

# POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS

## PEL 100 SERIES



### MODEL PEL 102

*Monitor your energy usage and costs locally or from anywhere in the world!*



### FEATURES

- Simple-to-use, single-, dual- (*split-phase*) and three-phase (Y, Δ) power & energy loggers
- Designed to work in 1000 V CAT III and 600 V CAT IV environments and fits in many distribution panels
- Power measurements: kVA, kW and kvar
- Energy measurements: kVAh, kWh (*source, load*) and kvarh (*quadrant indication*)
- Updated features in DataView® software for configuring real-time communication with a PC and report generation with pre-defined or user defined templates
- 8 GB SD card supplied, can be upgraded up to 32 GB
- USB, LAN, Ethernet and Bluetooth® (*Class 1 wireless communication, up to 300 ft away*)
- Satisfies the monitoring requirements of NEC Code 220.87
- Power adapter allows the PEL 102 to be powered from a phase measurement input
- Provides all the necessary functions for power and energy data logging for (50, 60, 400) Hz and DC distribution systems
- Automatic recognition of the connected current sensors/probes
- Magnetic case allows for mounting inside power panels

### PRODUCT INCLUDES

**PEL 102 KIT**  
**CAT. #2137.51 (SHOWN)**

Small classic tool bag, (3) MiniFlex® MA193-10-BK sensors, 5 ft USB cable, (4) black test leads and alligator clips, 5 ft 115 V power cord, (12) color-coded ID markers, safety and compliance sheets, 8 GB SD card with USB SD card reader, printed quick start guide, and USB drive with DataView® software and user manual.



### ACCESSORIES

**CAT. #2137.90**

Adapter – 600 V CAT III Power to Phase Adapter for use with Models PEL 102 & PEL 103

**\*ADAPTER SOLD SEPARATELY**

**SEE PAGE 130-131 FOR MORE OPTIONAL ACCESSORIES**



### ANDROID™ APP AVAILABLE FOR PEL 102, 103 & 105

- Configure measurements and recordings
- Display data in real-time
- For use on devices with an Android™ platform
- **NEW** software sensors providing all comprehensive and instantaneous motors electrical parameters such as rotation speed, efficiency and torque



| CAT. #  | DESCRIPTION   |
|---------|---|
| 2137.51 | Power & Energy Logger Model PEL 102 (No LCD, w/(3) MA193-10-BK Sensors) |
| 2137.61 | Power & Energy Logger Model PEL 102 (No LCD, No Sensors)                |

# POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS

## POWER & ENERGY LOGGERS PEL 100 SERIES

| MODELS  | PEL 102, PEL 103 & PEL 105   |  |                    |                                |
|---|--|--|--------------------|--------------------------------|
| <b>GENERAL</b>  |  |  |                    |                                |
| Sampling Frequency  | 128 samples per cycle; (50 / 60) Hz (16 samples / cycle 400 Hz)  |  |                    |                                |
| Data Storage Rate   | 1 per second (200 ms also available on PEL 105)  |  |                    |                                |
| Demand Period Storage Rate  | User selectable (1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30 and 60) min  |  |                    |                                |
| Recorded Parameters<br>(Single- and Poly-Phase)   | V, I, W, VA, var, PF, Tan, Wh, VAh, varh, THD (V and I), Individual harmonics (from 1 through 50 per phase); Crest Factor (CF), Cos $\phi$ / DPF |  |                    |                                |
| Event Log   | Tracks and records status changes and error messages along with recorded data  |  |                    |                                |
| Front Panel Indicator LEDs  | Bluetooth® active, recording in progress, phase connection reversal, overload, battery charging and SD card status                               |  |                    |                                |
| Storage Capacity  | 8 GB SD card included / SD cards up to 32 GB formatted FAT32 are supported   |  |                    |                                |
| Voltage Input   | PEL 102 / 103: 3 input channels / PEL 105: 4 input channels via 4 mm safety banana jacks   |  |                    |                                |
| Current Input   | PEL 102 / 103: 3 input channels<br>PEL 105: 4 input channels via custom 4 pin jacks that accept AEMC® Instruments probes and sensors             |  |                    |                                |
| <b>ELECTRICAL</b>   |  |  |                    |                                |
| <b>VOLTAGE MEASUREMENT</b>  |  | RANGE  | RESOLUTION*        | ACCURACY*                      |
| (50 / 60) Hz  |  | (42.5 to 69) Hz  | –                  | ± 0.1 Hz                       |
| Single-Phase RMS Voltages   |  | (10 to 1000) Vrms  | 0.1 V              | ± 0.2 % Reading ± 0.2 V        |
| Phase-to-Phase RMS Voltages   |  | PEL 102 / 103: (17 to 1700) Vrms<br>PEL 105: (17 to 1000) Vrms   | (0.1 to 1) V       | ± 0.2 % Reading ± 0.4 V        |
| 400 Hz  |  | (340 to 460) Hz  | –                  | –                              |
| Single-Phase RMS Voltages   |  | (10 to 600) Vrms   | 0.1 V              | ± 1 % Reading ± 1 V            |
| Phase-to-Phase RMS Voltages   |  | PEL 102 / 103: (17 to 1200) Vrms<br>PEL 105: (17 to 600) Vrms  | (0.1 to 1) V       | ± 1 % Reading ± 1 V            |
| DC  |  | (100 to 1000) V  | 0.1 V              | ± 1 % Reading ± 3 V (typical)  |
| PT Ratios   |  | Programmable from (50 to 650,000) V  | –                  | (0.01 to 0.1) V                |
| <b>CURRENT MEASUREMENT</b>  |  | A193 A*** (PEL 102 / 103)  | 196 A*** (PEL 105) | –                              |
| Nominal range for current probes supplied with kit.<br>(See chart on Pages 44 to 46 for other probes) |  | 200 mA to 12,000 A   |                    | –                              |
| CT Ratios   |  | Programmable from 1:1 to 25,000:1 (probe dependent)  |                    |                                |
| <b>POWER MEASUREMENTS</b>   |  | RANGE  | RESOLUTION*        | ACCURACY*                      |
| Active Power (P)*   |  | (-2 to 2) GW   | 0.001 W            | ± 0.5 % Reading ± 0.005 % Pnom |
| Reactive Power (Q)*   |  | (-2 to 2) Gvar   | 0.001 var          | ± 1 % Reading ± 0.01 % Qnom    |
| Apparent Power (S)*   |  | (0 to 2) GVA   | 0.001 VA           | ± 0.5 % Reading ± 0.005 % Snom |
| Power Factor  |  | -1 to 1  | 0.001              | ± 0.05                         |
| Tangent $\phi$ (active / reactive power ratio)  |  | -3.2 to 3.2  | 0.001              | ± 0.02                         |
| <b>ENERGY MEASUREMENTS</b>  |  | RANGE  | RESOLUTION*        | ACCURACY*                      |
| Active Energy (EP)  |  | 4 EWh  | 1 Wh               | ± 0.5 % Reading                |
| Reactive Energy (EQ)  |  | 4 Evarh  | 1 varh             | ± 2 % Reading                  |
| Apparent Energy (ES)  |  | 4 EVAh   | 1 VAh              | ± 0.5 % Reading                |
| THD   |  | ± 655 %  |                    |                                |
| Individual Harmonics  |  | 1 to 50 displayed in percentage; 1 to 7 at 400 Hz  |                    |                                |
| External Supply   |  | 110 / 250 V (10 %) @ (50 / 60) Hz; 400 Hz  |                    |                                |
| Power From Phase Measurement  |  | PEL 102 / 103: Requires optional 600 V Power Adapter / PEL 105: Internal up to 1000 V <sub>ac</sub>  |                    |                                |
| Back-Up Power Supply / Charge Time  |  | Rechargeable 8.4 V NiMH battery pack / Approximately 5 h   |                    |                                |
| Battery Life  |  | 30 min minimum, 60 min typical   |                    |                                |
| <b>MECHANICAL</b>   |  |  |                    |                                |
| Communication   |  | USB 2.0, Ethernet (RJ45), Wireless Bluetooth® Class 1 **/ Wi-Fi (PEL 105)  |                    |                                |
| Dimension / Weight  |  | PEL 102 / 103: (10.08 x 4.92 x 1.46) in (256 x 125 x 37) mm / 2.20 lb (1 kg)<br>PEL 105: (9.8 x 7.8 x 2.6) in (249 x 198 x 66) mm / 8.8 lb (4 kg)    |                    |                                |
| Case  |  | Double insulated, rubber over-molded (PEL 102 & 103 only), polycarbonate UL94 V1 rated   |                    |                                |
| Display Type for Models PEL 103 & 105   |  | (2.63 x 2.16) in (67 x 55) mm, four line, monochrome, backlit LCD with adjustable brightness and contrast  |                    |                                |
| <b>ENVIRONMENTAL / SAFETY</b>   |  |  |                    |                                |
| Operating Temperature / Relative Humidity   |  | PEL 102 / 103 / 105: (32 to 108.5) °F (0 to 42.5) °C / up to 85 % RH   |                    |                                |
| Storage Temperature   |  | (-4 to 122) °F (-20 to 50) °C with batteries; (-4 to 158) °F (-20 to 70) °C without batteries  |                    |                                |
| Safety Rating / CE Rating   |  | PEL 102 / 103: Complies with IEC 61010-1, and IEC 61010-2-030 for 1000 V CAT III / 600 V CAT IV<br>1000 V CAT IV (PEL 105), Pollution Degree 2 / Yes |                    |                                |
| Ingress Protection  |  | PEL 102 / 103: IP54 non operating / PEL 105: IP67 with cover closed  |                    |                                |

