

POWER & ENERGY LOGGERS

MODELS PEL 112, PEL 113, & PEL 115

NEW!
**5x Faster
Measurements!**

*(compared to the
older PEL 102 and
PEL 103 models)*



All You Need for Power and Energy Logging

- ▶ Easily perform NEC load studies and profiling
- ▶ Ability to capture and store recordings extending over several months
- ▶ 32 alarms can be configured to receive alerts and reports via email
- ▶ Simple to use, single-, dual- and three-phase (Y, Δ) power and energy loggers
- ▶ Works on (50, 60 and 400) Hz networks
- ▶ Designed to work in 1000 V CAT III and 600 V CAT IV environments
- ▶ DataView® software for data storage, real-time display, analysis and report generation with custom templates
- ▶ Measure and log factorized harmonic content to the 50th
- ▶ Multiple connectivity options including USB, Ethernet, Wi-Fi, and remote access with DataViewSync™

Our products are backed by over 130 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.

Technical Hotline: (800) 343-1391
www.aemc.com

AEMC®
INSTRUMENTS
CHAUVIN ARNOUX GROUP

Power & Energy Loggers

Models PEL 112, PEL 113 & PEL 115

Effortless Energy Logging for Smarter Power Management!

Effective energy management is key to reducing operational costs and improving system performance. The **Models PEL 112, PEL 113, and PEL 115** provide precise, real-time monitoring of electrical quantities, helping detect inefficiencies, prevent overbilling, and perform load studies. With the ability to record data over several months, the PEL 110 series offers a comprehensive view of energy consumption patterns.

Designed for seamless integration, the PEL loggers are ideal for energy audits, preventive maintenance, and load balancing. Their advanced motor diagnostics further enhance efficiency by assessing motor performance without mechanical sensors through the free Android™ app.

Versatile and reliable, the PEL 110 series serves industries ranging from manufacturing and data centers to public infrastructure and renewable energy. With multiple connectivity options including USB, Ethernet, Wi-Fi, and remote access with DataViewSync™, these loggers enable remote monitoring and data-driven decision-making, ensuring smarter energy management and long-term savings.



SCAN TO LEARN MORE

FEATURES

- ▶ **Comprehensive Energy Analysis**
Single-, dual- (split-phase) and three-phase (Y, Δ) power & energy loggers
- ▶ **Multi-Month Recording Capability**
Ability to capture and store recordings extending over several months
- ▶ **Versatile Measurement Options**
3 voltage and 3 current channels with auto recognition of connected current sensors and probes
- ▶ **Motor Diagnostics**
Assesses motor speed, efficiency, and torque without mechanical sensors via the Android™ App
- ▶ **Wide Range of Applications**
Predictive and preventive maintenance, energy audits, cost optimization and IT infrastructure maintenance
- ▶ **Multiple Connectivity Options**
Supports USB, Ethernet, Wi-Fi access points (*up to 5 clients*), and remote access with DataViewSync™
- ▶ **Alarms and Reports Configuration**
Set up to 32 alarms, and when alarms occur during a recording, send email reports via DataViewSync™
- ▶ **FREE DataView® Software**
For configuring, data retrieval, real-time measurement display, data analysis, and report generation
- ▶ **Expandable Storage**
Supports SD cards up to 32 GB
- ▶ **Self-Powered Option**
PEL 112 & PEL 113: Can be powered directly from the phases with PEL Adapter (*sold separately*)
PEL 115: Phase powered to simplify installation and reduce cord clutter
- ▶ **Remote Access and Real-Time Monitoring**
Allows users to view and analyze power consumption from anywhere

The PEL 110 series is the ideal power loggers to optimize energy efficiency, reduce costs, and enhance the performance of electrical systems.

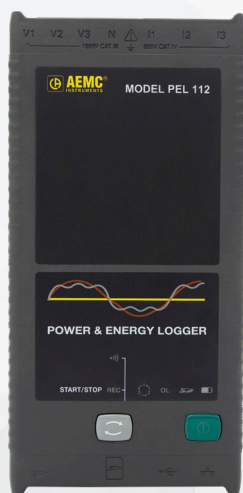


DataView®
DataViewSync™



The PEL 110 series loggers integrate seamlessly, allowing installation without power interruption—ideal for energy audits, preventive maintenance, and load balancing.

The PEL 110 Series at a Glance...



PEL 112

Ideal for tamper-proof long-term monitoring over time without requiring real-time display

Embedded magnets in case

Can work in temperatures down to -4 °F (-20 °C)

Provides 200 ms speed acquisition

5x Faster than the PEL 102!

PEL 113

Ideal for advanced on-site monitoring with real-time data access

Can work in temperatures down to 32 °F (0 °C)

5x Faster than the PEL 103!

PEL 115

Ideal for harsh outdoor environments (IP67-rated, waterproof and dust-proof casing)

Pole-mounting kit

Can work in temperatures down to -4 °F (-20 °C)

Provides 200 ms speed acquisition

Android™ application to communicate in real time and configure the PEL from a smartphone or a tablet



Managing large data volumes strains servers and cooling. Monitoring energy use prevents failures, cuts costs, and boosts reliability.

APPLICATIONS

► Load Studies

- Effortlessly perform load study analysis meeting the NEC 220.87 requirement
- Establish a 15 minute max demand in order to calculate the headroom on an electrical service

► Industrial and Facility Monitoring

- Monitor power consumption in manufacturing plants, data centers, and commercial buildings
- Analyze load distribution and detect imbalances to prevent costly electrical failures

► Preventive and Predictive Maintenance

- Perform motor diagnostics without mechanical sensors
- Detect power anomalies early to reduce unplanned downtime
- Optimize power factor correction to improve energy efficiency and reduce penalties

► Renewable Energy and Power Distribution

- Monitor photovoltaic, wind, and hydroelectric energy systems for performance optimization
- Measure voltage and current across power grids and prevent energy loss

► Data Center and IT Infrastructure Management

- Control energy consumption in server rooms and data centers to reduce cooling costs
- Prevent power overloads that can lead to system failures
- Utilize Wi-Fi and Ethernet connectivity for real-time remote monitoring

