

When used with the CANVASS cloud system, the Revolution and Boomerang collect data on a regular basis. Every few minutes the most recent values are sent to the PMI data center. With this system, all data collection is performed continuously; NO data is stored in the device, and NO recording download operation is required by the user. With Canvass, the user can view voltage, current and power stripcharts, histograms and daily profile graphs for every data point that a device has ever registered to the PMI Canvass data warehouse.

Fine-tune your CVR system by using Canvass to analyze voltage trends and regulator responses over geographic regions. Canvass can also be configured to send e-mail and text messages based on real-time events, for immediate action outside your SCADA system.

## FEATURES

- Get real-time readings in the status window
- One-second values and user-defined averages
- The menus in the status window are used for graphing and device setup.
- Send e-mail or SMS text message alerts based on programmable thresholds, or power outages. These alerts are also stored in the Canvass database for analysis later.
- Full zoom control
- Compare voltage, current and power from different locations, and find correlations across a distribution system.
- Graph multiple devices as overlays on a single graph
- 3 graph types: Stripchart, Histogram, and Daily Profile
- Many adjustable settings such as timespan, per unit values, x-axis scale, averaging interval, etc.
- Administrator access allows you to easily manage user accounts and preferences, setup distribution lists, and configure devices.

The Settings Configuration panel allows users to set thresholds for each channel and measure supported by connected devices. When used in conjunction with e-mail alerts, automatic e-mail notifications can be sent when trigger thresholds are exceeded.

**RMS Voltage**

Channel	Low Low	Low	High	High High
Channel 1	110	115	125	130

**RMS Current**

Channel	Low Low	Low	High	High High
Channel 1	50	65	250	400
Channel 2	50	65	250	400
Channel 3	50	65	250	400

**Global Parameters**

Holdoff Time:

Hysteresis:

## FREE LIVE DEMONSTRATION:

Log in anytime to view and interact with live data from demonstration units in the field.

Registering for a **FREE** demo account is simple. Visit: [canvass.powermonitors.com/util/register.jsp](http://canvass.powermonitors.com/util/register.jsp).

Once registered, login at: [canvass.powermonitors.com](http://canvass.powermonitors.com)

## GET ON THE MAP

We have demonstration units available for loan. If you'd like to get on the map and find out first hand how Canvass can work for you, contact your PMI equipment rep:

**Contact Us:**  
800.296.4120  
[sales@powermonitors.com](mailto:sales@powermonitors.com)  
[www.powermonitors.com](http://www.powermonitors.com)

The CANVASS web interface displays a map of substations (23012 to 23025) and provides detailed data for selected devices. The interface includes a Recorders Map, a Stripchart graph showing RMS Voltage (1 Sec. Ave. 8626 points), and a Stats window for Substation 4 (23015) showing Ave RMS Voltage (122.6V), R3SI (14), and Last Update (2011-10-9 11:56:26).

Canvass shows up-to-the-minute stripcharts and stats from each connected device in an intuitive user interface.

