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AEMC® INSTRUMENTS
CHAUVIN ARNOUX GROUP

Three-Phase Power Quality Analyzer PowerPad® Model 8335

- General Layout & Functionality
- Setup
- Operational Examples

APPLICATION NOTES | AUGUST 2011

General Layout & Functionality

1 

The PowerPad® **Model 8335** has been laid out with ease of use and maximum functionality in mind. Looking at the top of the unit from left to right, the unit has **four current inputs** to enable the use of current sensors (MN, SR, AmpFlex®, MiniFlex®, and MR probes) and **five voltage inputs**. It is possible to use different current probes per channel. Input voltage ratio are selectable. ***The unit auto-detects and auto-configures itself according to which probes are connected to it.***

2 

Just to the right of the display on the right-hand-side is an **optically isolated USB port**.
This allows the user to connect to a power panel and the computer without danger due to an accidental fault.
Below the USB port is a **power port**. This supplies power to the unit from an external power supply and charges the internal NiMH battery pack. The battery pack has a 10-hour continuous operational capacity and a 35-hour record mode capacity.
Power to this port can be 110/230VAC, 50/60Hz. The **Model 8335** can be used while charging.

3 

There are four **operational menu buttons** (light gray buttons) located on the lower left front panel.
From top-to-bottom they are **RETURN**, **CONFIGURATION**, **SNAPSHOT**, and **HELP**

4 

The six blue buttons on the bottom right are direct access **MAIN MODE function buttons**. From left-to-right and then top-to-bottom they are: **TRANSIENT/INRUSH CURRENT MODE**, **HARMONIC MODE**, **WAVEFORM MODE**, **ALARM MODE**, **TREND MODE**, and **POWER/ENERGY MODE**.

5 

There are six **sub-menu buttons** just below the screen. These allow the user to choose the sub-menus available in a particular menu mode. The function for each of these buttons change according to the display function or mode in use. The sub-menus available in the waveform mode for example are 6 

7 

8 

The **arrow keys** allow the user to move within the menus as seen on the **side-bar menu** on the right-side of the display

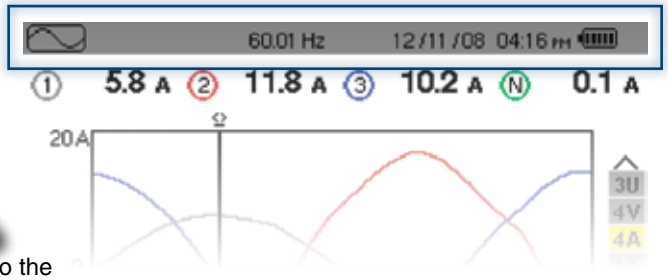
9 

The **enter button** allows the user to choose and enter changes to the setting within the menus.

10 

The green **ON/OFF button** is located at the far lowest left hand corner.
This light up if the external charger is charging the instrument.

Setup



1- Once the unit is turned **ON**, by pressing the green button in the bottom-left-hand corner, the unit powers up and defaults to the **Waveform Mode** showing the waveform icon and frequency.

This function is the top-right of the six blue main mode function buttons.

Date, **time** and **battery** capacity are displayed in the top-right-corner of the screen

2- The user can depress the **SETUP** button , the second grey button on the left side, to configure the instrument using navigation keys. There are 11 options in the setup. One option to note is the Electrical Hookup.

Use the **down arrow** key to scroll down to the desired function and press the **ENTER** key .

You should see a screen similar to **Figure 1**. **Figure 2** shows the example of the screen seen while configuring the instrument using DataView® software.