FUNCTIONS

- RMS and DC measurements with 128 samples/cycle simultaneously on each phase
- AC and/or DC voltage measurements up to 1000 V
- Current up to 12 kA_{AC}, 13 A_{DC}
(depending on the current sensor)
- Active, reactive (N,D,Q) and apparent power values
- Active energy values
- Fundamental active power values (Pf), balanced active power values (P+) and unbalance active power (Punb)
- Motor measurements and characterization through the free Android™ app
- Extensive measurement range by using voltage and current ratios
- Breakdown of energy losses
- The phase data: $\cos \phi$, $\tan \phi$, power factor (PF)
- Crest factor
- THD calculation for currents and voltages
- DC, 50 Hz, 60 Hz and 400 Hz measurements
- Recording of the measurements and calculation results on the SD card
- Automatic recognition of the type of sensor connected

Models PEL 112, PEL 113 & PEL 115

Specifications¹

	1000 V CAT III	600 V CAT IV		1000 V CAT IV							
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— PEL 112 & PEL 113 —

— PEL 115 —

MODEL	PEL 112 & PEL 113		PEL 115	
Description	Meter Only	Meter with MA193-10-BK Sensors	Meter Only	Meter with 196A-24-BK Sensors
GENERAL				
Number of Voltage Channels	3- (V1, V2, V3)		4- (V1, V2, V3, Earth/Ground)	
Number of Current Channels	3 - (L1, L2, L3)		4 - (L1, L2, L3, Earth/Ground)	
Distribution Systems	Single-/Split-/3-Phase, DC, etc. (17 choices)			
MEASUREMENTS				
Voltage Range - Phase-Neutral (V) ²	(10 to 1000) V _{AC} /DC ²			
Voltage Range - Phase-Phase (U) ²	(10 to 1000) V _{AC}		(17 to 1000) V _{AC}	
Typical Accuracy - Voltage	±0.2 % R ±0.2 V			
Current Range AC	5 mA to 12 kA _{AC} ³	200 mA to 12 kA _{AC}	5 mA to 12 kA _{AC} ³	200 mA to 12 kA _{AC}
Current Range DC	50 mA to 1300 A _{DC} ³			
Typical Accuracy - Current (Meter Only) ⁴	±0.4 % R ± 0.04 % I _{nom}	—	±0.4 % R ± 0.04 % I _{nom}	—
Network Frequencies	DC/50/60/400 Hz (VFD/PWM not available)			
CALCULATED MEASUREMENTS				
Voltage Ratios	up to 650 kV			
Current Ratios	Up to 25 kA (MN193 probe, 5 A range)	Not available with Ampflex®/ Miniflex® sensors	Up to 25 kA (MN193 probe, 5 A range)	Not available with Ampflex®/ Miniflex® sensors
Power (P, P+ , Punb, Qf, N, D, S)	up to 10 GW/Gvar/GVA ⁵			
Energy	up to 4 EWh/EVAh/Evarh ⁵			
Phase	cos ϕ, tan ϕ, PF			
Phase Order / Phasor Diagram	Yes/Yes (with DataView® or App for Android™)			
Harmonics	THD for V, A and Harmonics to 50 th order for V, A			
RECORDING				
Aggregations (Fixed)	200 ms/1 s trends			
Aggregations (Selectable)	(1 to 60) min (12 choices)			
Min/Max Values	Yes			
Alarms	up to 32 separate alarms			
Emailed Reports	Yes, Alarms and Periodical Min/Max data through DataViewSync®			
Storage Media	SD Card (32 GB Max)			
Recording Length	Several Weeks to Years (Configuration Dependent)			
OTHER FEATURES				
Communication	USB, Ethernet/Wi-Fi LAN, Ethernet/Wi-Fi Direct, DataViewSync®			
Software	DataView® included, free App for Android™			
NEC Article 220.87 Load Study Compliant	Yes, DataView® configuration button and report templates			
Mounting	Embedded Magnets in Case		Pole Mounting Kit (Cat. #2137.82)	
Powered from Phase	Phase Power Adapter (Cat. #2137.90)		Yes	
External Power Supply	120 / 240 V Line Power Cord		Power Adapter	
SAFETY AND MECHANICAL				
Electrical Safety (IEC 61010)	600 V CAT IV / 1000 V CAT III		1000 V CAT IV	
Ingress Protection ⁶	IP 54 / IP 20		IP 67	
Weight	<2.2 lb (1 kg)		7.5 lb (3.4 kg)	

¹ Please see user manual for complete technical specifications

² 400 Hz - Phase-Neutral-V (5 to 600) V ; Phase-Phase-U (10 to 600) V

³ Probe dependent

⁴ Accuracy of connected current probe must be added to this value

⁵ (G = Giga = 10⁹), (E = Exa = 10¹⁸)

⁶ (PEL 115) IP 67 with included waterproof accessories;
(PEL 112/113) IP 54 instrument disconnected (de-energized) /
IP 20 instrument connected (energized and operating)

Models PEL 112 & PEL 113

User Interface

Models PEL 112 & PEL 113

The PEL 112 and PEL 113 have the same functions and interface, except the PEL 112 lacks a screen and function buttons for tamper-proof remote long-term monitoring.

