

# Fluke 430 Series II Firmware V04.01 Release Notes

Firmware V04.01 can read measurement data created with previous versions of the firmware.  
Firmware V04.01 is compatible with Power Log V4.1

## Version history:

Improvements compared to **V04.00**

- Removed phase to phase voltage in split phase configuration
- Automatically trigger on Amps threshold in Inrush mode to capture event details
- Difference between Vrms result on screen and via interface in transients mode resolved
- Wave Event timestamps corrected for 400 Hz
- Translation issues with Russian Font resolved
- Load Unbalance parameters removed from Logger selection list
- Reset issue resolved when pressing power off button in save dialog window
- Resolved issues with instrument not starting.
- Fixed issues with 0 Events and RMS- WAVE Event key showing strange data
- Falling edge of DIP not shown in RMS- and Wave EVENT tab
- Fixed issue with Monitor trend, not able to move cursor to the newest pixel on screen
- Fixed issues with voltage readings for Logger delta configuration
- Improved data download via USB
- Fixed erroneous power readings for single phase IT configuration
- Fixed SD card error when downloading measurement with event on 434-II
- Fixed issues when more than 9999 events occur
- Improve Energy Loss Calculator layout
- Resolved instrument crash due to a specific input signal
- Improved font for " KVA fund"
- IEEE power shows more data than Unified
- Added PF reading to IEEE power measurement mode
- Fixed Leading/Lagging indicator for IEEE power measurement mode
- Removed power method indication from Energy Loss Calculator function
- Fixed corrupting SD card when turning off instrument during delete
- Fixed Flicker measurement results
- Fixed double readings of VA unbal readings list
- Fixed PF missing trend when IEEE calculation method is selected
- Fixed RMS missing event trend in DELTA mode
- Fixed cursor movement to the right of screen
- Removed reading at neutral for single phase without neutral configuration
- Fixed PF and DPF duplicates
- Fixed trends display for PF and Cos Phi in IEEE power measurement mode
- Improved Energy Loss measurement for residual power loss
- Fixed power readings for single Phase IT configuration
- Fixed IEEE Power readings for delta configuration
- Fixed random shutdown of instruments
- Fixed Phasor diagram for delta configuration and left turning phase sequence
- Fixed incorrect apparent power calculation in single Phase IT configuration (no neutral)
- Fixed Split Phase apparent power calculation
- Fixed Efficiency Factor and Harmonic Pollution readings for PowerLog
- Improved OL detection and extended phase to phase reading above 1000V

#### Improvements compared to **V03.08**

- Fixed issues with timestamps
- Corrected duration of Monitor measurement
- Improved handling of events starting prior to the measurement
- Improved handling of events that ended after the measurement was finished
- Default filename shortened to MEASx
- Corrected setting for averaging time
- Fixed changing settings while in HOLD
- Fixed issues with events in Monitor mode
- Added support for Energy Loss calculation on aluminum cables
- Added support for power measurements according to IEEE 1459 - 2010
- Fixed issues with firmware crash when multiple events occurred during 10 minute sync
- Fixed reference selection for Dips & Swells in setup menu
- Corrected calculation of first Plt reading
- Added support for backup and restore of tasks using PowerLog 4.0
- Added support to display measurement specific information in PowerLog
- Corrected Russian font
- Improved digit scrolling in menus
- Fixed issues when recalling measurement with empty battery
- Fixed issues when recalling Energy Loss measurements
- Fixed issues when recalling Power Wave measurements
- Fixed SD CARD ERROR 1:9:5 for download via USB
- Fixed issues with downloading screens via USB
- Unbalance Power readings removed when using Classic Power measurement method
- Recording length is limited to match averaging time and number of readings selected

#### Improvements compared to **V03.07**

- No functional changes. Version V03.08 was released to support a new hardware board revision

#### Improvements compared to **V03.06**

- Resolved issues with "SD card full" error message when selecting Monitor after power On
- Added test commands for Logger mode for testing 10/12 cycles timestamp with ms resolution to verify IEC61000-4-30 time sync requirements

#### Improvements compared to **V03.05**

- Added support for EN50160 report generation with Power Log 3.4
- Added functionality to discard measurements
- Added functionality to rename measurements when saving
- Improved digit scrolling when entering values using cursor keys
- Added functionality to resume a measurement when power returns after shut down on low battery while measuring
- Reduced the number of default selected parameters in logger
- Event triggering on AMP threshold selected by default when using Inrush function
- Fixed Vrms min, avg and max values not matching cursor values
- Fixed Cursor mismatch at inrush trend
- Added millisecond resolution timestamp to QB remote command

- Fixed logger crash with 150 parameters and 250ms interval time setting
- Fixed missing right trend pixels in 250ms and 0.5s trend mode
- Fixed issues with 32GB SD-card
- Fixed logger maximum duration error

#### Improvements compared to **V03.04**

- Support new Fluke 437-II Power Quality and Energy Analyzer 400Hz
- Added 400Hz measurements for Fluke 437-II
- Added Shipboard function for Fluke 437-II
- Corrected several translations
- Default average time changed from 1s into 10s
- Readings on meter screens are restored after recall
- Harmonics bar graphs and readings are restored after recall
- Improved PowerLog communication speed
- Added Power Wave waveform support for PowerLog
- Improved communication robustness
- Added setup information for PowerLog
- Added scaling information for PowerLog
- Fixed cursor timestamps for RMS events
- Fixed missing unstable flagging indicator after recall
- Improved harmonic phase angle for Flex probes
- Fixed missing power measurement in H-leg configuration
- Fixed Energy Loss Calculator cost always showing “k 0.0000”
- Fixed Transient event not captured in Monitor
- Corrected F4 soft key label for clamp setup to NEUTRAL instead of TOTAL
- Fixed issue with Energy Loss Calculator when changing currency
- Fixed reset issue when turning off demo mode
- Fixed scaling for harmonic rms values
- Improved timing wave event
- Changed setup AMPS SCALING " Range:" to "Clamp range:"
- Several small UI improvements are made

#### Improvements compared to **V03.03**

- Resolved Power readings error clipping to 32767 in Trend view

#### Improvements compared to **V03.02**

- Resolved timing issues with SD-Card to prevent from SD-Card errors
- Corrected algorithm for MetCal Bandwidth verification

#### Improvements compared to **V03.01**

- Improved SD-Card startup
- Corrected Setup Function Pref. menu for Chinese, Korean, Czech and Polish language
- Corrected Czech character set
- Corrected several font issues due to ‘hard’ space
- Corrected menu title for Volts/Amps/Hertz in Russian language