

What's New in DataView 3.50

AEMC's DataView data analysis software enables a computer to connect to, and interact with, a variety of AEMC instruments. DataView includes a core set of features for viewing data, and for opening, creating, and saving DataView reports. DataView also includes product-specific Control Panels for connecting to the instrument, viewing measurements data in real time, configuring settings from the computer, and other actions.

Experienced DataView users will notice several new features introduced in DataView 3.50, released in early 2017. This includes updates to core DataView functionality, as well as enhancements to a number of DataView Control Panels.

New Navigation Frame in Reports

For example, navigation through DataView report worksheets has been significantly enhanced. In previous versions, you opened worksheets by clicking tabs at the bottom of the screen.

Date	Time	Val
5/5/2015	10:02:44.000 AM	0.998
5/5/2015	10:02:45.000 AM	0.998
5/5/2015	10:02:46.000 AM	0.999
5/5/2015	10:02:47.000 AM	0.998
5/5/2015	10:02:48.000 AM	0.998
5/5/2015	10:02:49.000 AM	0.998
5/5/2015	10:02:50.000 AM	0.999
5/5/2015	10:02:51.000 AM	0.998
5/5/2015	10:02:52.000 AM	0.999
5/5/2015	10:02:53.000 AM	0.999
5/5/2015	10:02:54.000 AM	0.999
5/5/2015	10:02:55.000 AM	0.999
5/5/2015	10:02:56.000 AM	0.999

Navigation tabs at the bottom: P (kWh) | Es (kVAh) | Eq (kvarh) | Cost | F (Hz) | CF | Cos φ (DPF) | Tan φ | VB-N THD (%) | VB-φ THD (%) | I THD (%) | VB-N h 2-16 | VB-N h 17-33 | VB-N h 34-50 | VB-φ h 2-16 | VB-φ h 17-33

DataView 3.50 includes a new left navigation frame, similar to the navigation frames in Control Panels.

The screenshot shows the DataView 3.50 interface with a new left navigation frame. The frame contains a list of worksheets including:

- Coversheet
- Table of Contents
- Voltage, Current, Power
- Phase-to-Neutral Voltage RMS
- Phase-to-Phase Voltage RMS
- Current RMS
- Phase-to-Neutral Voltage RMS
- Phase-to-Phase Voltage RMS
- Current RMS
- Power Factor
- Active Power P (kW)
- Apparent Power S (kVA)
- Reactive Power Q (kvar)
- Active Energy Ep (kWh)
- Apparent Energy Es (kVAh)
- Reactive Energy Eq (kvarh)
- Cost
- Frequency (Hz)
- Cost Factor
- Cos φ (DPF)
- Tan φ
- Phase-to-Neutral Total Harmonic Distortion
- Phase-to-Phase Total Harmonic Distortion
- Current Total Harmonic Distortion
- Phase-to-Neutral Voltage Harmonics 2-16
- Phase-to-Neutral Voltage Harmonics 17-33
- Phase-to-Neutral Voltage Harmonics 34-50
- Phase-to-Phase Voltage Harmonics 2-16
- Phase-to-Phase Voltage Harmonics 17-33
- Phase-to-Phase Voltage Harmonics 34-50
- Current Harmonics 2-16
- Current Harmonics 17-33
- Current Harmonics 34-50
- Events
- Total energies and costs
- Configuration
- Glossary

Two data plots are shown on the right:

Name	AVG	MIN	MIN date	MIN time	MAX
V1-N (1 min)	212.1	211.2	5/5/2015	10:11:13 AM	217.3
V1-N (1 s)	212.1	211.1	5/5/2015	10:09:03 AM	217.3
V1-N (200 ms)	212.1	211.0	5/5/2015	10:09:01.290 AM	221.6
V1-N DC (1 min)	0.0	0.0	5/5/2015	10:03:04 AM	0.0

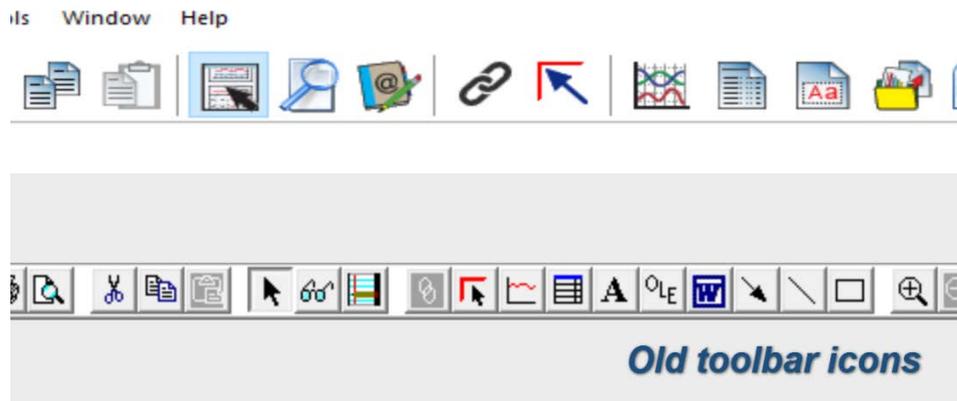
The first plot shows Voltage (V) over time from 5/5/2015 10:04:00 AM to 10:17:00 AM. The second plot shows Current (A) over the same time period.