4 voltage input connectors

3 current sensor input connectors
(provides automatic recognition of the current sensors)

Rigid molded casing over-molded with thermo-adhesive rubber

Digital LCD displaying measured, calculated and parameterizing quantities
(Model PEL 113 only)

Two function buttons for configuration and display modes
(Model PEL 113 only)

LED status indicators

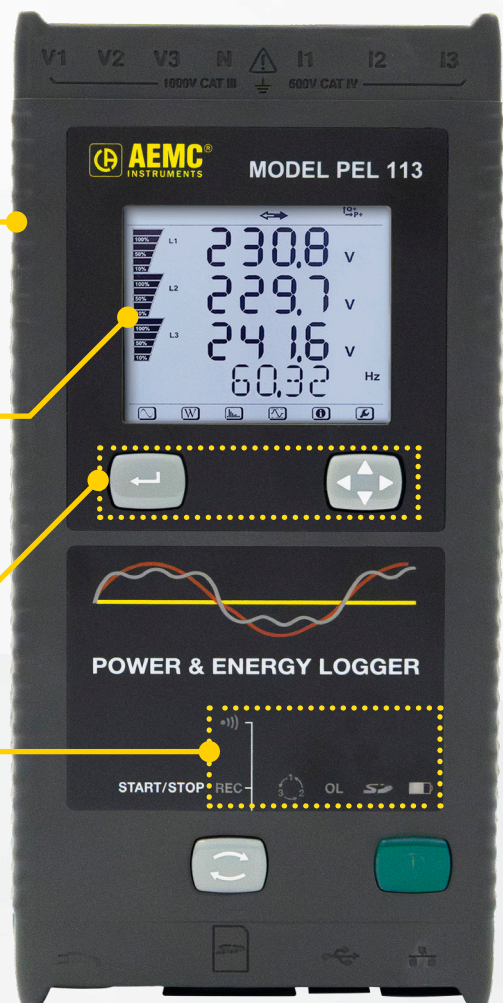
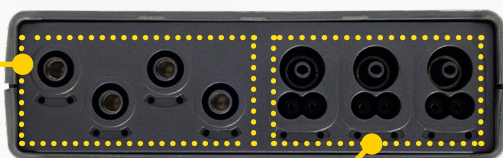
- Wi-Fi
- REC Recording
- Phase Sequence
- OL Overload
- SD Card
- Battery

Power cord connector

SD card slot

USB connector

Ethernet RJ 45 connector



Model PEL 115

User Interface

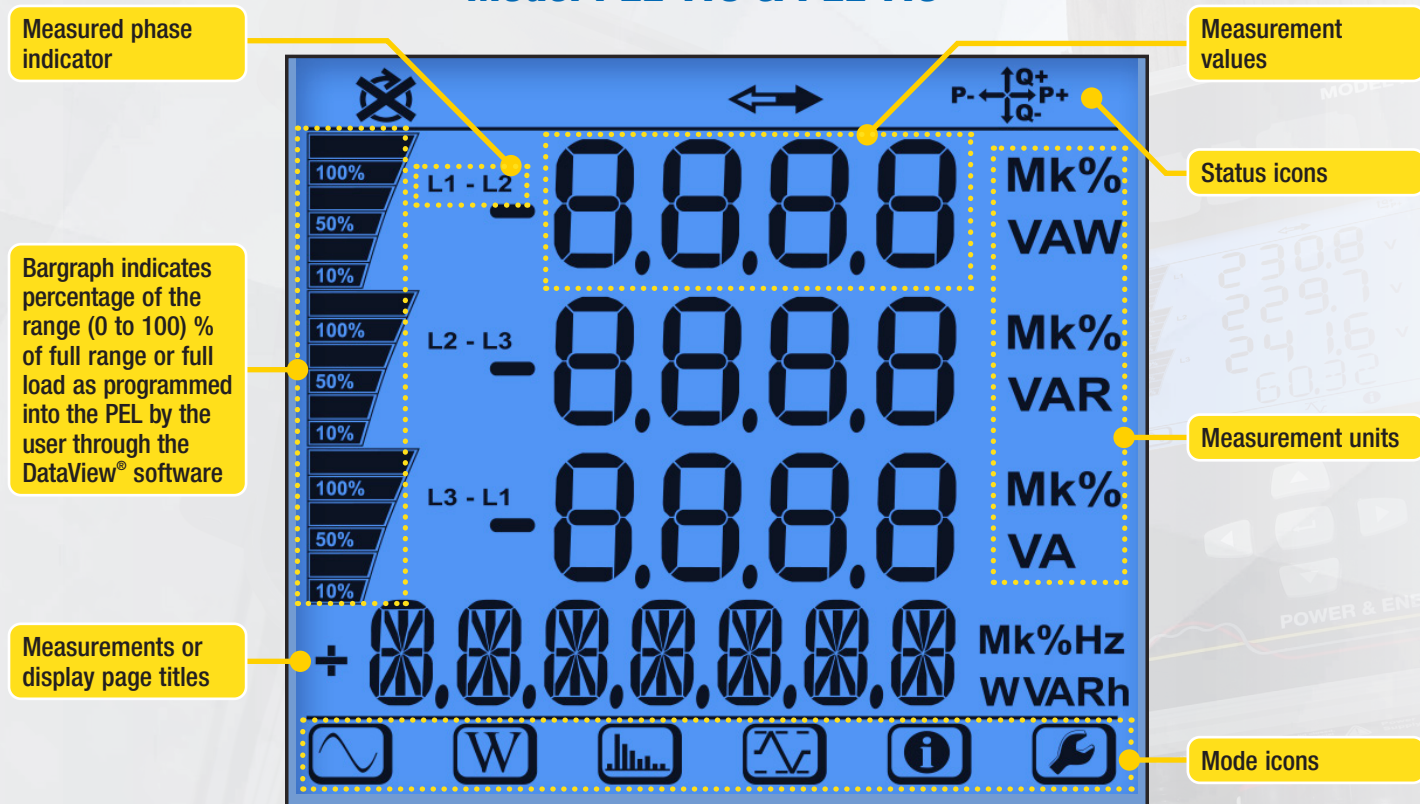
Model PEL 115



Models PEL 113 & PEL 115

Functional Displays – Key Features & Icons

Model PEL 113 & PEL 115



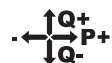
STATUS ICONS



Indicates (1) the phase sequence may be incorrect, or (2) there is a missing phase. This icon only appears in Measurement Mode.



Indicates data available for recording.



Indicates the current power quadrant.

