

## Fluke 1736/1738 Firmware V2.0 Release Notes

Date: 27 Jan 2016

### New Features:

- Initial release for Fluke 1738.
- Phasor added in *Meter - Verify Connection*.
- Voltage Unbalance is now available in Phasor screen.
- Support for licenses added: 1736/Upgrade, IEEE519 and WiFi-Infrastructure.  
Note: Reset to factory defaults from *Tools* menu retains installed licenses. Press <Meter> – <Logger> – <Memory/Settings> at startup to remove licenses.
- Event detail screen added. Details of an event are now shown when an event is selected with <Save/Enter>.
- Limit lines added in *Logger - PQ Graphs*.
- Add support to use up to two Fluke Connect® modules FC 3000 series for the auxiliary input channels (Fluke 1738 for US, CAN and EU market only).
- Views added in *Meter – Scope* to show voltage and current of a phase simultaneously.
- Features of Fluke 1738 and 1736/Upgrade license added:
  - Limit assessment for voltage harmonics according to EN50160 in *Meter – Harmonics*.
  - Limit assessment for voltage harmonics according to EN50160 in *Logger – Harmonics*.
  - Wave shape and RMS profile recordings on events added.
  - *PQ Health* screen added.
- Features of IEEE 519 license added:
  - Selection of IEEE 519 and configuration of  $I_{SC}$  and  $I_L$  in *Meter – Change Configuration* added.
  - Limit assessment for voltage and current harmonics in *Meter – Harmonics*.
  - Limit assessment for voltage and current harmonics in *Logger – Harmonics*.
  - TDD (total demand distortion) added. It is shown in *Harmonics – Current Limit* in *Meter* (live values) and *Logger* (logged values).
  - Voltage harmonics bars based on IEEE 519 limits in *PQ Health* screen added (on 1738 or 1736 with 1736/Upgrade license).
- Features of WiFi-Infrastructure added:
  - Option to connect to an access point in *Instrument Settings – Tools – WiFi configuration* added. Supported authentication: WPA2-PSK (pre-shared key).  
Go to item “Name (SSID):” and press <Save/Enter> when status shows “scanning” to select an access point from the list.

### Improvements:

- Precision of values shown in Fluke Connect® app aligned to precision shown on the Logger.
- Noise on Aux-1 input reduced.
- Ability to review Aux configuration during a logging session added.
- Service data includes now additional log files

- Radio icon in status bar replaced by Fluke Connect® icon.
- Navigation in event overview list significantly improved.
- Selection of the harmonic to plot with <F2>/<F3> improved.

**Bugfix:**

- Bug fixed that an event sometimes started earlier or ended later than the logging session.
- When using VNC for remote control the cursor keys sometimes did not open the side menu. This bug has been fixed.

**Known issues:**

- Measurement Configuration – Aux:
  - A Fluke Connect® module remains in the list of available modules even when it has been turned off or it is out of range.
  - Occasionally the model number of a Fluke Connect® module is not shown. The module can be selected though and the Aux channel eventually shows the correct configuration:  
*IDn - <FC module>*
- On a Fluke Connect® module which supports measurement of different parameters, e.g. T3000FC can be configured to measure either °C or °F, select the measurement parameter on the module first before establishing a connection.
- The maximum number of events per logging session is limited to 5000.
- The number of event records depends on the size of the logging session and is in the range of 100 to 1000 for each, wave shape and RMS profile.
- Remote control using VNC:
  - The backspace key on the virtual keyboard and keyboard of the client sometimes does not work. Select the text and press the delete button on the client instead.
  - The number and backspace keys on the client do not work for the numerical keyboard. Use the virtual keys instead.

## Fluke 1736 Firmware V1.1 Release Notes

Date: 18 Sep 2015

### Improvement

- The detection of the tapped position on the touch screen has been improved.

### Bugfixes

- Occasionally some instruments showed a serial number “0000000” in *Memory/Settings – Instrument Settings - Info*. This has been fixed.
- In delta topologies (Delta, 2 Element Delta, High Leg Delta, Wye IT, and Delta Balanced) the virtual phase-to-neutral voltage was recorded for *PQ Data – Voltage* in V1.0. The phase-to-phase voltage is now recorded instead.
- The Wye icon in *Meter* side menus has been removed in single phase and split phase topologies.
- The readings in upper right corner of *Meter – Harmonics* and *Logger – Harmonics* are now grouped to show the same unit for all phases.
- The y-axis scaling in *Meter-Harmonics* has been improved to scale to the highest bar. Note that scaling is applied on THD or the highest harmonic, excluding the fundamental (h01).
- The items in the list box in *Meter – Change Configuration – Events* are now localized.
- The position of the x-axis tick marks in *Meter – Scope* matches now with the input signal frequency.

## Fluke 1736 Firmware V1.0 Release Notes

Date: 31 Aug 2015

### Initial Release