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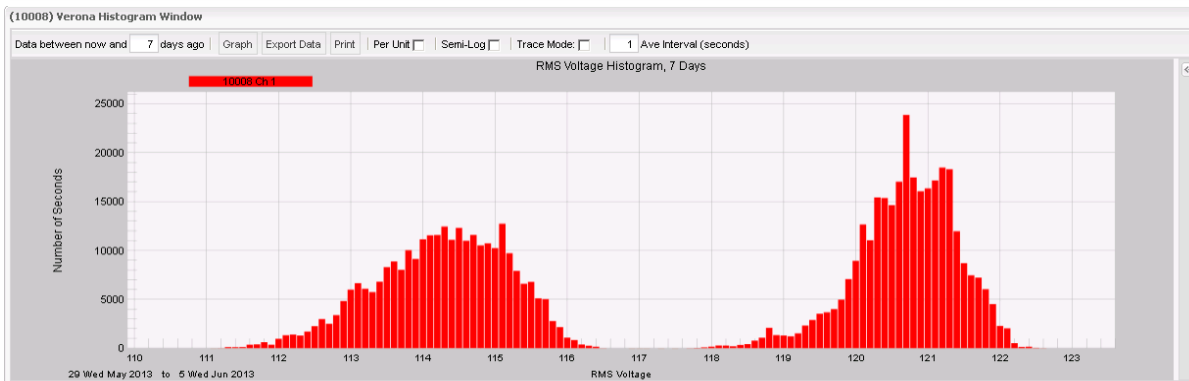
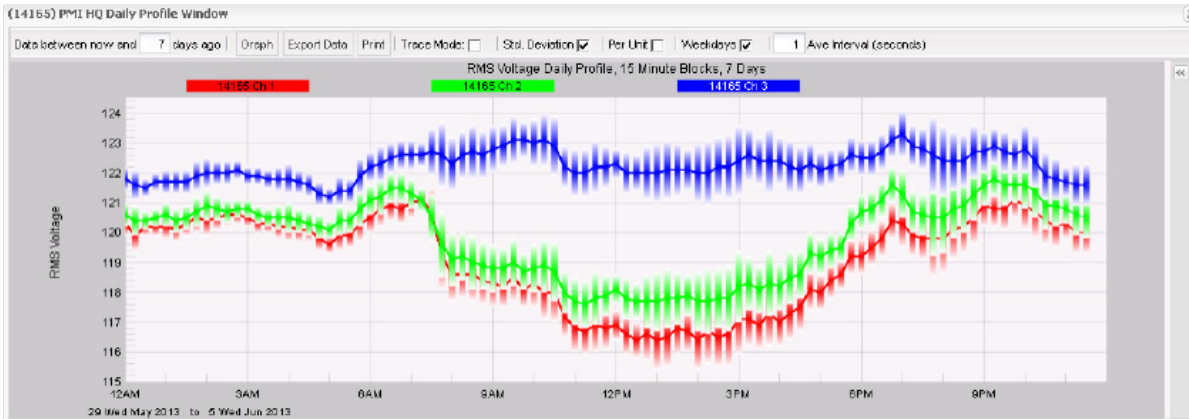
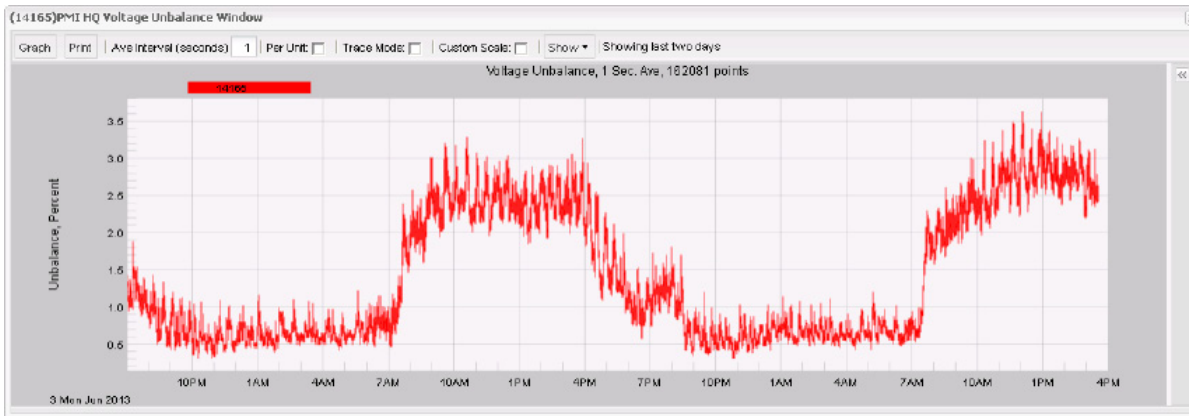
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### STRIPCHART

The default stripchart graphs the last four hours of data, using 1 second values. The stripchart start and stop times can be changed to several built-in values (e.g. the last week, last month, etc.) or adjusted to any custom date range. These graphs can include all data ever recorded – there's no limit to the size of the graph; since data is continuously being sent to the database, there are no gaps in the data, or start or stop times in a recording.

### DAILY PROFILE GRAPH

Particularly useful for monitoring voltage regulation, Canvass Daily Profiles graphs are a great tool for spotting issues with both short and long term voltage trends. The Daily Profile graph show the “average” 24 hour period, for the selected timestamp. The user specifies a time frame of a single day or even up to several months and Canvass returns a graph of the “average day” over the duration of the specified time frame.

The Daily Profile graph has several adjustable parameters: Time Span, Standard Deviation, Per Unit, Weekdays Only and Averaging Interval.

Daily Profiles are an average of the RMS voltage, current and power over the specified averaging interval for each day in the specified timespan. Graph standard deviation to display the specific variance throughout a specified time span for a particular time point.

### HISTOGRAM

The Canvass Histogram graph is a powerful tool to characterize the probability distribution of voltage at a particular location. The shape of the graph, coupled with the statistical analysis, can reveal patterns in the service voltage, and also help quantify a level of service on a statistical basis.

*For additional documentation on CANVASS click [HERE](#).*