MODE ICONS



Real-Time Measurement Mode



Power and Energy Mode



Harmonics Mode



Max Mode



Information Mode

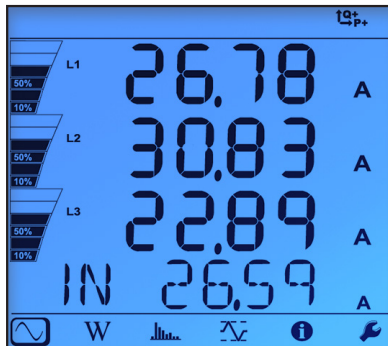


Configuration Mode

Models PEL 113 & PEL 115

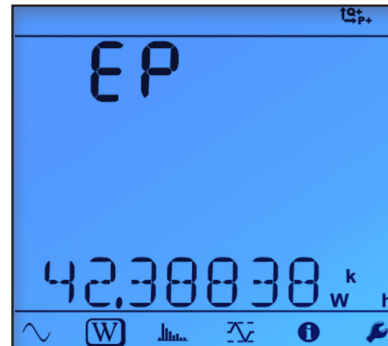
Functional Displays – Modes

MEASUREMENT MODE



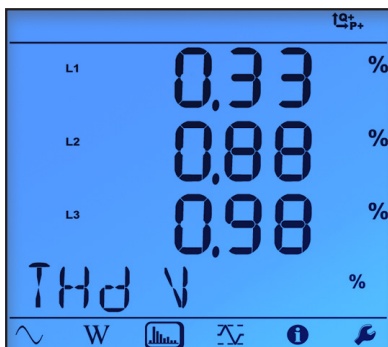
Real-time updates are displayed for voltage, current, power, frequency, power factor and tangent.

POWER MODE



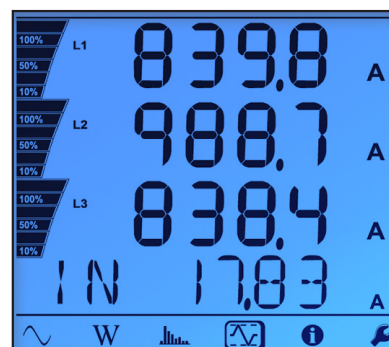
Real, apparent, or reactive energy can be displayed along with its associated energy quadrant.

HARMONIC MODE



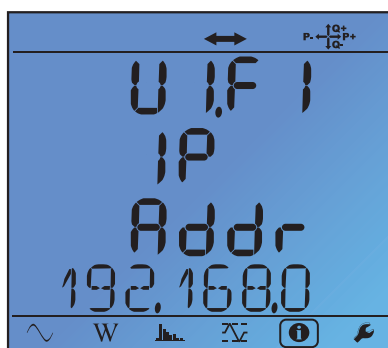
Total Harmonic Distortion (THD) can be displayed by phase or phase to phase. Neutral current THD can also be displayed.

MAX MODE



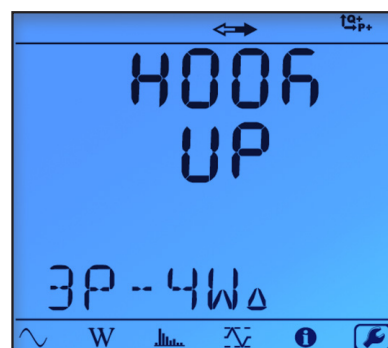
Max values for voltage, current (including neutral current), power and harmonics.

INFORMATION MODE



Displays instrument-related information. (These screens are read-only.)

CONFIGURATION MODE



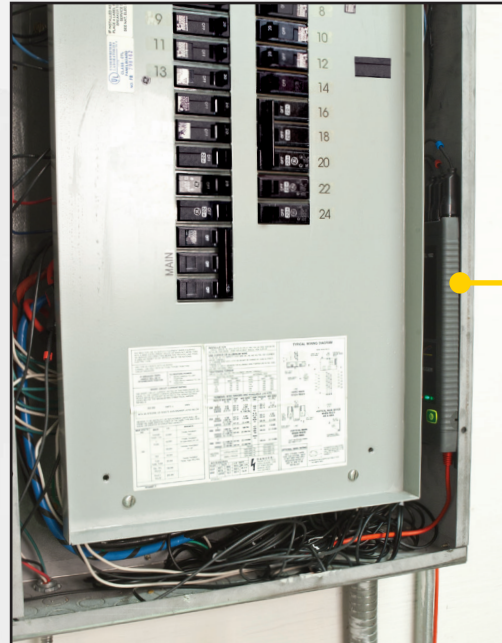
Hook up, voltage and current ratios and aggregation period can be configured from the front panel (PEL 113 and PEL 115.)

Models PEL 112, PEL 113 & PEL 115

Mounting Capabilities



Models PEL 112 and PEL 113 are equipped with powerful magnets for mounting.



Compact side view of Models PEL 112 and PEL 113. Both models easily mount in a panel with the cover in place.



The Model PEL 115 is ideal for harsh outdoor environments with its IP67-rated, waterproof and dust-proof casing.



Accessory brackets (Cat. #2137.82) enable you to mount the Model PEL 115 on a utility pole or similar structure.

Models PEL 112, PEL 113 & PEL 115

PEL Android™ App



The PEL Android™ App is available for the PEL 112, PEL 113, and PEL 115. Connect your Android™ devices to a PEL instrument via Wi-Fi for real-time monitoring and configuration!



