



F-PRO235

Firmware v2.4

FEATURE ENHANCEMENTS

- Implemented SNTP time synchronization.
- Implemented single phase LED configuration
- Implemented single phase DO configuration
- Implementation of 27/59 protection functions.

CORRECTIONS TO ISSUES

- **Major:** Fixed issue in interfacing time sync status to IEC61850 time quality tag.
- **Major:** Fixed issue with Implementation of IRIGB and SNTP indication to Modbus and IEC103.
- **Major:** Fixed issue in time goes back and forth when SNTP is disabled.
- **Major:** Enhancement to display of "Rebooting" text in LCD-HMI after IP change.
- **Major :** Added configurable minimum voltage threshold
- **Major:** Added time sync LED configuration in LED matrix.
- **Major:** LCD HMI - Date & Time is made non-editable when SNTP / IRIGB is present.
- **Minor:** Provided rollover scrolling from Last to First Menu in LCD-HMI
- **Minor:** Provided display of 'Booting' message at start up of the relay.
- **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.

COMPATIBILITY:

F-PRO 2000 Offliner Settings Software:	v2.2 or above
Relay Control Panel Software:	v2.8 or above
RecordGraph Software:	v5.2 or above
ERL 61850 IED Configurator:	v2.1 or above
ICD File Version:	v3.1 Rev 1

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).



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.