Consult factory for NIST Calibration prices.

\* Maximum value is current probe dependent.

\*\* Computers with Class II Bluetooth® will restrict range to 40 ft; Computers without Bluetooth® will require a Class I or Class II Bluetooth® radio adapter.

\*\*\* Maximum current reduced by a factor of 2 for 400 Hz fundamental frequency.



# POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS

## OPTIONAL ACCESSORIES

| MODEL  | MAX CONDUCTOR SIZE                     | ACCURACY (TYPICAL) | TYPICAL ERROR ON $\Phi$ AT (50 / 60) HZ | CURRENT RANGE                      | USED WITH MODEL   | CAT. #                    |
|--|--|--------------------|---|------------------------------------|---|---------------------------|
| <b>MiniFlex® Model MA193-10-BK* &amp; MiniFlex® Model MA193-14-BK* &amp; MiniFlex® Model MA194-24-BK*</b><br><br><b>10, 14 &amp; 24 in Sensor</b> | 2.75 in<br>(70 mm)<br>(10 in sensor)   | $\pm 1\%$          | $0.5^\circ$                             | 100 mA to 12,000 Aac <sup>®</sup>  | PEL 52<br>PEL 102<br>PEL 103<br>PEL 105<br>8333<br>8336<br>8436<br>8345 | 2140.48<br>(10 in sensor) |
|  | 3.94 in<br>(100 mm)<br>(14 in sensor)  | $\pm 1\%$          | $0.5^\circ$                             |                                    |   | 2140.50<br>(14 in sensor) |
|  | 7.64 in<br>(194 mm)<br>(24 in sensor)  | $\pm 1\%$          | $0.5^\circ$                             |                                    |   | 2140.80<br>(24 in sensor) |
| <b>AC / DC Current Probe Model MR193-BK</b><br>  | 1.6 in<br>(41 mm)                      | $\pm 2.5\%$        | $-0.80^\circ$                           | (1 to 1000) AAC<br>(1 to 1300) ADC | PEL 102<br>PEL 103<br>PEL 105<br>8333<br>8336<br>8436<br>8345           | 2140.28                   |
| <b>AC Current Probe Model MN93-BK</b><br>   | 0.78 in<br>(20 mm)                     | $\pm 1\%$          | $0.8^\circ$                             | (0.5 to 240) AAC                   | PEL 52<br>PEL 102<br>PEL 103<br>PEL 105<br>8333<br>8336<br>8436<br>8345 | 2140.32                   |
| <b>AC Current Probe Model SR193-BK</b><br>  | 2.05 in<br>(52 mm)                     | $\pm 0.3\%$        | $0.2^\circ$                             | (1 to 1200) AAC                    | PEL 52<br>PEL 102<br>PEL 103<br>PEL 105<br>8333<br>8336<br>8436<br>8345 | 2140.33                   |
| <b>AmpFlex® Sensor 24 in Model 193-24-BK*</b><br>   | 7.64 in<br>(194 mm)<br>(24 in sensor)  | $\pm 1\%$          | $0.5^\circ$                             | 100 mA to 12,000 Aac <sup>®</sup>  | PEL 52<br>PEL 102<br>PEL 103<br>PEL 105<br>8333<br>8336<br>8436<br>8345 | 2140.34                   |
| <b>AmpFlex® Sensor 36 in Model 193-36-BK*</b><br>   | 11.64 in<br>(291 mm)<br>(36 in sensor) | $\pm 1\%$          | $0.5^\circ$                             | 100 mA to 12,000 Aac <sup>®</sup>  | PEL 52<br>PEL 102<br>PEL 103<br>PEL 105<br>8333<br>8336<br>8436<br>8345 | 2140.35                   |

# POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS OPTIONAL ACCESSORIES

| MODEL  | MAX CONDUCTOR SIZE                    | ACCURACY (TYPICAL) | TYPICAL ERROR ON $\phi$ AT (50 / 60) HZ | CURRENT RANGE                     |                      | USED WITH MODEL   | CAT. #  |
|--|---------------------------------------|--------------------|---|-----------------------------------|----------------------|---|---------|
| <b>AC Current Probe Model MN193-BK</b><br>                                  | 0.78 in<br>(20 mm)                    | ± 1 %              | 0.75 °                                  | 100 A                             | 200 mA to<br>120 AAC | PEL 52<br>PEL 102<br>PEL 103<br>PEL 105<br>8333<br>8336<br>8436<br>8345 | 2140.36 |
|  |                                       |                    | 1.7 °                                   | 5 A                               | 5 mA to<br>6 AAC     |   |         |
| <b>AmpFlex® Sensor 24 in<br/>Model 196A-24-BK* (Waterproof IP67)</b><br>    | 7.64 in<br>(194 mm)<br>(24 in sensor) | ± 1 %              | 0 °                                     | 100 mA to 12,000 AAC <sup>*</sup> |                      | PEL 105<br>8436   | 2140.75 |
| <b>MiniFlex® Sensor 14 in<br/>Model MA196-14-BK* (Waterproof IP67)</b><br> | 3.9 in<br>(99 mm)<br>(14 in sensor)   | ± 1 %              | 0 °                                     | 100 mA to 12,000 AAC <sup>*</sup> |                      | PEL 105<br>8436   | 2140.79 |
| <b>AC Current Probe Model MN94</b><br>                                    | 0.25 in<br>(7 mm)                     | ± 0.2 %            | 0.1 °                                   | 50 mA to 200 AAC                  |                      | PEL 52<br>8345  | 2140.81 |
| <b>AC / DC Current Probe Model E94</b><br>                                | .464 in<br>(11.8 mm)                  | ± 3 %              | 1.5 °                                   | 10 A                              | 100 mA to<br>10 AAC  | 8345  | 2140.82 |
|  |                                       | ± 4 %              | 1 °                                     | 100 A                             | 500 mA to<br>100 AAC |   |         |

\* Maximum current reduced by a factor of 2 for 400 Hz fundamental frequency.

All current sensors can be used with Models PEL 105 and 8436. However, only the MA196-14-BK and 196A-24-BK flexible sensors are waterproof.

(1) Current range may be limited by sensor size or meter type.

Consult factory for NIST Calibration prices.

# POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS SELECTION CHART

| MODEL   | CAT. #  | INPUT TERMINALS | CHANNELS  | RMS VOLTAGE MAX PHASE-TO-NEUTRAL | RMS VOLTAGE MAX PHASE-TO-PHASE | PEAK VOLTAGE MAX PHASE-TO-NEUTRAL | PEAK VOLTAGE MAX PHASE-TO-PHASE | DC VOLTAGE MAX       | AC CURRENT MAX (PROBE DEPENDENT) | DC CURRENT MAX (PROBE DEPENDENT) | RATIOS VOLT | RATIOS AMPERE |
|---------|---------|-----------------|-----------|----------------------------------|--------------------------------|-----------------------------------|---------------------------------|----------------------|----------------------------------|----------------------------------|-------------|---------------|
| 8333    | 2136.10 | 4 V / 3 I       | 3 V / 4 I | 1000 Vrms                        | 2000 Vrms                      | 1414 Vpk                          | 2828 Vpk                        | 1200 V <sub>DC</sub> | 10,000 A <sub>AC</sub>           | 1300 A <sub>DC</sub>             |             | Yes           |
| 8336    | 2136.30 | 5 V / 4 I       | 4 V / 4 I | 1000 Vrms                        | 2000 Vrms                      | 1414 Vpk                          | 2828 Vpk                        | 1200 V <sub>DC</sub> | 10,000 A <sub>AC</sub>           | 5000 A <sub>DC</sub>             |             | Yes           |
| 8345    | 2136.35 | 5 V / 4 I       | 4 V / 4 I | 1000 Vrms                        | 2000 Vrms                      | 1414 Vpk                          | 2828 Vpk                        | 1200 V <sub>DC</sub> | 10,000 A <sub>AC</sub>           | 5000 A <sub>DC</sub>             |             | Yes           |
| 8436    | 2136.43 | 5 V / 4 I       | 4 V / 4 I | 1000 Vrms                        | 2000 Vrms                      | 1414 Vpk                          | 2828 Vpk                        | 1200 V <sub>DC</sub> | 10,000 A <sub>AC</sub>           | 5000 A <sub>DC</sub>             |             | Yes           |
| PEL 52  | 2137.71 | 2 V / 2 I       |           | 600 Vrms                         | 1200 Vrms                      | -                                 |                                 |                      | 3600 A <sub>AC</sub>             | -                                | No          | Yes           |
| PEL 102 | 2137.51 | 4 V / 3 I       | 3 V / 3 I | 1000 Vrms                        | 1700 Vrms                      | 1414 Vpk                          | 2400 Vpk                        | 1000 V <sub>DC</sub> | 12,000 A <sub>AC</sub>           | 5000 A <sub>DC</sub>             |             | Yes           |
| PEL 103 | 2137.52 | 4 V / 3 I       | 3 V / 3 I | 1000 Vrms                        | 1700 Vrms                      | 1414 Vpk                          | 2400 Vpk                        | 1000 V <sub>DC</sub> | 12,000 A <sub>AC</sub>           | 5000 A <sub>DC</sub>             |             | Yes           |
| PEL 105 | 2137.57 | 5 V / 4 I       | 4 V / 4 I | 1000 Vrms                        |                                | 1414 Vpk                          | 2400 Vpk                        | 1000 V <sub>DC</sub> | 12,000 A <sub>AC</sub>           | 5000 A <sub>DC</sub>             |             | Yes           |