PEL ANDROID™ APP FEATURES

- ▶ **Real-Time Data Monitoring**
 - View real-time measurement data from the instrument
 - Displays the phasor diagram (for AC systems)
 - Data is updated continuously from the instrument
- ▶ **Recording Setup and Scheduling**
 - Schedule a recording session
 - Specify what data will be recorded
 - Start recordings immediately or set them to begin at a later time
 - Data is stored on the PEL instrument for later download
- ▶ **Instrument Configuration**
 - Review and modify current configuration settings
 - Change the type of distribution system being measured
 - Adjust voltage ratios, nominal frequency, current sensor options, and other parameters
 - Configure communication-related settings



DataView®

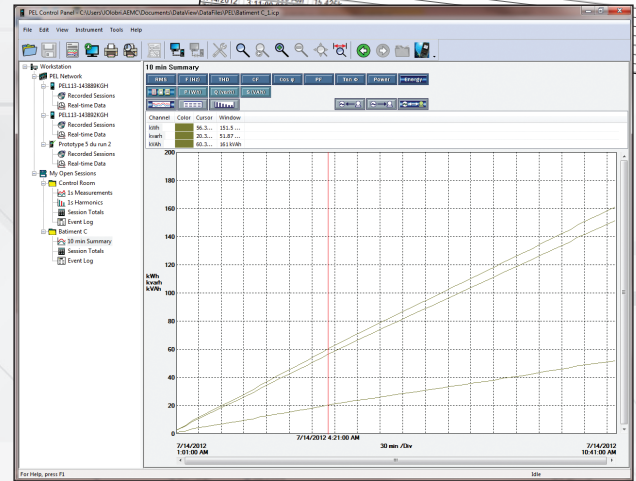
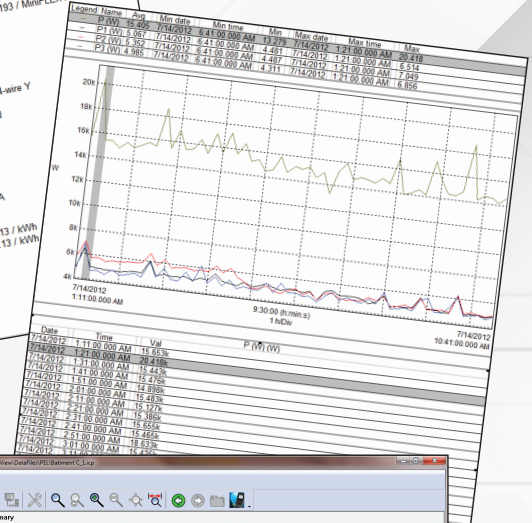
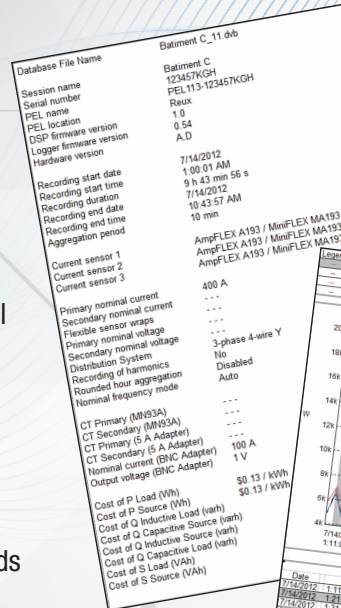
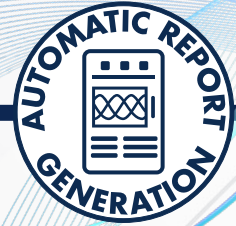
Data Analysis and Reporting Software

Our DataView® software simplifies data recording, visualization, and analysis for AEMC® device measurements. It provides powerful tools for generating custom and standard reports, making it easy to interpret and share critical measurement data.

DataView® software makes it easy to configure and manage power and energy tests directly from your computer. With an intuitive tabbed interface, users can quickly set up and control the PEL 112, PEL 113, and PEL 115 models, streamlining testing and data collection.

