01 to 655.0%	0.01%	±1% Rdg from 1 to 25
THD		0.00 to 655.0%	0.01%	±1% Rdg
<b>General Features</b>				
Case	Design Rugged, shock proof with integrated protective holster, IP54 not included terminals. Shock and vibration IEC61010			
Interface	Isolated USB, Bluetooth, and Ethernet, SD card for direct transfer to PC. Dataview software for real time data, configuration and reporting included			
Memory	8GB SD card (SDHC compliant, FAT32 formatted) 32GB max			
Display	LCD with backlight			
Real-Time Clock	Time and date stamp for Trend mode			
Power	AC 110V/230V 50/60Hz 15VA; Battery backup when power OFF, 60 minutes typical			
Dimensions (L x W x H)	10.08 x 4.92 x 1.46" (256 x 125 x 37mm)			
Weight	2.2lbs (1kg)			
Altitude Operating	2000m (6560ft)			
Operating Temperature	32 to 108.5°F; (0°C to +42.5°C) from 10 to 85% RH			
Storage Temperature	-4 to 122°F; (-20°C to +50°C) from 0 to 75% RH with battery pack			
Electro-Magnetic-Compatibility (EMC)	EN 61326-1 for emission and immunity			
IP Rating	IP54 per IEC 60529			
Safety	IEC/EN 61010-1 (1000V CAT III-600V CAT IV), IEC 1326-1			



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