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Readme.txt file

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FLUKE Power Log Software
Version 4.2

Devices currently supported are:

Fluke 43x-II	V04.01
Fluke 43x	V02.10
Fluke 1735	V01.10
Fluke VR 1710	V1.18
Fluke 345	V2.44 (and V1.02)

Power Log is supported on Windows XP, Vista, Windows 7 and Windows 8
(32bit and 64 bit version)

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Power Log 4.2 Improvements:

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- Compatibility Fluke 430-II firmware
 - Power Log V4.2 is compatible with 430-II Firmware V04.01 and later for USB download.
 - Power Log V4.2 is compatible with 430-II Firmware V03.00 and later for reading measurement data from SD-card directly.
 - PowerLog 4.2 is compatible with Fluke 1735 Firmware V1.10
- Installation
 - If there isn't any other Power Log version already installed, Power Log will be installed in "Power Log 4.2" folder by default
 - If PowerLog is already installed, the installer will suggest installing version 4.2 in the existing folder
 - If the user accepts the existing folder, the installed version of PowerLog will be replaced with version 4.2
 - If the user selects another folder, PowerLog will be installed in the selected directory and both versions of PowerLog will be available
- Generic improvements
 - Fixed issue not being able to open some files
 - Improved Spreadsheet filter for THD and fundamental voltage.
 - Added Current to the Spreadsheet filter
 - Fixed issues with unintended automatic updates of the summary data in FPQ files
 - Fixed issues with incorrect Version numbering
 - Fixed issues with Report generation on larger data files
 - Fixed wrong units shown with K Factor
 - Fixed lock up when opening two FPQ files in the same session
 - Some translations corrected
- Improvements for Fluke 430-II series
 - Improved download of Monitor measurement
 - Fixed errors when trying to download parts of a large recording
 - Improved spreadsheet display and export
 - Fixed parameters displayed not being identical to the instrument
 - Fixed Report now showing all RMS Events
 - Fixed Power Wave showing all zero values for Amp on L3/C in Waveform tab
 - Fixed Power Wave Export waveform creating empty files
 - Added TDD calculation according to IEEE 519 based upon THD measurements and Demand load current entry in Summary tab.
 - CSV export compatible to Flukeview Monitor data view has been added.

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- Improvements for Fluke 430-II series
 - Added uploading of limit files in .FVF format
 - Missing last reading in Monitor measurement is resolved with firmware 2.11
 - Application mode is now displayed in Summary page
- Improvements for Fluke 1710
 - V/V% function added to FL1710 firmware and PowerLog.
- Known Issues
 - Opening multiple files in the same session repeatedly reduces the available memory
 - Efficiency Factor readings in High leg topology may result in unexpected errors
 - When zooming in Power Log, graphs draw a horizontal line preceding the actual measured value. For analysis, take into account that the measured value is at the end of the horizontal line, not at the start
 - Summary screen: when using Monitor Mode on the 430-II, the number of events shown in the Measurement Summary includes all events, including events due to Flicker, Harmonics, Unbalance, etc. The Event Summary only shows the events due to dips, swells and interruptions.
 - Events that occur before the first interval is finished are not displayed (430-II series).
 - Cursors are not shown when printing without scaling enabled.
 - Power Harmonics can't be zoomed.
 - Color preferences not always updated.
 - Downloading of several thousands of event profiles may cause error messages.
 - Time selection may cause issues for non-US date and time formats.

Power Log 4.1 Improvements:

- Compatibility Fluke 430-II firmware
 - Power Log V4.1 is compatible with 430-II Firmware V04.01 and later for USB download.
 - Power Log V4.1 is compatible with 430-II Firmware V03.00 and later for reading measurement data from SD-card directly.
- Generic improvements
 - Several user interface improvements including:
 - Wave Event scrollbar improvement
 - Fixed Energy tab UI cut-off
 - Fixed Harmonics: Y scale labels
 - Improved channels update after changing tab
 - Improved automatic numbering for title and filename
 - Fixed horizontal zoom issues
 - Fixed lock up when switching tabs
 - Improved checkbox behavior
 - Fixed cursor labels
 - Fixed invisible toolbars and invisible windows
 - Fixed translation errors
 - Fixed issues with 430-II download preview window
 - Fixed issues with scrollbar "property out of range"
 - Fixed several parameter names and labels
 - Fixed printing issues with cursors
 - Improved Statistics tab to include trend zoom settings for evaluation window
 - File path is 'remembered'
 - Fixed issues with Dips and Swells table not showing all events
 - Improved export of spreadsheet tab to text file

