

Fluke 433/434 Dips & Swells Measurement & Reporting

PowerCET Operational Skills QuickRef #2

© 2005 PowerCET Corporation, all rights reserved

V.051005

Instrument Setup

The 433/434 Dips & Swells function measures and records records Dips, Interruptions, Rapid Voltage Changes, and Swells. Thresholds for these events are set up on the **Limits** Screens

- Connect instrument voltage & current probes to circuit to be monitored
- Power On and press the **SETUP** key.
- Arrow down to **Limits** and press the **ENTER** key. Press **F3** to edit the limits on the current setup. Arrow key down to **Dips** and Press the **ENTER** key. Adjust the threshold if desired. Press **NEXT (F2)** to move on to **SWELLS**. Adjust the same way and move on to **INTERRUPTIONS** and **RAPID VOLTAGE CHANGES**. Then press **OK (F5)** and then **BACK (F5)**
- If you changed the setup limits, consider **saving** the setup (**F2**)
- Now you're ready to record data

Starting/Stopping/Saving Dips & Swells Recording

- Press the **MENU** key. Arrow key down to **DIPS & SWELLS**. Trending and event capture will begin as soon as you press the **ENTER** key.
- A voltage or current (**F1**) Trend screen displays. Recording continues until memory fills, unless stopped manually
- Pressing **EVENTS (F4)** displays a list of events (if any) for all 4 parameters

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!

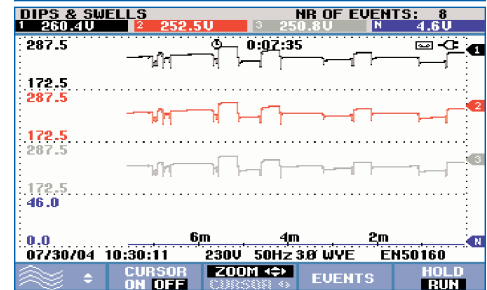
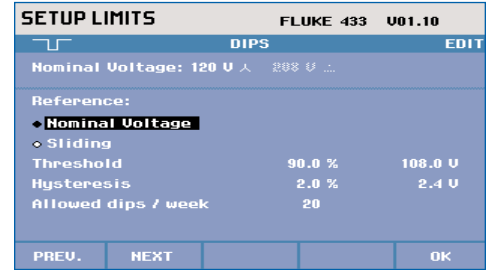
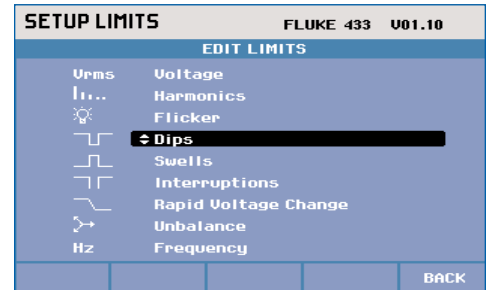
Flukeview: Importing Dataset, Printing Dips & Swells

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 Dips & Swells 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 data in the 434 simulator window
- From the **Instrument** menu, select **Display Events**. This pulls up another window. Click **View** again to open **M. Word** and display a list of events
- In the 434 simulator window, click **TREND (F5)**. From the **Instrument** menu, select **Display Trend**. Select which trends to plot and click **Start**
- Select a trend window. Zoom in/out and drag the cursors to data points
- Select **Copy Graphics** from the **Edit** menu. **Paste** the trend into your **Word** file at the appropriate spot. Repeat with other trends 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



DATE	TIME	TYPE	LEVEL	DURATION
07/30/04	10:23:18:174	L1 SWL	259.9 U	0:00:06:808
07/30/04	10:23:34:782	L1 SWL	257.0 U	0:00:57:892
07/30/04	10:24:39:763	L1 SWL	273.8 U	0:00:26:717
07/30/04	10:25:37:878	L1 SWL	264.6 U	0:00:24:926
07/30/04	10:27:41:019	L1 SWL	254.1 U	0:00:00:060
07/30/04	10:27:41:409	L1 SWL	259.8 U	0:00:24:177
07/30/04	10:29:47:132	L1 SWL	254.6 U	0:00:00:290
07/30/04	10:29:47:721	L1 SWL		