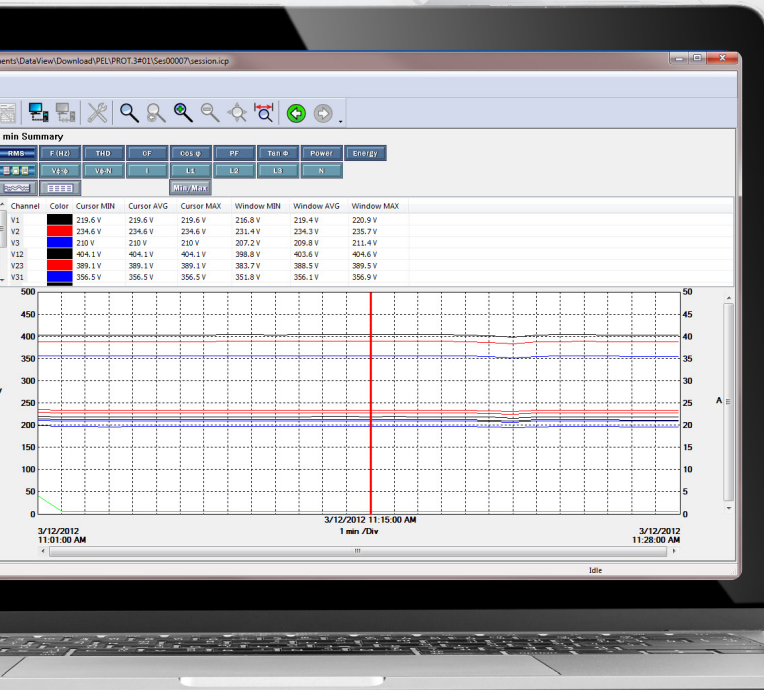
Configure all functions of the PEL

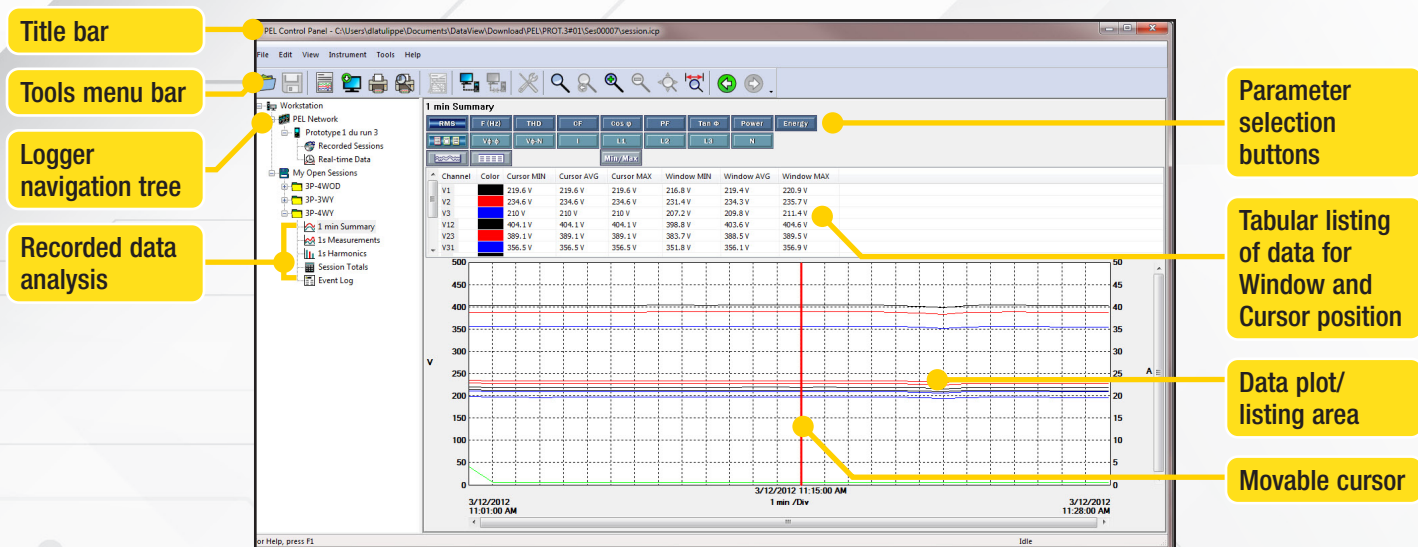
- ▶ Display and analyze real-time data on your PC
- ▶ Configure functions and parameters from your PC
- ▶ Customize views, templates and reports to your exact needs
- ▶ Create and store a complete library of configurations that can be uploaded as needed
- ▶ Zoom in and out and pan through sections of 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
- ▶ Export to spreadsheet and generate PDFs



Reports can be viewed on a PC and printed, displaying all test results in both tabular and graphical formats. Each report also includes operator details, test site information, and any comments entered by the operator.

DataView® streamlines the PEL device setup, real-time monitoring, and report generation, making power analysis quick and efficient.





Typical DataView® functional, digital, and graphical displays.

The 'Configure' dialog box, General tab, shows settings for the instrument. It includes fields for Instrument identification (Model: PEL 113 AEMC, Serial number: 180547WFH, Name: PEL 113-180547WFH, Location: Dover R&D). There are checkboxes for 'Auto power off (fade through)' (3 min, 10 min, 15 min, Disable) and 'LCD' (Contrast, Brightness). There are also checkboxes for 'Aggregated MAX mode' (Aggregated MAX values updated while recording only, Aggregated MAX values updated all the time) and 'Lock out the Control button on the instrument front panel'. There is a checkbox for 'Enable password protection' with a password field. There are buttons for 'Set clock', 'Format SD-Card', 'Save to file', and 'Load from file'. The bottom has 'OK', 'Cancel', and 'Help' buttons.

The **General** tab provides easy access to basic settings, including Auto Power Off, instrument name and location, display brightness and contrast (PEL 113 and PEL 115), real-time clock configuration, and SD card formatting.

The 'Configure' dialog box, Communication tab, shows settings for communication. It includes a 'LAN' section with checkboxes for 'Enable DHCP', 'IP address', 'Subnet mask', 'Gateway address', and 'Port'. There is a 'WiFi' section with checkboxes for 'Enable', 'Mode' (WiFi 'Station' mode (STA), WiFi access point), 'Protocol' (UDP, TCP), and 'Port'. There is a 'DataViewSync™' section with a checkbox for 'Enable', 'Serial number', 'Password', and 'Connection type' (Ethernet, Wifi). There are buttons for 'Edit', 'Scan', 'Test', 'Register', 'OK', 'Cancel', and 'Help'.

The **Communication** tab provides information about the various communication mediums supported by the instrument with clear and easy setup of all functions from one dialog box.

Configure

General Communication Measurement **Current Sensors** Recording Meters Alarm Conditions Nominal Values Report

Electrical hook-up

1-phase 2-wire (1 current sensor)
 2-phase 3-wire (2 current sensors)
 3-phase 3-wire Δ (2 current sensors - no 12)
 3-phase 3-wire Δ (3 current sensors)
 3-phase 3-wire open Δ (2 current sensors - no 12)
 3-phase 3-wire open Δ (3 current sensors)
 3-phase 3-wire Y (2 current sensors - no 12)
 3-phase 3-wire Y
 3-phase 3-wire Δ balanced (V12 - 13)
 3-phase 4-wire Y
 3-phase 4-wire Y balanced (V1 - 11)
 3-phase 4-wire Y 2 1/2 (no V2)
 3-phase 4-wire open Δ
 DC 2-wire
 DC 3-wire
 DC 4-wire

Nominal voltage and ratios

☐ Set a voltage transformer ratio

Primary: 1000 V (50...650000) ☒ Phase-to-phase ☐ Phase-to-neutral

Secondary: 1000 V (50...1000) ☒ Phase-to-phase ☐ Phase-to-neutral

Nominal frequency

☒ Auto ☐ 50 Hz ☐ 60 Hz ☐ 400 Hz

Save to file Load from file

OK Cancel Help

The **Measurement** tab specifies the electrical distribution system, voltage ratios, nominal frequency and current probe options and ratios.

Configure

General Communication Measurement **Current Sensors** Recording Meters Alarm Conditions Nominal Values Report

Session name (40 characters max) Boiler Room ☐ Increment

Recording period

☐ Record now Duration: 1 week

☐ Schedule recording Start date: 3/7/2025 Start time: 16:20:00 PEL local time

End date: 3/14/2025 End time: 17:20:00

☐ 30 Day Load Study Reset start date/time

Aggregation period: 15 min The aggregation starts at rounded aggregations

Recording options

☒ Record aggregated trends for currents, voltages, powers...
☐ Record individual aggregated harmonics (to the 50th) for current and voltage
☒ Record one second trend for current, voltage, energy, power factor, THD, ...
☐ Record individual one second harmonics (to the 50th) for current and voltage
☒ Record 200 ms trends for current, voltage, power...

