AEMC® INSTRUMENTS
CHAUVIN ARNOUX GROUP

Summary Sheet

Power & Energy Logger Model PEL 52 (w/ LCD, w/ (2) MA193-10-BK)

Cat. #2137.69

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

The PEL 52 is aan affordable and user-friendly power/energy data logger, suitable for both single and split-phase (two-phase) applications. It is specifically designed for electricians, engineers, and contractors working in residential areas.

Cat.#2137.69

Inputs	2 Voltage / 2 Current (Split Phase)			
Sample Rate	128 per Cycle: 6.4 kHz at 50 Hz / 7.68 kHz at 60 Hz			
Specification	**Range**	**Measurement Range**	**Resolution**	**Accuracy (Typical)**
Volt				
Vrms	690 V P to N	(10 to 690) V	0.1 V	±0.2 % Rdg + 0.2 V
Urms	690 V P to P	(10 to 690) V	0.1 V	±0.2 % Rdg + 0.4 V
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
Frequency		(42.5 to 69) Hz	0.01 Hz	±0.1 Hz
Power				
Watts (VA, var) P-Q-S PF PF=1		V = (100 to 690) I - (5 to 120) % Inom	4 digits min	±0.5 % Rdg + 0.005 % Pnom
Power Factor (Cos Φ/DPF)		-1 to 1	0.01	±0.05
Energy				
kWh (kVAh, kvarh) P-Q-S	V = (100 to 690) I - (10 to 120) % Inom			±0.5% Rdg
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				

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

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Case	Compact and rugged. Shock and vibration IEC 61010
Communication	Wi-Fi (access point and hot spot)
Memory	8 GB SD card (SDHC compliant, FAT32 formatted) 32 GB max
Display	LCD with blue backlight
Real-Time Clock	Time and date stamp for Trend mode
Power	From phase 1 (90 to 600) V battery backup when power OFF, 60 min typical with Wi-Fi enable
Dimensions (L x W x H)	(4.92 x 2.58 x 1.28) in (125 x 65.5 x 32.4) mm
Weight	7.05 oz (200 g)
Altitude Operating	2000 m (6560 ft)
Operating Temperature	(32 to 108.5) °F; (0 to +42.5) °C from (10 to 85) % RH
Storage Temperature	(-40 to 122) °F; (-40 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 (600 V CAT III)

The following Ampflex/Miniflex uncertainties include PEL uncertainties for AC current values. For Power/Energies and other quantities, the following uncertainties shall be added to the uncertainties of PEL52

AmpFlex A193	Range 300 A	500 mA to 10 A	0.1 A	±1.2 % Rdg + 0.2 A
AmpFlex A196	Range 300 A	(10 to 360) A	0.1 A	±1.2 % Rdg + 0.2 A
AmpFlex A193	Range 3000 A	(1 to 100) A	0.1 A	±1.2 % Rdg + 1 A
AmpFlex A196	Range 3000 A	(100 to 3600) A	0.1 A	±1.2 % Rdg + 1 A
MiniFlex MA193	Range 300 A	500 mA to 10 A	0.1 A	±1 % Rdg + 0.2 A
MiniFlex MA194	Range 300 A	(10 to 360) A	0.1 A	±1 % Rdg + 0.2 A
MiniFlex MA193	Range 3000 A	(1 to 100) A	0.1 A	±1 % Rdg + 1 A
MiniFlex MA194	Range 3000 A	(100 to 3600) A	0.1 A	±1 % Rdg + 1 A

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