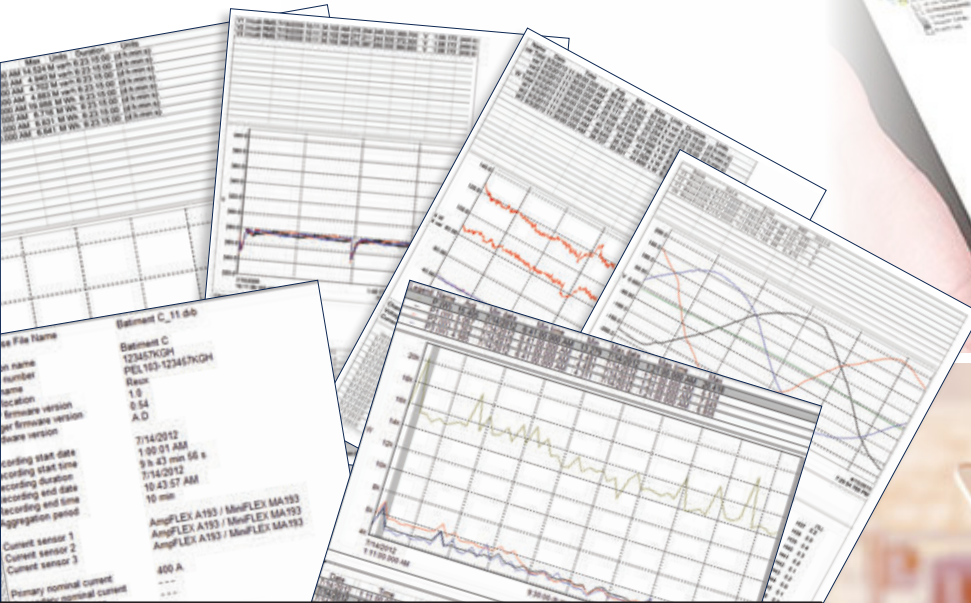
| MODEL   | CAT. #  | DISTRIBUTION SYSTEMS  | PHASE ROTATION | WAVEFORM MODE | TRANSIENT MODE | TRUE INRUSH <sup>®</sup> MODE / TYPE / DURATION | ALARM MODE                                  | SNAPSHOT MODE               | HARMONIC MODE / INTERHARMONIC MODE  | TYPE LCD                                      | POWER SOURCE  |
|---------|---------|---|----------------|---------------|----------------|---|---|-----------------------------|---|---|---|
| 8333    | 2136.10 | 1 P-2 W, 2 P-3 W, 3 P-3 W, 3 P-4 W  |                | Yes           |                | No  | 10 types / up to 2 active / 4662 recorded   | Yes (12)                    | Yes / No  | TFT - 5.7 in diagonal 320 x 240 resolution    | External adapter with internal NiMH battery pack                      |
| 8336    | 2136.30 | 1 P-2 W, 1 P-3 W, 2 P-2 W, 2 P-3 W, 2 P-4 W, 3 P-3 W, 3 P-4 W, 3 P-5 W  |                | Yes           |                | Yes (RMS+PEAK & RMS) up to 1 & 10 min           | 40 types / up to 7 active / 16,362 recorded | Yes (50)                    | Yes / No  | TFT - 5.7 in diagonal 320 x 240 resolution    | External adapter with internal NiMH battery pack                      |
| 8345    | 2136.35 | 1 P-2 W, 1 P-3 W, 2 P-2 W, 2 P-3 W, 2 P-4 W, 3 P-3 W, 3 P-4 W, 3 P-5 W  |                | Yes           |                | Yes (RMS+PEAK & RMS) up to 10 & 30 min          | 40 types / 20,000 w / email notifications   | Yes (no limit with SD card) | DC to 127 <sup>th</sup> order; < 3 % U <sub>din</sub> / 0 to 62 <sup>nd</sup> order; < 0.5 % U <sub>din</sub> | 7 in color LCD touch screen: 800 x 480 (WVGA) | External adapter with Li-ion battery pack                             |
| 8436    | 2136.43 | 1 P-2 W, 1 P-3 W, 2 P-2 W, 2 P-3 W, 2 P-4 W, 3 P-3 W, 3 P-4 W, 3 P-5 W  |                | Yes           |                | Yes (RMS+PEAK & RMS) up to 1 & 10 min           | 40 types / up to 7 active / 16,362 recorded | Yes (50)                    | Yes / No  | TFT - 5.7 in diagonal 320 x 240 resolution    | Line Power with internal NiMH battery pack                            |
| PEL 52  | 2137.71 | 1 P-2 W, 2 P-3 W, 1 P-3 W   | Yes            |               |                |   | No  |                             |   | Monochrome LCD                                | Power phase input with internal NiMH battery pack                     |
| PEL 102 | 2137.51 | 1 P-2 W, 1 P-3 W, 3 P-3 W D2, 3 P-3 W O2, 3 P-3 W Y2, 3 P-3 W D3, 3 P-3 W O3, 3 P-3 W Y, 3P-3 W DB, 3 P-4 W Y, 3 P-4 W YB, 3 P-4 W Y2 1/2, 3 P-4 W D, 3 P-4 W OD, DC-2 W DC-3 W, DC-4 W | Yes            |               |                | No  |   |                             | Yes / No  | None  | Line Power with internal NiMH battery pack                            |
| PEL 103 | 2137.52 | 1 P-2 W, 1 P-3 W, 3 P-3 W D2, 3 P-3 W O2, 3 P-3 W Y2, 3 P-3 W D3, 3 P-3 W O3, 3 P-3 W Y, 3P-3 W DB, 3 P-4 W Y, 3 P-4 W YB, 3 P-4 W Y2 1/2, 3 P-4 W D, 3 P-4 W OD, DC-2 W DC-3 W, DC-4 W | Yes            |               |                | No  |   |                             | Yes / No  | Monochrome LCD                                | Line Power with internal NiMH battery pack                            |
| PEL 105 | 2137.57 | 1 P-2 W, 1 P-3 W, 3 P-3 W D2, 3 P-3 W O2, 3 P-3 W Y2, 3 P-3 W D3, 3 P-3 W O3, 3 P-3 W Y, 3P-3 W DB, 3 P-4 W Y, 3 P-4 W YB, 3 P-4 W Y2 1/2, 3 P-4 W D, 3 P-4 W OD, DC-2 W DC-3 W, DC-4 W | Yes            |               |                | No  |   |                             | Yes / No  | Monochrome LCD                                | Power phase input or external adapter with internal NiMH battery pack |

# POWER QUALITY / ENERGY ANALYZERS, METERS & LOGGERS

## DataView<sup>®</sup> Data Analysis and Reporting Software

### Configure all functions:

- Display and analyze real-time data on your PC
- Configure functions and parameters from your PC
- Customize views, templates and reports to your exact needs
- Create and store a complete library of configurations that can be uploaded as needed
- Zoom in and out and pan through sections of the graph to analyze the data
- Download, display and analyze recorded data
- Display waveforms, trend graphs, harmonic spectrums, text summaries, transients, event logs and stored alarms
- Print reports using standard or custom templates you design
- Free updates available