The maximum recommended recording duration for proper SD-Card operation is: 1 week
 The number of sessions on the SD-Card should not exceed 32.

Installed SD-Card status

0.12% of the SD-Card space has been used.
 1884 MB is available on the installed SD-Card. 1885 MB is the total capacity of the SD-Card.

880 MB needed for the specified recording settings

Save to file Load from file

OK Cancel Help

The **Recording** tab configures the instrument to measure and record over a user selectable recording period from a few hours to a month or longer. Select demand intervals from one to sixty minutes and view available memory for data storage.

Configure

General Communication Measurement **Current Sensors** Recording Meters **Alarm Conditions** Nominal Values Report

Quantity: Vx-y Group: V Aggregation period: 1 s Nominal value: 180 V Threshold: 15 Duration (in s): 1 Hysteresis: 2 E-mail: ☒

Vx-y
 Vx-y
 Isrs
 VxcF
 Icf
 P (Hz)
 P (W)
 P+ (W)
 P- (W)
 Q (var)
 Q+ (var)
 Q- (var)
 S (VA)
 S+ (VA)
 S- (VA)
 PF
 PF+
 PF-
 Cos φ
 Cos φ+
 Cos φ-
 Tan φ
 Tan φ+
 Tan φ-
 Ep+
 Ep-
 Eq/q1
 Eq/q2
 Eq/q3
 Eq/q4
 Es+
 Es-

Next Page

Save to file Load from file

OK Cancel Help

The **Alarm Conditions** tab sets parameters for alarm monitoring during recording sessions on the instrument, allowing configuration of up to 32 alarms.

Configure

General Communication Measurement **Current Sensors** Recording Meters Alarm Conditions Nominal Values Report

REPORTS ARE ONLY GENERATED DURING A RECORDING

DataViewSync™ communication is needed to send emails.
 Up to 5 E-Mail recipients for all reports
 techsupport@aemc.com

Configure report: Alarms 1 day 1 week 1 month 1 year

☒ Enable report Report text: Alarm conditions activated!

Minimum time between alarm reports: 10 min

Alarm reports include configured alarms and also:

☐ Loss of power supply
☐ Disconnection of probes
☐ SD card full
☒ End of recording

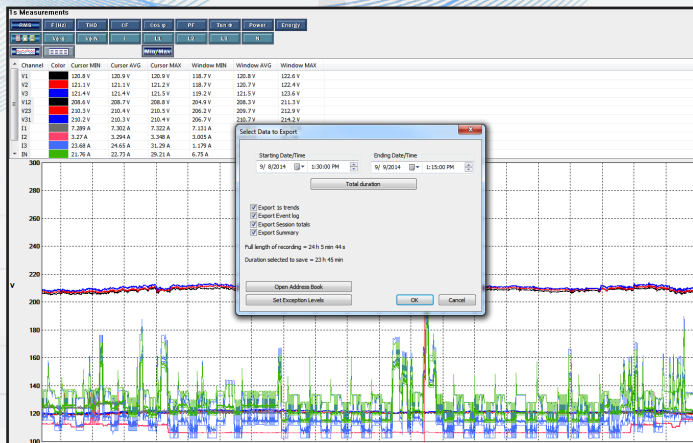
Language: English

Time: 24 h Date: MM/DD/YYYY

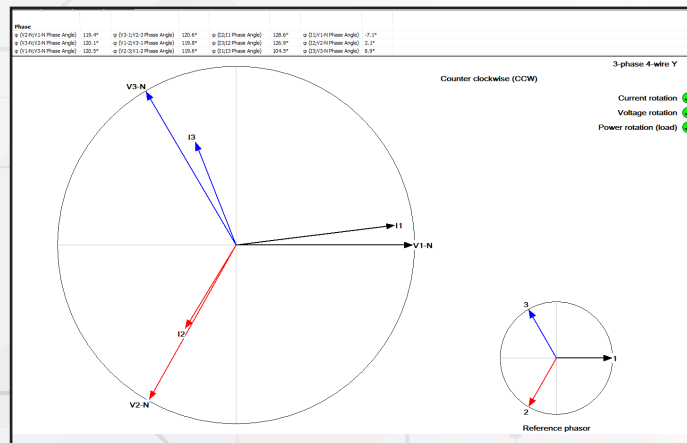
Save to file Load from file

OK Cancel Help

The **Report** tab allows configuration of the instrument to send periodic email reports to up to five users and to send email reports when alarms occur during a recording.



Export User Selectable 1 Sec or 200 mS Data:
Ability to create DataView® reports from 1 sec data,
as well as aggregate data.



Phasor Diagram Screen: Shows actual and reference
diagrams and indicates whether voltage, current and/or
power phase orientations are as expected.

The screenshot displays the 'Options' screen, specifically the 'Program Options' tab. It includes settings for 'Default Tariffs for new sessions', 'Currency symbol first', 'Space between symbol and value', and 'Decimal places'. A table for 'P Load (Wh)' shows override base, start time, end time, new tariff, and days of the week.

Override base	Start time	End time	New Tariff	Monday	Tuesday	Wednesday
<input checked="" type="checkbox"/>	12:00 AM	7:59 AM	0.10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	7:01 AM	6:00 PM	0.10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Time of Use Selection: Ability to program up to 8 different
tariffs for energy cost based on day of week and time of day.

