



Power & Energy Logger Model PEL 105

Cat. #2137.57 & #2137.59

Voltage, current, power, harmonics, energy, multiple communication options (USB, Ethernet, Bluetooth, Wi-Fi, Android™ app), DataView® software, waterproof IP67

Monitors and records power, energy, cost, and harmonics. Waterproof case (IP67) designed for outdoor use/pole mounting. Bluetooth and Wi-Fi wireless communication provides option to work a safe distance from dangerous voltages and currents. Includes DataView® for configuration, viewing real-time data, and downloading data for report generation. Android™ app available to configure, view, and capture data wirelessly. Designed for electricians, engineers and contractors.

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Inputs	5 Voltage / 4 Current			
Sample Rate	128 per Cycle	6.4kHz at 50Hz	7.68kHz at 60Hz	
Specification	Range	Measurement Range	Resolution	Accuracy (Typical)
Volt				
Vrms	1000V P to N	10 to 1000V	0.1V	±0.2% Rdg +0.2V
Vrms	1000V E to N	10 to 1000V	0.1V	±0.2% Rdg +0.2V
Urms	1000V P to P	17 to 1000V	0.1V	±0.2% Rdg + 0.4V
Amps @ 50 and 60Hz				
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
Power				
Watts (VA, var) P-Q-S		20W to 20GW / 20var to 10Gvar / 20VA to 10GVA	4 digits min	±0.5% Rdg + 0.005% Pnom
Power Factor (Cos Φ/DPF)		-1 to 1	0.001	±0.05
Energy				
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

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • www.aemc.com

customerservice@aemc.com • techsupport@aemc.com

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
General Features				
Case	Design Rugged field case			
Interface	Isolated USB, Bluetooth, and Ethernet, Wi-Fi, 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 4.2 x 3.3" (107 x 84mm)			
Real-Time Clock	Time and date stamp for Trend mode			
Power	Phase to phase or phase to neutral 100 to 1000VAC or external power pack 110V/230V 50/60Hz 15VA; Battery backup when power OFF, 60 minutes typical			
Dimensions (L x W x H)	9.65 x 10.6 x 7.1" (245 x 270 x 180mm)			
Weight	8.9 lbs (4kg)			
Altitude Operating	2000m (6560ft)			
Operating Temperature	32° to 108.5°F; (0° to +42.5°C) from 10 to 85% RH			
Storage Temperature	-4° to 122°F; (-20° to +50°C) from 0 to 75% RH with battery pack			
Electro-Magnetic-Compatibility (EMC)	EN 61326-1 for emission and immunity			
IP Rating	IP 67 per IEC 60529			
Safety	IEC/EN 61010-1 (1000V CAT IV Pol 4)			



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