F-PRO 297

Firmware v1.3

Release Description

DATE: 2025-04-30

FEATURE ENHANCEMENTS

- Cyber Security:
  - None.
- General:
  - Added support for displaying Event Log in the DNP 3.0 Protocol.
  - Added ability to control LED and Virtual Inputs via service login.
  - Added ability to update firmware via the rear Network port.
  - Added ability to download the Syslog file when connected via the rear Network port.

CORRECTIONS TO ISSUES

- 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 the SNTP time source.
  - **Major:** Fixed issue where the IED became unresponsive after prolonged service with continuous voltage and current injection.
  - **Minor:** Fixed issue where SNTP Sync was not working for the second SNTP server IP.

COMPATIBILITY:

F-PRO Offliner Software:	v3.3 Rev 0 or above
Relay Control Panel Software:	v3.6 Rev 0 or above
RecordGraph Software:	v5.3 or above
RecordBase Central Station Software:	v4.1 or above
RecordBase View Software:	v4.2 or above
ERL 61850 IED Configurator Software:	v2.2 or above
ICD File Version:	v3.1 Rev 1
Setting Version:	4
F-PRO 297 User Manual:	v1.3 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).

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REVISION HISTORY

V1.2 – 2021-08-26

- **Enhancement:** Improved the firmware update process to improve user experience and increase robustness.
- **Enhancement:** Removed IP Address setting from the Setting File to prevent the user from inadvertently changing the IP address and losing connection to the IED when changing other settings. The IP Address can be configured via the IED front panel display or the newly added maintenance terminal via USB.
- **Enhancement:** Added a maintenance terminal to facilitate management of network parameters and utilities, system diagnostics, and restoring default settings. This terminal is accessible via the front panel USB port. Refer to the product manual for details.
- **Major:** Fixed issue where External Inputs (EIs) were used incorrectly when selected as ProLogic inputs:
    - Selecting EIs 8 or 13 resulted in these inputs being ignored.
    - Selecting EI 5 resulted in EI 6 being used.
    - Selecting EI 7 resulted in EI 6 being used.
    - Selecting EI 8 resulted in EI 7 being used.
    - Selecting EI 14 resulted in EI 13 being used.
- **Major:** Fixed issue where the front panel user interface became unresponsive when the 27 function was enabled and the system frequency deviated from nominal by more than 5Hz.
- **Minor:** Fixed issue where the names for ProLogic metering channels were incorrectly displayed in Relay Control Panel when configuring multiple setting groups.
- **Minor:** Fixed issue where RecordGraph always displayed SG01 for all ProLogic channels.
- **Minor:** Fixed issue where the status of Virtual Inputs were reset when the IED was restarted.
- **Minor:** Fixed issue where the Modbus-ASCII protocol communication was unresponsive to the master.
- **Minor**: Fixed issue where fault records were extended beyond the maximum record length if fault trigger conditions continued to occur before the end of the recording.
- **Minor**: Fixed issue where IED time was displayed as one hour earlier than the actual time when the relay was synchronized to an SNTP server.

v1.1 – 2019-07-19

- **Enhancement:** Added support for DNP3.0 protocol.
- **Enhancement:** Added support for 32 and 37 functions.
- **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:** Improved syslog file logging after exception is thrown.
- **Major:** Fixed issue in IG and ISEF primary value shown in RecordGraph.
- **Major:** Fixed issue in LCD/HMI where wrong time was displayed when set to Local Time with Daylight Saving Time.

v1.0 – 2018-03-14

- Initial release.

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**.**