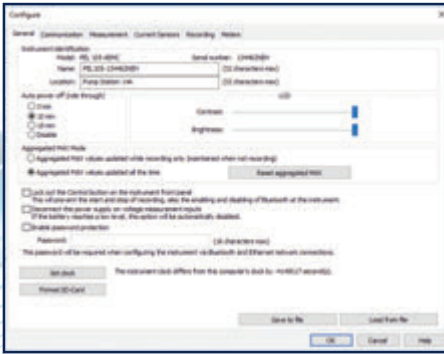
Reports can be displayed on a PC and printed. Each report includes all test results in a tabular and graphic format, as well as operator and test site information. Comments typed by the operator will also be included.



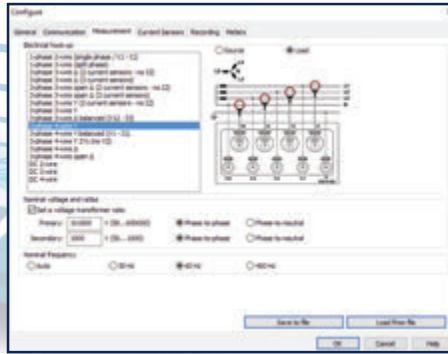
## DataView® Data Analysis and Reporting Software



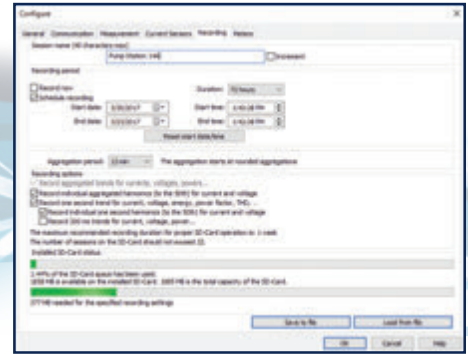
DataView® software, user manual and quick start guide are included in the USB Drive



Configure basic information regarding Auto Power OFF, instrument name and location, display contrast and brightness (*Models PEL 103 & PEL 105*), setting of the real-time clock and SD-card formatting is easily accomplished from the General tab.



The Measurement tab specifies the electrical distribution system, voltage ratios, and nominal frequency.

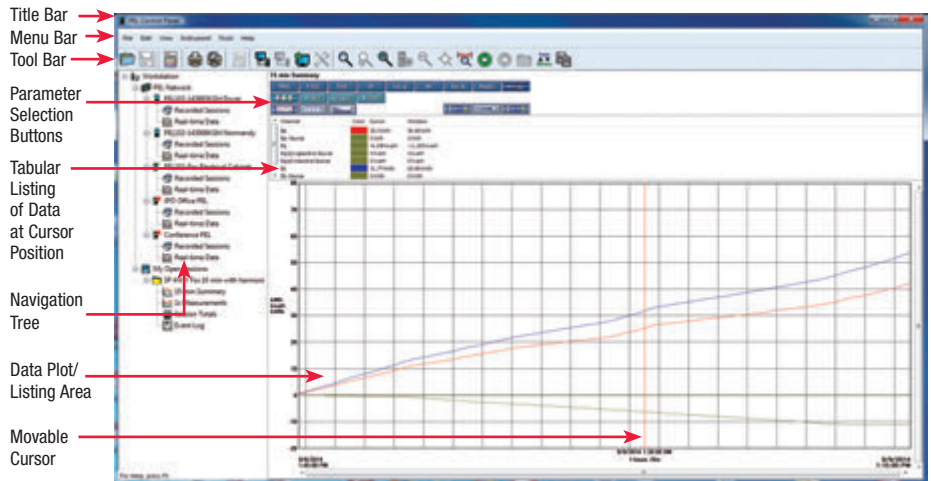


In the Recording tab, configure the instrument to measure (*and record*) over a user selectable recording period. Select demand intervals and view available memory for data storage.

### Typical DataView® Functional Digital & Graphical Display

#### Control Panel Trend View

In the PEL Control Panel you will find all the necessary tools and selection buttons to review recorded data as trend plots or tabular lists.



**NEW!** Effortlessly Perform Load Study Analysis Meeting the NEC 220.87 Requirements with the PEL DataView® Control Panel Feature