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- User manuals are available via ? (help) menu
 - Improved drag and drop file handling
 - Added mechanism to inform users about updates
 - Fixed Plt timestamps
 - Fixed missing last reading for 430-II Monitor mode
 - Removed export for harmonics >25 for 430-II Monitor
 - Improved Summary tab
 - Fixed number of events not being correct
 - Removed VA Full for 430-II classic power measurements
 - Fixed issues with Spreadsheet - print current page
 - Fixed Efficiency Factor, Logger mode - Graphics are zero
 - Fixed W vs. kW scaling issue with Unbalance Power
 - Improved summary tab for Serial Number and Firmware revision info
 - Fixed incomplete event display
 - Fixed Wave Event export column headers
 - Improved PowerLog un-install
 - Fixed Wave Event timestamps issues for 400Hz
 - Added cleanup for temporarily stxxl files
 - Export files have TAB separation and .TXT extension
 - Improved Event display
 - Fixed PF can Cos Phi selection for 430-II Power and Energy
 - Fixed compatibility issue with 430-II files created with 3.4
 - Fixed issues with old FPQ files and spreadsheet tab
 - Fixed 430-II Dips and Swells and Interrupt timestamps
- Improvements for Fluke 430-II series
 - Fixed SD card error and communication issues
 - Fixed DLL communication problem
 - Improved support for Power Inverter Efficiency mode
 - Improved Monitor mode export
 - Fixed Monitor mode timestamp issues
 - Improved support for High leg configuration showing all four channels
 - Fixed issues for download of energy data
 - Made USB and SD card downloads results identical
 - Improvements for Fluke 430 series I
 - Fixed incorrect data download
 - Fixed displaying event data
 - Improvements for Fluke 1735
 - Added warning message for 1735 firmware compatibility
 - Corrected scaling for Flex 1735 30/300/6000A
 - Fixed 1735 nominal current display in summary tab
 - Improvements for Fluke 1710
 - Improved reporting function
 - Improvements for Fluke 345
 - Fixed Energy not shown for 345

Power Log 4.0.2 Improvements:

- Compatibility Fluke 430-II firmware
 - Power Log V4.0 is compatible with 430-II Firmware V04.00 and later for USB download.
 - Power Log V4.0 is compatible with 430-II Firmware V03.00 and later for reading measurement data from SD-card directly.
- Bug fixing
 - Fixed "Error decoding final_block" issue when downloading via USB (only 430-II).

Power Log 4.0 Improvements:

- Generic improvements
 - Improved Power Log look and feel.
 - File drive database and windowing (allow opening large measurements requires 16GB disk space).
 - Generic speed optimizations.
 - Improved stability and resolved access violation errors.
 - Add information to summary and expanded notes field sizes.
 - Improved file open implementation.
 - Redesigned data export assistant.
 - Open files and folder by dragging them into Power Log window.
 - Zooming, scaling and date selection improvements.
 - Added save images as .PNG option.
 - Added zooming on screens.
 - Updated keyboard shortcuts.
 - Drag files of Fluke folder into Power Log window to open files.
 - Zooming and scaling improvements.
 - Added 24 hour format in date selectors.
 - Zooming and copy/paste of saved screens.
 - QRN file types are no longer supported.
 - Added support for Com port 9 and above.
- Improvements for Fluke 430-II series
 - Support displaying of IEEE 1459 power measurements.
 - Display measurement specific information.
 - New backup and restore tasks functionality.
 - Download measurement improvements with trend preview.
 - Added flagging status to measurements in spreadsheet tab.
 - User feedback while drawing charts.
 - Allows FLUKE folder rename for archiving purpose.
 - Multi Language EN50160 reports.
- Bug fixing
 - Improved Monitor Frequency 10 seconds resolution (for 430-II).
 - Resolved total power clipping (for 430-II).
 - Solved multiple exporting and printing issues.
 - Solved access violating on remote control usage (only 430-II).
 - Improved localization setting and date handling.
 - Fixed Other minor issues.
 - Resolved issues with Statistics tab.
 - Fixed issues when printing the summary page.