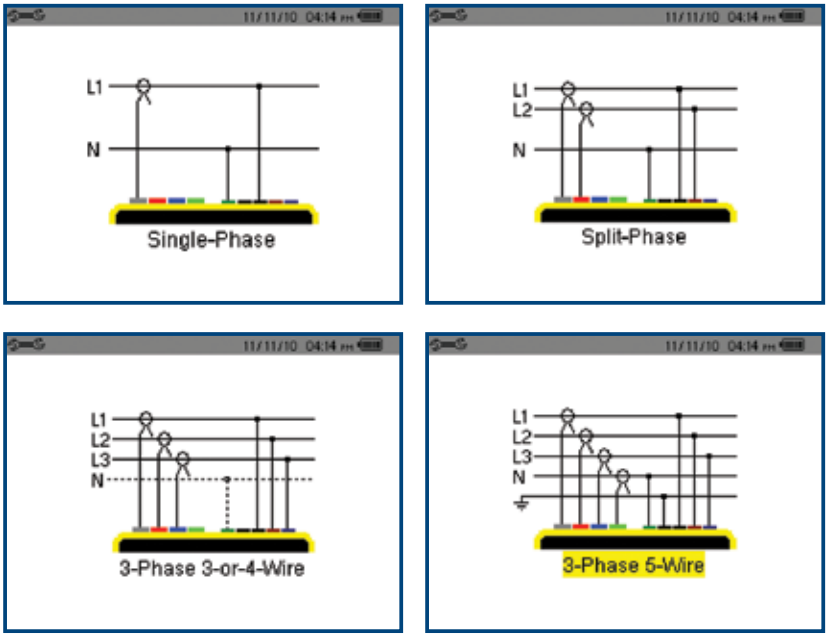


Figure 1. PowerPad® Model 8335 setup screen
4 different screens for 4 different hook-ups

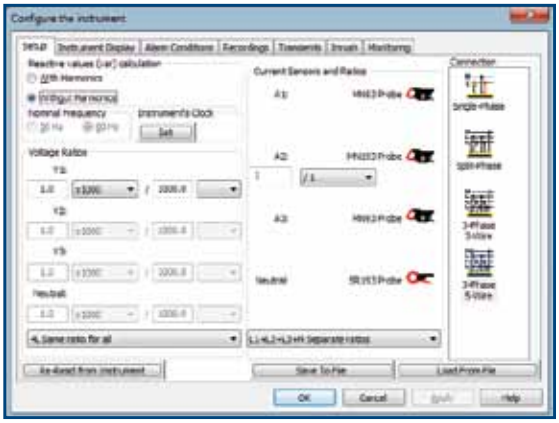


Figure 2. DataView® setup screen

To change the setup using the panel, simply scroll through the options using the **arrow** keys and pressing the **ENTER** key when the desired function is highlighted.

Operational Examples

Assuming that the unit was connected using a 4-wire WYE setup to a three-phase circuit, scrolling through the **OPERATIONAL menu buttons**  (from left to right) would result in the following screens examples.

