

AEMC®'s New & Improved Single/ Three-Phase Power & Energy Loggers Models PEL 102 & PEL 103



AEMC's PEL 100 Series has many up-to-date features demanded by present market conditions for energy and power consumption monitoring and recording.

The PEL 100 Series are low cost, simple to use, single, dual (split phase) and three phase (Y, Ø) power and energy loggers. There are two models available, Model PEL 102 (no display) or Model PEL 103 (with a backlit digital display).

These products are ideal for electricians, engineers and contractors doing work in the area of building and system monitoring and upgrades, including monitoring compliance to article 220.87 of the

NEC, as well as residential and overall energy audits. All vital energy data is easily measured, recorded, and analyzed. Reports can be generated with minimal configuration time and effort.

The instrument's design enables it to be installed inside a load center panel (including the current sensors) and still allow the door to close on most panels. The PEL 100 series offers all the essential functions for logging power/energy data from most electrical power networks in use today across the world (17 network set-ups provided).

The PEL 100 series measure and record three voltage and three current inputs,

Watts, VARS, VA and Energy (kWh and kVA). Power Factor (PF), Displacement Power Factor (DPF), Crest Factor, Harmonics out to the 50th, Frequency and THD are calculated and recorded as well.

Energy costs can be calculated and displayed quickly and easily by inputting the unit cost for a kilowatt hour into the software. Data is stored on a removable SD card. The included DataView® software provides the ability to view data from several hundred PEL 100 series instruments on a local network or over the internet allowing the user to evaluate energy usage locally or from anywhere in the world.

Continued on page 22

NEW FEATURES:

- Optional Adapter allows the PEL 102 or PEL 103 to be powered by one of the line voltage inputs it is measuring or phase to phase inputs in the absence of a neutral conductor
- ETL approval with US and Canadian riders
- Ability to configure the PEL 103 from the front panel using the configuration mode which was originally only available through DataView® software
- Availability of an Android™ App for a smartphone or tablet to configure, view and capture data wirelessly through the Bluetooth communication which also provides the ability for the operator to stay at a safe distance from dangerous voltages and currents
- Ability to create DataView® reports from the one second data parameters (only the aggregate data was available previously)
- Optional J93-BK AC/DC Current Probe measures from 50 to up to 5000 Amps DC and 50 to 3500AAC

- View data in real-time for up to 6 units at the same time
- Ability to set up to 8 times of use cost calculations

OTHER IMPORTANT FEATURES:

- Measurement of RMS voltages and currents at 128 times per cycle and stored every second
- Energy measurements of VAh, Wh (source/load indication) and varh (including quadrant indication)
- Calculation of the cos Displacement Power Factor (DPF) and the Power Factor (PF) stored every second
- Calculation of Total Harmonic Distortion (THD)
- Measurement of the DC volts, amps and power
- Measurement of 400Hz volts, amps and power

This simple to use yet comprehensive power and energy logger will be a valu-



able asset to your power and energy monitoring and analysis needs. We feel this product is so important that we dedicated its own web page, view it for yourself at www.pel100.us or if you would like to watch online go to www.YouTube.com and type in AEMC power and energy loggers. □