Power Log 3.4.1 Improvements:

- fixed 2 exporting problems in Delta configuration
- fixed Total load unbalance angle exporting problem

Power Log 3.4 Improvements:

- New Functionality
 - EN50160 reporting for Fluke 430-II Monitor mode via print report.
- Compatibility Fluke 430-II firmware
 - PowerLog V3.4 is compatible with 430-II Firmware V03.06 and later for USB download.

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- PowerLog V3.4 is compatible with 430-II Firmware V03.00 and later for reading measurement data from SD-card directly.
- Generic improvements
 - Improved stability and fixed access violation errors.
 - User interface improvements and translation improvements.
 - Fixed several cursor issues.
 - Set statistics default parameters.
 - Add publisher Information to Power Log.
 - Improved report scaling and printing.
 - Corrected channels checkboxes not being properly enabled.
 - Corrected Data exporting and saving problems.
- Improvements for Fluke 430-II series
 - Added Unicode folder name support.
 - Add support for Voltage and Current phase angle readings
 - Include Overdeviation, Underdeviation, WPos, WFund, PF, DPF, Cos Phi, Energy Losses parameters in Statistics
 - Support energy loss currency as selected on the instrument
 - Added auto screen update in remote control function.
 - Add support for multiple instruments.
 - Use name of measurement in Power Log.
 - Add SD Fluke 430-II to dropdown menu
 - Added event download for Monitor mode for 50160 report
 - Corrected Monitor mode duration
 - Corrected channel labels in Shipboard mode.
 - Corrected Min/Max values in Monitor mode.
 - Corrected Fluke 43xII Energy loss problems.
 - Corrected Fluke 43xII Energy clipping problems.
 - Corrected cost trends always showing zero.
- Bug fixing
 - Fluke 1710 and 1735 compatibility problems resolved.
 - Resolved double error messages.
 - Other minor problems are resolved.

Power Log 3.3 Improvements:

- Generic improvements:
 - Improved stability and fixed Access violation errors.
 - Fixed memory leakage issues when opening and closing files.
 - Statistics page - default value always displayed.
 - Additional language support for error messages.
 - New direct access Icon for downloading Fluke 430-II data from SD card
- Compatibility Fluke 430-II firmware:
 - PowerLog V3.3 is compatible with 430-II Firmware V03.05 and later for USB download.
 - PowerLog V3.3 is compatible with 430-II Firmware V03.00 and later for reading measurement data from SD card directly.
- New functionality for Fluke 437-II
 - Shipboard mode recordings supported.
 - Support for 400Hz recordings added.
- New functionality for Fluke 430-II
 - Power Wave recordings downloaded.
 - Added events scaling information (firmware versions 3.05 or later).
 - Added measurement name to downloaded data from instrument (replaces default "Recorded data").
 - Added "Save screen as..." option to Screens tab.