**Effortlessly perform load study analysis
meeting the NEC 220.87 requirements with
the PEL DataView® Control Panel feature.**



Models PEL 112 & PEL 113

Ordering Information



**Model PEL 112 (Cat. #2137.53) and
Model PEL 113 (Cat. #2137.54) includes:**



PRODUCT INCLUDES

**Power & Energy Logger Model PEL 112
(without sensors) Cat. #2137.63**

**Power & Energy Logger Model PEL 113
(without sensors) Cat. #2137.64**

- Small classic tool bag
- (4) 10 ft black test leads in reeling box
- (4) black alligator clips
- Set of (12) color-coded input ID markers
- 8 GB SD-card (*installed*)
- USB SD-card reader
- USB type A to type B cable
- 115 V power cord
- NiMH AAA 8.4 V battery (*installed*)
- Quick start guide
- USB drive with DataView® software and User Manual

**Power & Energy Logger Model PEL 112
(with sensors) Cat. #2137.53**

**Power & Energy Logger Model PEL 113
(with sensors) Cat. #2137.54**

- Small classic tool bag
- (3) MiniFlex® MA193-10-BK Sensors
- (4) 10 ft black test leads in reeling box
- (4) black alligator clips
- Set of (12) color-coded input ID markers
- 8 GB SD-card (*installed*)
- USB SD-card reader
- USB type A to type B cable
- 115 V power cord
- NiMH AAA 8.4 V battery (*installed*)
- Quick start guide
- USB drive with DataView® software and User Manual

OPTIONAL ACCESSORY

**Adapter – 600 V CAT III Power to Phase Adapter
for use with Models PEL 112 & PEL 113 . . . Cat. #2137.90**



Model PEL 115

Ordering Information

Model PEL 115 (Cat. #2137.58) includes:



PRODUCT INCLUDES

Power & Energy Logger Model PEL 115 (without sensors) Cat. #2137.56

- Extra large carrying bag with rubber bottom
- (5) leads 10 ft (3 m) (black, waterproof cap) with (5) alligator clips (black)
- Power adapter 110/230 V with US power cord
- Cable – 5 ft USB
- SD card (8 GB)
- USB SD – card reader
- Set of (12) color-coded input ID markers
- 9.6 V NiMH battery (installed)
- Set of (4) large and (5) small caps (water-tight)
- Quick start guide
- USB drive with DataView® software and User Manual

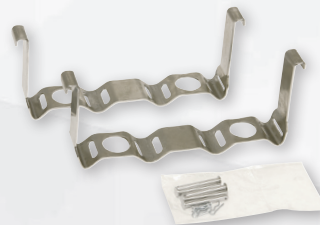
Power & Energy Logger Model PEL 115 (with sensors) Cat. #2137.58

- Extra large carrying bag with rubber bottom
- (4) AmpFlex® sensors 24 in (waterproof, IP67) Model 196A-24-BK
- (5) leads 10 ft (3 m) (black, waterproof cap) with (5) alligator clips (black)
- Power adapter 110/230 V with US power cord
- Cable – 5 ft USB
- SD card (8 GB)
- USB SD – card reader
- Set of (12) color-coded input ID markers
- 9.6 V NiMH battery (installed)
- Set of (4) large and (5) small caps (water-tight)
- Quick start guide
- USB drive with DataView® software and User Manual

OPTIONAL ACCESSORY

Pole Mounting Kit

Set of (2) with Hardware Cat. #2137.82



PEL-Compatible Current Probes & Sensors

Optional Accessories

MODEL	MAX CONDUCTOR SIZE	CURRENT RANGE	ACCURACY (TYPICAL)	TYPICAL ERROR ON Φ AT (50 / 60) HZ	USED WITH MODEL	CAT. #
MiniFlex® Model MA193-10-BK* & MiniFlex® Model MA193-14-BK* & MiniFlex® Model MA194-24-BK*  10, 14 & 24 inch Sensor	2.75 in (70 mm) (10 in sensor)	200 mA to 12,000 Aac ⁽¹⁾	± 1 %	0.5 °	PEL 112 PEL 113 PEL 115	2140.48 (10 in sensor)
	3.94 in (100 mm) (14 in sensor)					2140.50 (14 in sensor)
	7.64 in (194 mm) (24 in sensor)					2140.80 (24 in sensor)
AC/DC Current Probe Model MR193-BK 	1.6 in (41 mm)	(1 to 1000) Aac (1 to 1300) Adc	± 2.5 %	-0.80 °	PEL 112 PEL 113 PEL 115	2140.28
AC Current Probe Model MN93-BK 	0.78 in (20 mm)	(0.5 to 240) Aac	± 1 %	0.8 °	PEL 112 PEL 113 PEL 115	2140.32
AC Current Probe Model SR193-BK 	2.05 in (52 mm)	(1 to 1200) Aac	± 0.3 %	0.2 °	PEL 112 PEL 113 PEL 115	2140.33
AmpFlex® Sensor 24 in Model 193-24-BK* 	7.64 in (194 mm) (24 in sensor)	200 mA to 12,000 Aac ⁽¹⁾	± 1 %	0.5 °	PEL 112 PEL 113 PEL 115	2140.34
AmpFlex® Sensor 36 in Model 193-36-BK* 	11.64 in (291 mm) (36 in sensor)	200 mA to 12,000 Aac ⁽¹⁾	± 1 %	0.5 °	PEL 112 PEL 113 PEL 115	2140.35

MODEL	MAX CONDUCTOR SIZE	CURRENT RANGE		ACCURACY (TYPICAL)	TYPICAL ERROR ON AT (50 / 60) HZ	USED WITH MODEL	CAT. #
AC Current Probe Model MN193-BK 	0.78 in (20 mm)	100 A	200 mA to 120 Aac	± 1 %	0.75 °	PEL 112 PEL 113 PEL 115	2140.36
		5 A	5 mA to 6 Aac		1.7 °		
AmpFlex® Sensor 24 in Model 196A-24-BK* (Waterproof IP67) 	7.64 in (194 mm) (24 in sensor)	100 mA to 12,000 Aac ⁽¹⁾		± 1 %	0.5 °	PEL 115	2140.75
MiniFlex® Sensor 14 in Model MA196-14-BK* (Waterproof IP67) 	3.9 in (99 mm) (14 in sensor)	100 mA to 12,000 Aac ⁽¹⁾		± 1 %	0.5 °	PEL 115	2140.79
AC / DC Current Probe Model E94 	.464 in (11.8 mm)	10 A	50 mA to 10 Aac	± 3 %	1.5 °	PEL 112 PEL 113 PEL 115	2140.82
		100 A	50 mA to 100 Aac	± 4 %	1 °		

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

All current sensors can be used with Models PEL 115 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.

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