

AEMC[®] Introduces Two NEW Single/Three-Phase

Power & Energy Data Loggers Models PEL 102 & PEL 103



for logging power and energy data from most electrical power networks in use today across the world. The PEL 100 series power and energy loggers measure and record up to three voltage inputs and three current inputs, Watts, VARS, VA and Energy (kWh and kVA). Power Factor (PF), Displacement Power Factor (DPF), Crest Factor, Frequency and THD are calculated and recorded as well. Individual harmonic % information from 1 to the 50th harmonic are recorded at the operator's choice. All variables are recorded and stored at a one second interval along with

user selectable demand intervals from 1 to 60 minutes. Energy costs can be calculated and displayed quickly and easily by simply inputting the unit cost for a kilowatt hour into the software. Data is stored on a removable SD card. Data can be retrieved using a USB cable, Bluetooth and/or the Ethernet (local or internet) connection or by transporting the SD card back to a PC. The comprehensive DataView[®] software (included) 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 in a department or facility basis or anywhere in the world. DataView[®] allows measurements to be viewed in real-time on a PC and stored data to be downloaded for analysis and report generation. This simple to use yet comprehensive power and energy logger will be an invaluable asset to your power and energy monitoring and analysis needs. For more information visit www.pel100.us. □

The PEL 100 series is a low cost, simple to use, single, two (split phase) and three-phase (Y, Δ) power and energy data logger. It is available in two models, Model PEL 102 (no display) or Model PEL 103 (with a backlit digital display).

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 and with minimal configuration time and effort.

The instrument's design enables it to be installed inside a load center panel (including the current sensors) allowing the door to close on most panels. The PEL 100 series offers all the essential functions

FEATURES:

- Low-cost, compact, easy-to-use, single-, dual- (split-phase) and three-phase (Y, Δ) power and energy data logger
- Designed to work in 1000V CAT III and 600V CAT IV environments and fits in many distribution panels
- Measurement of RMS voltages and currents at 128 times per cycle; stored every second
- Measurement of VAh, Wh and varh energy values (total and per phase) per second with source/load indication
- Calculation of the $\cos \phi$ Displacement Power Factor (DPF) and the Power Factor (PF) stored every second
- Calculation of Total Harmonic Distortion (THD)
- Measurement, calculation and display of the harmonics up to the 50th order for 50/60Hz and 7th order for 400Hz
- Measurement of the DC quantities
- Electrical network quantities are stored on a removable SD card or SDHC card
- Automatic recognition of the connected current sensors
- Includes DataView[®] software for data storage, real-time display, analysis and report generation with pre-defined or custom templates.
- Versatile communication interfaces choice built-in (USB, Ethernet, Bluetooth[®])