- Bug Fixes for Fluke 430-II
 - Fixed timestamp issues.
 - Improved progress bar for download window.
 - Fixed screens downloaded when events is not selected.
 - Improved instrument screen update for remote control.
 - Monitor parameter list now populated correctly.
 - Fixed Download of Monitor mode Events.
 - Fixed Monitor Mode Frequency trend display.
 - Fixed "Access Violation" error when trying to download data from an instrument with no SD Card installed.
 - Checkboxes and radio buttons are only displayed when these parameters are available.
- Summary tab improvements:
 - Fixed number of waveforms displayed.
 - Fixed energy loss count.
 - Added information on Nominal Voltage, Current and Frequency for the 430 Series II (firmware 03.05 onwards).
 - Added instrument serial number For Fluke 430-II.
- Spreadsheet tab improvements:
 - Now displayed in all modes (not just when voltage and/or Current values are present).
 - Added rapid voltage change event information.
- Statistics tab improvement:
 - Improved layout for "Maximum vales" and "Minimum values" to display complete strings.
- Transients tab improvements:
 - Corrected cursors timestamp.
 - Fixed cursors for VR-1710.
- Harmonics tab improvements:
 - Fixed date error in plot data.
 - Corrected cursor selection of maximum and minimum values.
 - Fixed missing minimum value when moving.
 - Fixed display of measurements which only include THD V or THD A measurements.
 - Fixed issue when opening current harmonics from file.
- Energy Loss tab Improvement:
 - Fixed Vertical scale for left axis.
- Wave Event tab improvements:
 - Fixed 200 msec timestamp mismatch.
 - Fixed timestamp displayed at the title.
 - Fixed Waveform export.
 - Corrected cursor information.
 - Fixed resizing of graphs during minimizing and maximizing of windows.
- RMS Event tab improvements:
 - Fixed timestamp error of first pixel.
 - Fixed resizing of graphs during minimizing and maximizing of windows.
- Print report improvements:
 - Fixed landscape printing error.
 - Enabled harmonics checkbox.
 - VoltagePhN, VoltagePhPh, RMSCurrent, Overdeviation and Underdeviation checkbox added for Fluke 430-II
 - Added all voltage and Current Statistics.

- Improved color preference window by adding VoltagePhN, VoltagePhPh, RMSCurrent, Overdeviation and Underdeviation

Power Log 3.2 Improvements:

- Supports old .fpq files.
- Supports download from 345, 43x, 1710 and 1735 instruments.
- Supports download of events from 43x-II instruments.
- Several bugs fixed.

Power Log 3.1 Improvements:

- Support Fluke 434-II and Fluke 435-II.
- Improved Statistics tab.
- Improved Dips and Swells tab

Power Log 3.0

- Version 3.0 was never published

Power Log 2.9.2 Improvements:

- Swedish translations fixed.
- Fluke 430 Series communication error corrected
- New FL435 DLL version: 1.8.0.0
- FL345 DLL version: 11/20/2006

Power Log 2.9 Improvements:

- Works with COM ports 10 and above
- 1735 works with USB
- New setup window for VR1710 includes turning on/off circular memory, setting transient voltage and disabling transients (VR1710 firmware 1.15 required)
- Download waveforms from Scope and Transients mode
- Fixed blank graphs in print report when left axis not set to automatic
- Harmonic max and min values are now the same for histogram and time evolution
- Software registration option added to installer

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- Access violation fixed when going between Harmonics histogram and time evolution
- Downloaded filenames are now unique for the 435
- Energy left axis labels corrected
- Added traditional Chinese and Swedish translations
- Can now import company logo into print report
- Add instrument ID to the summary page
- Disable max and min checkboxes in harmonics time evolution
- Event profile graph in report now has a title
- Enable display of distortion power
- Add display of k factor in harmonics
- Cut, copy and paste working correctly for editing text
- Exported THD values are now the same as displayed values
- Correct problem when saving EMF file
- Downloading speed of 435 increased from 19.2 to 57.6
- New 435 DLL version
- Total energy plots corrected to use average energy
- When printing the spreadsheet, only the columns selected will be printed

Power Log 2.8.2 Improvements:

- New 435 DLL implemented for 435 firmware 2.09
- Support new data tags from 435, kWh, kVAh and kVARh
- Can now download 435 trend data from volts/amps, dips/swells, harmonics, power energy, flicker, unbalance, inrush and mains signaling.
- All 435 saved screens are now downloaded
- Fixed energy axis labels (Wh, VARh, VAh)
- Multiple downloaded 435 data files now have unique file names
- Add registration link to installer
- Add days to label for interruptions that last more than 1 day
- Fixed access violation when selecting last transient event
- Fixed blank graphs when printing report and axis scaling is manual
- When printing spreadsheet, will now only print selected columns

- THD max values are now the same in harmonics histogram and time evolution

Power Log 2.8.1 Improvements:

- Corrected a problem when trying to download data from a VR1710 when using a Czech PC. COM name for VR1710 corrected.
- Added Slovak translations (same as Czech).
- Enabled min/max/avg checkboxes which were disabled in 2.8.
- Corrected a problem when using cursors and zooming causing an access violation.

