

Fluke 433/434 Volts/Amps/Hz Measurement & Reporting

PowerCET Operational Skills QuickRef #1

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Instrument Setup

The Volts/Amps/Hertz screen displays a table with important numerical measuring values. The related Trend screen shows the changes over time of all values in the table.

- Connect instrument voltage & current probes to circuit to be monitored
- Power On and press the **SETUP** key. Verify that **Config., Freq. and Vnom** match your hookup. If not, change them to match
- Press the **MENU** key and arrow down to **Volts/Amps/Hz.** Press the **ENTER** Key
- Logging actually starts as soon as you enter this screen. Elapsed time is at the top
- Now you are ready to view the Trend screen and save the recording

Starting/Stopping/Saving Volts/Amps/Hz Trending

- Press **TREND (F4)**. Recording continues until memory fills, unless stopped manually

Ending a Trend recording (manually) and Saving Data:

- Press the **HOLD/RUN** key (F5) to halt recording
- Press the **MEMORY** key. Press **SAVE (F3)**
- Use the arrow keys to name the file (a "dataset") and press **OK (F5)** You must save the dataset, or it will be lost when you leave the trend screen!

Flukeview: Importing Dataset, Printing V/A/Hz Trends

Here you import your monitoring data into your PC and plot trends

- Connect the 434 to your PC and start Flukeview. It should automatically contact the instrument in preparation for data transfer
- Press the **SCOPE** key on the instrument and then **HOLD (F5)**
- Select **Display dataset** from the Instrument menu and then select your data from the datasets on the instrument and click **Start**.
- When the dataset is loaded, select **Save As** from the File menu. Give it a descriptive name and save as a Flukeview (.fvf) file

Plot data from a V/A/Hz dataset, paste graphs into Microsoft Word:

- From the **File** menu, open the dataset containing the harmonics trend plots you captured on the 434
- In the window that opens, click on **View** to display the trend in the 434 simulator window
- From the **Instrument** menu, select **Display Trend**
- In the window, check the boxes next to the plots you wish to display. Click **Start** and wait for the trends to be plotted
- Select a trend window. Zoom in/out and drag the cursors to data points
- Select **Copy Graphics** from the **Edit** menu. Start Microsoft Word and **paste** the trend into your word file at the appropriate spot. Repeat with other trends to fill out your report as needed
- In FlukeView, you can **Save** these trend plots with the dataset, or alone as data files (.csv, .txt) for use with Excel or another graphing program