This provides several advantages. In addition to easier navigation, more worksheets can be listed and viewed in a single place. Worksheet names can be longer and more descriptive without affecting how many names can appear at the same time, since they are no longer displayed horizontally. As a result, you can usually move from any worksheet to another with a single click. You can also quickly see a list of all the content contained within the report from any worksheet, without having to return to the Table of Contents.

Note that the new navigation feature does not require any redesign of existing reports created with previous versions of DataView. All worksheets in the report will be listed in the navigation frame without modification -- although you may want to take advantage of this feature and rename worksheets to more descriptive names.

Redesigned Toolbar Icons

Another readily visible enhancement is the DataView toolbar. Icons are now larger and have been redesigned so their functions are more intuitive and easier to identify.

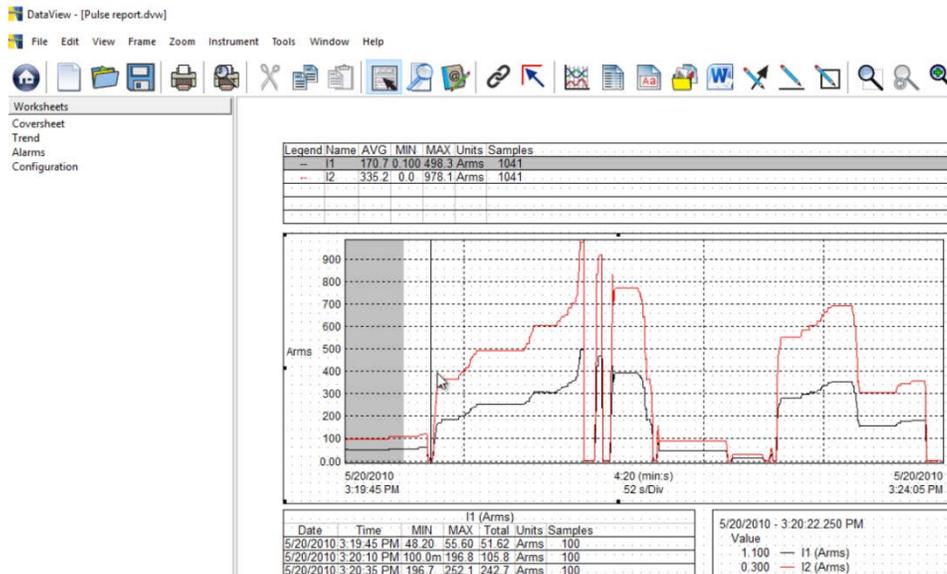


Enhanced Zoom In/Out

Zoom functionality for closer inspection of data has been improved. In addition to expanding a single selected frame, the Zoom In and Zoom Out tools can also be used to expand and reduce the entire worksheet.

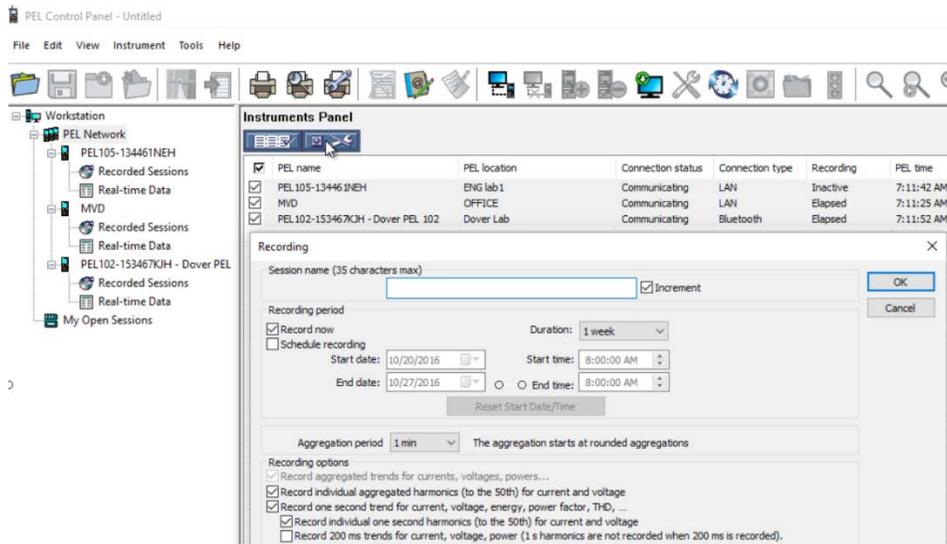
DataView Templates

A number of DataView report templates have been modified for usability. We have also added a new template for viewing and analyzing pulse data recorded by AEMC data logger instruments.



Control Panel Updates

In addition, several DataView Control Panels have been enhanced in Version 3.50. For example, the PEL Control Panel can now configure recording sessions to run simultaneously on multiple instruments. This and other new Control Panel features are described in the separate Help systems that come with each Control Panel.



Downloading DataView 3.50

You can download Version 3.50 from within DataView or a Control Panel. To do this, click Help in the menu bar and select Update. The software checks whether or not your current version of DataView is the latest. If not, you are directed to the DataView download page in the AEMC Web site. Follow the instructions listed on the page for downloading DataView.

Note that you can also open the DataView download page directly by visiting the AEMC web site and clicking Software and Firmware Updates to open the Software Downloads page. Then

click the DataView link in the list of available updates. Note that downloading through the web site requires a password provided to you by AEMC.

This concludes our brief review of new features in DataView 3.50. For more information, consult DataView Help.