Power Log 2.8 Improvements:

- New 435 DLL implemented for 435 firmware 2.09
- Support new data tags from 435, kWh, kVAh and kVARh
- Can now download 435 trend data from volts/amps, dips/swells, harmonics, power energy, flicker, unbalance, inrush and mains signaling.
- All 435 saved screens are now downloaded
- Fixed energy axis labels (Wh, VARh, VAh)
- Multiple downloaded 435 data files now have unique file names
- Add registration link to installer
- Add days to label for interruptions that last more than 1 day
- Fixed access violation when selecting last transient event
- Fixed blank graphs when printing report and axis scaling is manual
- When printing spreadsheet, will now only print selected columns
- THD max values are now the same in harmonics histogram and time evolution

Power Log 2.8.1 Improvements:

- Corrected a problem when trying to download data from a VR1710 when using a Czech PC. COM name for VR1710 corrected.
- Added Slovak translations (same as Czech).
- Enabled min/max/avg checkboxes which were disabled in 2.8.
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Power Log 2.8 Improvements:

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- cursor function has been redesigned: switch cursor on/off by double click into the curve area. Cursors will follow the mouse and display time stamps and measurement data accurately.
Note: when viewing large files, PowerLog has to aggregate measurement points so that a campaign fits into the window. In this case, zoom in to a level at which a screen pixel represents one data item at a maximum for cursor readouts to exactly match the spreadsheet values.
- redesigned legend function. Legends can be switched on/off in the view menu, to give more space to trace data view if no legend is required.
- 1735 min/max results for "power" mode have been added. PowerLog 2.8 requires Fluke 1735 firmware revision 01.06. Please note that upgrading your instrument erases all data from the instruments memory. PowerLog 2.7 must be used to read data from instruments that have a firmware revision prior to v01.06 installed.
- corrected manual scaling: occasionally the scale top value was not displayed.
- in some instances, auto scaling only worked on channel one (Volts&Amps tab) and the other channels were not scaled correctly. Corrected.
- removed unintentional zoom operation when clicking beneath the context menu opened by left-mouse button click on a vertical scale.
- improved zooming in on 1710 transients.
- changed PowerLog's default file extension to ".fpq" instead of ".qrn" Existing .qrn files can still be read.
- improved scaling and cursor readout of F345 "Power Factor" results.
- corrected access violation when trying to export F435 harmonics data.
- corrected a bug that resulted in a wrong number of RMS intervals in reports made from 1710 data.
- corrected counting of events in 1710 data.

Power Log 2.7.1 Improvements:

- New translation Turkish
- Revision Code displayed in Window Title Bar

Power Log 2.7 Improvements:

- New translations, Czech, Polish, Romanian and Russian
- Zoom level limited to eliminate zooming errors
- Access violations solved when opening multiple data windows
- Translation errors fixed in German and Chinese
- VR1710 Transient scaling corrected
- Added THD to VR1710 Harmonics tab

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- 435 and 1735 THD scaling corrected
- Multiple recording intervals in same data set not allowed for VR1710
- When exporting data, events are stored separately to correct file formatting
- Warning added if exporting data to an existing file
- VR1710 channels renamed to L1 and N
- VR1710 non-recording time (intervals without measurements) blocked out on plots
- 345 disconnecting after download fixed
- Context windows displayed at cursor are not covered by main window
- Remove unbalance scale on Frequency/Unbalance tab when Unbalance not available
- More options for plot colors in preferences
- Energy tab labeling corrected for Wye mode
- Improved options for Energy display
- Summary tab window scaling corrected
- Milliseconds added to spreadsheet tab
- Right axis vertical scale disabled when right axis not used
- Print report formatting corrected
- Harmonic histograms reformatted to prevent overlapping
- Transient zooming has zoom restore
- Spreadsheet tab scrolling corrected

Power Log 2.7(.1) Known Issues:

- COM port used must be COM1 to COM9
- Disconnecting USB cable during communication can create an error
- 1735 event duration calculation not correct
- Deleting a 435 .dat file when 2 .dat files are open causes an access violation
- When exporting harmonics data, blank timestamps are displayed
- Zooming to a blank screen possible on some tabs

Contacting Fluke

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