

Fluke 434 Transient (Waveform) Capture & Reporting

PowerCET Operational Skills QuickRef #7

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Instrument Setup

Here you choose and/or edit a "Setup Limits" file in preparation for transient waveform capture. EN50160 or DEFAULT meet most needs. **Only the Dip, Swell & Interruption thresholds are applicable to transient capture**

- Connect instrument voltage & current probes to circuit to be monitored
- Power On and press the **SETUP** key. Verify Correct Wiring Configuration, **Frequency** and **Vnominal**. Arrow key down to **Limits**, press **ENTER** key to view current limits summary
- If swell, dip and interruption thresholds are acceptable, skip to *Starting/Stopping* below. Else press **RECALL (F1)** to load another limits file, or **EDIT (F3)** to edit the current file and then **SAVE** it (F2) in the User 1 or User 2 memory location.
- Press **BACK (F5)** to return to the setup screen. Verify that the correct setup is shown

Starting/Stopping/Saving Transient Capture

- Press the **MENU** key. Select **TRANSIENTS** and press the **ENTER** key
- Use left/right arrow keys to set voltage and current transient thresholds
- Use up/down arrow keys & **ENTER** key to toggle capture on and off for each parameter. **Turn off parameters not needed-memory is limited!**
- Make sure **Immediate** is selected (black dot next to it)
- Press **START (F5)** to begin the capture session. Monitoring continues until 40 waveforms are captured, unless stopped manually

Ending a Session (manually) and Saving Data:

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

Flukeview: Importing Datasets, Printing Waveforms

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

- 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 waveform captures from a dataset, paste them into Microsoft Word:

- From the **File** menu, open the dataset containing the waveforms you captured on the 434
- In the window that opens, click on **View** to display the waveform in the 434 simulator window. Click on **BACK (F2)**, **PREV (F3)** and **NEXT (F4)**, noting the numbers of the waveforms that you want to plot
- From the **Instrument** menu, select **Display Waveform**
- Select the waveforms and channels you wish to plot from the window
- Click **Start** and wait for the waveforms to be plotted
- Select a waveform window. Zoom in (drag out an area of interest) on the data plot, and drag the cursors to measure waveforms as desired
- Select **Copy Graphics** from the **Edit** menu. Start Microsoft Word and **paste** the graph into your word file at the appropriate spot. Repeat with other graphs to fill out your report as needed
- In FlukeView, you can **Save** these graphs with the dataset, or alone as data files (.csv, .txt) for use with Excel or another graphing program

