



RecordGraph

v5.1a

Release Description

DESCRIPTION

This release corrects an issue where export to CSV failed for records with some input types.

FEATURE ENHANCEMENTS

- None.

CORRECTIONS TO ISSUES

- **Major:** Correct issue where export to CSV fails from records that contain inputs from any of the following:
 - Model 401025 – 1A/5A CT Input Module
 - Model 401026 – 69Vac PT Input Module
 - TESLA LITE CT Inputs



COMPATIBILITY:

Compatible with records produced by:	B-PRO 4000: v2.0 or earlier B-PRO 8700: v4.0 or earlier B-PRO 8701: v3.0 or earlier F-PRO 4000: v1.0 F-PRO 5100: v4.0 or earlier F-PRO 215: v1.7 or earlier F-PRO 216: v1.1 or earlier F-PRO 235: v2.2 or earlier F-PRO 295: v1.2 or earlier F-PRO 297: v1.0 L-PRO 4000: v2.5 or earlier L-PRO 2150: v1.1 or earlier L-PRO 2100: v5.0 or earlier S-PRO 4001: v2.0 or earlier S-PRO 4000: v1.0 T-PRO 4000: v1.2 or earlier T-PRO 8700: v5.0 or earlier TESLA 4000: v1.9 or earlier TESLA 3000: v2.7 or earlier TESLA 2000: v4.1 or earlier TESLA 4003: v1.0 TESLA LITE: v1.1 or earlier
Compatible with Microsoft Windows	Windows 7 Professional Windows 10 Professional

Minor releases, designated with a letter suffix (e.g. v3.1a), maintain the same compatibility as the base version (e.g. v3.1=v3.1a).



REVISION HISTORY

v5.1 - 2017-03-31

- **Enhancement:** df/dt derived channel calculation added to CDR (Continuous Data Recording) record export to CSV, COMTRADE and PTI formats.
- **Enhancement:** Power Factor derived channel calculation added for CDR and Swing record export to CSV, COMTRADE and PTI formats.
- **Enhancement:** Option provided to select Time Tag (UTC or local time) in CDR, Swing and Fault records exported to CSV.
- **Enhancement:** Add support for the F-PRO 297 Feeder Protection Relay
- **Enhancement:** TESLA derived channel calculations cached in RAM instead of being appended to the source record to preserve the original record unmodified.
- **Major:** Correct issue where df/dt derived channel could not be exported from a Swing record.
- **Minor:** Corrected issue with Swing records where all channels were exported even if only a few channels were selected.

v5.0 - 2016-12-18

- **Enhancement:** Add compatibility with records created by units that support leap second.

v4.9 - 2016-06-08

- **Enhancement:** Initial release of the RecordGraph as a stand-alone Windows installer.
- **Enhancement:** Initial release of the RecordGraph User Manual.
- **Enhancement:** Added sub-harmonic calculations using 5Hz resolution to provide more accurate results when analyzing records with a shorter duration of transients. The user can select either 1Hz (1s) or 5Hz (0.2s) resolution.
- **Enhancement:** Added a user selectable option to enable or disable a high pass filter to remove the sub-harmonic components of a waveform, allowing more accurate representation of the fundamental and harmonic components.
- **Enhancement:** Added an option for the user to choose the reference channel for phase angle calculations in the Phasor and Symmetrical Component views.
- **Enhancement:** Added support for viewing and saving setting files corresponding to ERL records.
- **Enhancement:** Added the ability to open records by double clicking on them.
- **Major:** Corrected issue with accuracy of TSHD (Total Sub-Harmonic Distortion) calculation.
- **Major:** Corrected issue with RG crashing when displaying the harmonic measurement of a record with a sampling rate of 384 samples per cycle.
- **Minor:** Corrected issue with the R-X plot being shown one cycle later than the corresponding sampled data.
- **Minor:** Corrected issue where COMTRADE export selection is unavailable for a T-PRO 4000 trend record.
- **Minor:** Corrected issue where the serial number of the IED is not displayed in the Template Tool Tip information.



- **Minor:** Corrected issue where Watt/Var reading is displayed with incorrect polarity on high speed recordings.
- **Minor:** Corrected issue where positive sequence current channels were not included in a low speed COMTRADE export.



CLASSIFICATION OF CHANGES MADE

The issues fixed in software / firmware upgrades are classified as defined below. While the decision to upgrade installed products is the user's, these classifications provide a guideline for the need and priority of the upgrade.

Critical: Critical changes fix issues/problems that prevent the basic operation of the device and have no workaround. Critical changes merit a product upgrade as soon as possible, if that function is being used under the conditions causing the issue

Major: Major changes fix problems that prevent the basic operation of the device but do have a workaround. Any major changes merit a product upgrade as soon as possible if the function is being used under the conditions causing the issue and a workaround is not acceptable.

Minor: Minor changes fix non vital issues that do not prevent the basic operation of the device and may or may not have a workaround. Product upgrades for such changes are not necessary unless they apply to and are needed by the user.

Feature Enhancement: Feature enhancements add a capability or extend existing capabilities of the product. Upgrades for such changes need be made only if and when that feature enhancement is desired.