F-PRO295

Firmware v1.5a

Release Description

DATE: 2025-04-30

FEATURE ENHANCEMENTS

- Cyber Security:
  - None.
- General:
  - Added the ability to download the Syslog file via USB when connected with a maintenance login.

CORRECTIONS TO ISSUES ENHANCEMENTS

- Cyber Security:
  - None.
- General:
  - **Major:** Fixed issue where the IED became unresponsive after being in service for a prolonged period when time is synchronized with SNTP time source.
  - **Major:** Fixed issue where the IED became unresponsive after prolonged service with continuous voltage and current injection.

COMPATIBILITY:

F-PRO Offliner Software	v2.6 or above
Relay Control Panel Software	v2.9 or above
RecordGraph Software	v5.4a or above
ERL 61850 IED Configurator Software	v2.2 or above
ICD File Version	v3.1 Rev 1
Setting Version	4
F-PRO 295 User Manual	V1.6 Rev 0

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

v1.5 – 2019-07-18

- **Enhancement:** Added support for service access over Ethernet communication.
- **Enhancement:** Added support for DNP3.0 protocol.
- **Enhancement:** Added support for LCD back-light time out after the event popup.
- **Enhancement:** Added support for IRIG-B & Daylight Saving Time settings in LCD-HMI.
- **Critical:** Fixed issue where relay hangs while recording after a period of time.
- **Critical:** Improved syslog file logging after exception is thrown.
- **Major:** Fixed issue in LCD/HMI where wrong time was displayed when set to Local Time with Daylight Saving Time.
- **Major:** Fixed issue in IEC61850 where after a relay power cycle, the last fault information is not available in MMS client.
- **Minor:** Fixed issue in IEC61850 where 59IT-2 General Pickup updates for 59IT-1 instead of 59IT-2.

v1.4 – 2018-05-16

- **Enhancement:** Implemented SNTP time synchronization.
- **Enhancement:** Implemented single phase LED configuration
- **Enhancement:** Implemented single phase DO configuration
- **Critical:** Fixed issue in 24IT TMS setting for inverse curve.
- **Critical:** Fixed issue in 24 function operation in ph-ph setting.
- **Major:** Fixed issue in wrong V/F value in metering.
- **Major:** Added user defined curve setting in 24IT function
- **Major:** Fixed issue in Interfacing Time sync status to IEC61850 TimeQuality tag.
- **Major:** Fixed issue in Interfacing 79 IN not updating RCP metering.
- **Major:** Fixed issue with Implementation of IRIG-B and SNTP indication to Modbus and IEC103.
- **Major:** Fixed issue in 64/50 & 64/51 SEF FWD & REV not pickedup for values less than 40 mA
- **Major:** Fixed issue in time goes back and forth when SNTP is disabled.
- **Major:** Added configurable minimum voltage threshold
- **Major:** Enhancement to display of "Rebooting" text in LCD-HMI after IP change.
- **Major:** Added time sync LED configuration in LED matrix.
- **Major:** Enhancement on Backing up and Restoring the Setting files.
- **Major:** LCD HMI - Date & Time is made non-editable when SNTP / IRIG-B is present.
- **Major:** Fixed issue in IEC61850- after relay power cycle, last fault information is not available in MMS client.
- **Major:** Fixed issue in 27mHz error at 50Hz in metering.
- **Minor:** Fixed issue for text capitalization of first letter in menu caption.
- **Minor:** Provided time sync indication in LCD-HMI
- **Minor:** Added few other time settings in LCD-HMI as RCP.
- **Minor:** Provided display of ‘Booting’ message at startup of the relay.
- **Minor:** Fixed issue in LCD-HMI communication port number as relay connection.
- **Minor:** Fixed issue in LCD HMI parameter update to change in frequency.
- **Minor:** Fixed issue in RecordGraph for SNTP time sync status.
- **Minor:** Naming corrected from ANSI to IEEE in 24IT curve function.

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**.**