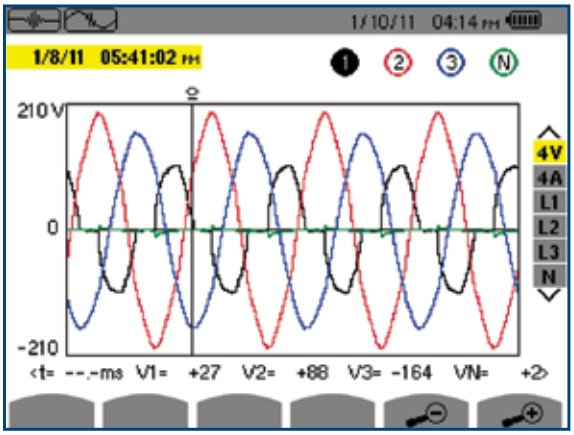


Figure 3. A captured transient example

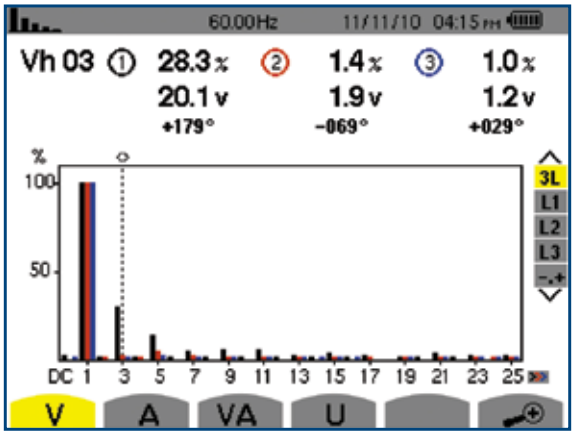


Figure 4. Current harmonics in real-time values at cursor

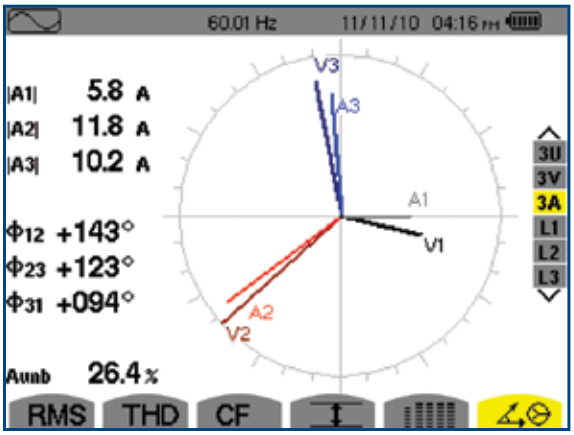


Figure 5. Real-time vector diagram of current

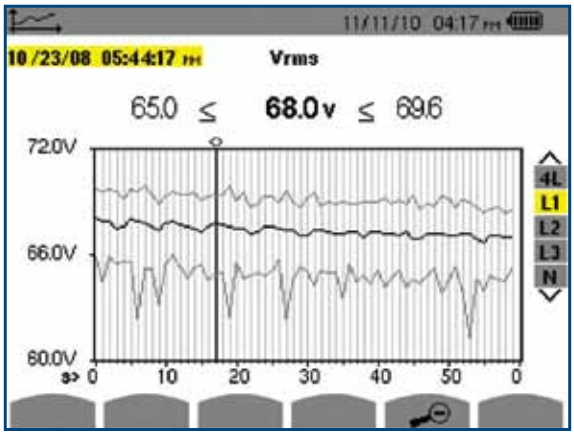


Figure 6. Trend data of wattage consumed values at cursor

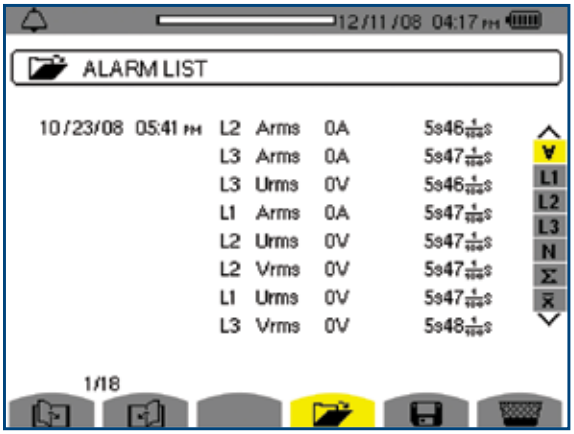


Figure 7. Provides a list of the alarms recorded according to the thresholds programmed during configuration

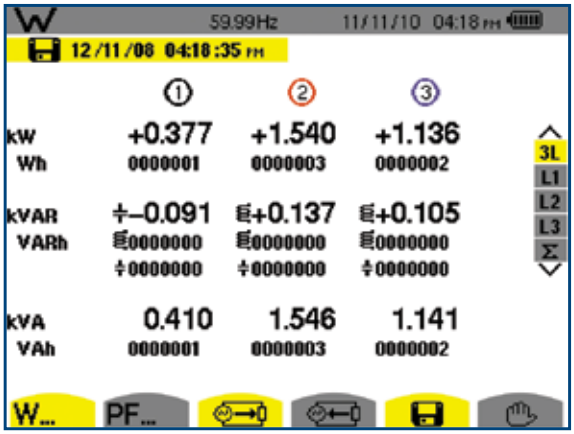


Figure 8. Accumulated data for W, VA, Vars

We have a solution! Contact us with any technical or product application questions...

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