

AEMC Power & Energy Logger

- 1 ϕ , dual (split-phase) & 3 ϕ (Y, Δ) power & energy loggers
- Use on 50Hz, 60Hz, 400Hz & DC distribution systems
- Current measurements from 200mA to 10,000A
- Power measurements: VA, W and var
- Energy measurements: VAh, Wh (source/load indication) & varh (including quadrant indication)
- Power Factor (PF), Cos (ϕ), Tan (Φ) and DPF
- Total Harmonic Distortion (THD) for voltages & currents
- Harmonics up to the 50th order for 50/60Hz & 7th order for 400Hz
- Simultaneous RMS measurements of each phase at 128 samples/cycle and DC
- Storage of measured and calculated values on SD or SDHC card
- Current & voltage ratios configured to external PT & CT
- USB, LAN, and Bluetooth communication
- 3 phases shown on bright, 4 line LCD display (PEL103)
- Includes DataView® software for data storage, real-time display, analysis & report generation



PEL103

* with supplied probe

Each kit includes a PEL Logger, classic tool bag, 3 mini-flex MA193-10-BK current sensors, 5ft USB cable, 4 black test leads w/alligator clips, Multifix mounting system, power cord, 2GB SD card with card reader, DataView software & manuals.

ORDERING INFO

AE/2137.52 PEL103 kit w/LCD display
AE/2137.51 PEL102 kit (no display)

NEW

SPECIFICATIONS

Sampling Frequency	128 samples/cycle @50/60Hz, 16/cycle @400Hz
Data Storage Rate	1 per second
Demand Period	1/2/3/4/5/6/10/12/15/20/30/60 minutes, user selectable
Recorded Parameters	V, I, W, VA, var, PF, Tan, Wh, Vah, varh, THD (V and I), Individual harmonics (1 to 50 per phase), Crest Factor (CF), Cos ϕ / DPF
PT Ratios	Programmable from 50V to 65,000V
CT Ratios	Programmable from 1:1 to 25,000:1 *
Communication Ports	USB 2.0, Ethernet, Wireless Bluetooth Class 1
Operating Temperature	32° to 122°F (0° to 50°C) / up to 85% RH
External Supply	110V/250V (10%) @ 50/60Hz; 400Hz
Back-Up Power	8.4V NiMH battery pack, \approx 5 hours recharge time
Battery Life	Up to 30 minute ride through upon power loss
Dimension/Weight	10.08 x 4.92 x 1.46" (256 x 125 x 37mm) / <1kg
Safety Rating	1000V CAT III / 600V CAT IV, Pollution Degree 2
Measurements:	
Single-Phase RMS Volts	0.1 to 1000V (50/60Hz), 600V (400Hz)
ϕ to ϕ RMS Volts	0.1 to 1700V (50/60Hz), 1200V (400Hz)
DC Volts	0.1 to 1000V
RMS Current*	1mA to 10000A (50/60Hz), 5000A (400Hz)
Power (P, Q, S)	-2 to 2GW, -2 to 2 Gvar, 0 to 2 GVA
Energy (EP, EQ, ES)	0 to 4 x 10 ¹⁸ (Wh, varh, Vah)
Power Factor	-1 to +1

Extech TRMS Data Logger

- Simultaneously measure two AC Voltage inputs or two AC Current inputs or one AC Voltage & one AC Current input
- Programmable sample rate from 1 second to 24 hours
- Store up to 256,000 readings
- LCD indicates time/date, present readings and Min/Max
- USB interface
- Readings can be analyzed using the included software or exported to a spreadsheet



SPECIFICATIONS

AC Current	10 to 200A
AC Voltage	10 to 600V
Resolution	0.1A or 0.1V
Accuracy	\pm (2% rdg \pm 1A), \pm (2% rdg \pm 1V)
Memory	256,000 points
Sampling Rate	1 second to 24 hours
PC Interface	USB, includes software
Power	3.6V Lithium battery
Dimensions	4.5 x 2.5 x 1.3" (114 x 63 x 34mm)

Complete with two Current sensor modules, two Voltage sensor modules, two sets of test leads, two sets of alligator clips, USB cable, Windows compatible software, universal AC Adaptor, 4 AAA batteries and two memory 2032 button batteries.

ORDERING INFORMATION

EX/DL160 Dual Input True RMS AC Voltage/Current Datalogger

AEMC AC Current Data Logger

- Two integral MiniFlex® flexible current probes measure from 0.5A to 1000A
- Dual range 100/1000A
- Programmable storage rates from 8 every second to 1 every day
- 3 user selectable storage modes
- Stores up to 240,000 measurements in non-volatile memory
- Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display logger status



SPECIFICATIONS

Inputs	Two captive MiniFlex® AC current flexible sensors
Range	0.5 to 100AAC, 5 to 1000AAC
Resolution	0.1A
Basic Accuracy	\pm 1% of Reading, 50/60Hz
Sample Rate	64 samples/cycle
Storage Rate	Programmable from 125ms to 1 day
Record Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)
Record Length	15 minutes to 8 weeks, programmable using DataView
Memory	Non-volatile storage of 240,000 measurements (512kB).
Communications	Optically isolated USB 2.0
Protection	IP40
Rating	600V CAT IV, 1000V CAT III
Operating Temp.	14° to 122°F (-10° to 50°C), <85% RH
Dimensions	4.95 x 2.75 x 1.28" (136 x 70 x 32mm) w/o Sensors
Sensor/Cable	Sensor: 6" (152mm) / Cable: 6 ft (2m)

* In XRM, each time the memory fills, every other of the oldest data samples is discarded to make room for new samples.

ORDERING INFORMATION

AE/2126.37 Simple Logger® II Model ML912 with two mini-flex probes, USB cable, batteries & DataView software