

WiFi data download from the Fluke 430 Series II Analyzers

Application Note



Fluke 430 Series II Analyzers offer the best in power quality and energy analysis

The 434, 435 and 437 Series II models help locate, predict, prevent, and troubleshoot power quality problems in three-phase and single-phase power distribution systems and feature revolutionary power quality and energy measurement functions that are logged on a standard SD memory card.

By adding a Toshiba FlashAir™ combined Wi-Fi™ access point and SD memory card (available at popular electronics retailers) users can access logged data easier than ever. When operating inside the Fluke 430-II the card behaves like a standard memory card storing the data as it does to the standard card supplied with the Fluke 430-II. Once measurement or logging is stopped and the data is saved the data can then be retrieved directly from the card by using the Wi-Fi connection of your PC or laptop in conjunction with the Fluke PowerLog application software. This ability to support data download by Wi-Fi is available in PowerLog V4.0 and above, with firmware version 4.0 on the Fluke 430 Series II instrument.

Enabling Wi-Fi downloading in PowerLog

Step one:

To enable downloading by Wi-Fi users can simply change the command that runs the PowerLog program. Once PowerLog is installed the shortcut that starts the program can be edited to enable the Wi-Fi download. To do this first right click on the icon that starts PowerLog and select 'properties,' then select the tab named 'Shortcut' then go to the 'Target' field and add ' -Wi-Fi' to the target behind the last", so it looks like:

"C:\Program Files (x86)\Fluke\PowerLog\PowerLog.exe" -wifi

This is the default directory name, it may be different if this was changed during the original installation.

Step two:

When the Toshiba FlashAir™ is inserted in to the Fluke 430 Series II and powered up the card appears as a Wi-Fi network that your PC or laptop can connect to. Go to your network settings and connect to the network named 'flashair' (the network name will include some specific characters after the network title that are different for each FlashAir card). It may be necessary to provide a network key for the Wi-Fi SD card, the default setting is '12345678', however, consult the documentation supplied with the FlashAir™ card for further details.

Step three:

Now start the PowerLog application software from the file menu and select 'FLUKE 430-II Wi-Fi SD card'. Once selected, the dialog in **Figure 2** appears.

On selecting OK, the standard dialog for downloading data from the instrument will start (see **Figure 3**).

It is now possible to select the required data from the instrument for analysis and reporting as you would normally perform with the PowerLog application software.

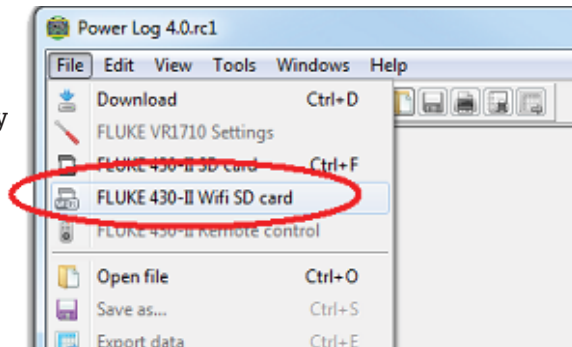


Figure 1: File menu.

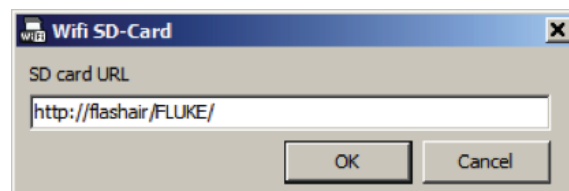


Figure 2: Dialog box that appears after 'FLUKE 430-II Wi-Fi SD card' is selected (see step three).

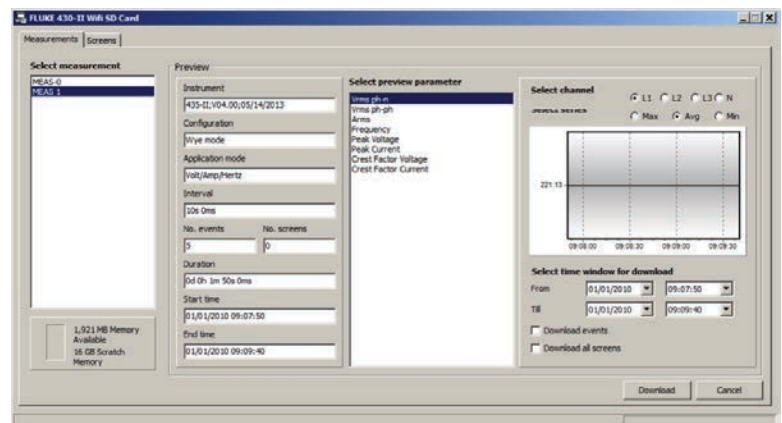


Figure 3: Dialog box that appears after selecting 'OK' in Figure 1 (see step three).

Important points:

- PowerLog version must be at least V4.0
- Firmware version on the instrument must be at least V4.0
- The instrument must be in HOLD and the data saved in the instrument.
- The computer running PowerLog must be connected to the flashair wireless network.

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