



L-PRO 4000

V2.5b

Release Description

FEATURE ENHANCEMENTS

- Add support for enhanced hardware for production use.
- Improved Zone-1 reach accuracy for remote end faults if a series capacitor is enabled.
- Improve performance of 79 lockout with 1-ph recloser under 3 phase fault conditions.

CORRECTIONS TO ISSUES

- **Critical:** Correct issue where operation of Switch On To Fault (SOTF) function due to presence of 2nd Harmonic is not blocked, even when 2nd harmonic blocking setting was enabled.
- **Major:** Correct issue where the load encroachment impedance setting for the left hand side (LHS) was used for both the left and right sides. If symmetrical settings are used, this has no effect.
- **Major:** Correct issue of incorrect priority scheme reclosing with persistent faults.
- **Minor:** Correct issue where 79 auto recloser chatters under certain test conditions.

COMPATIBILITY:

Compatible L-PRO 4000 Offliner Settings Software:	v2.6 or above
Compatible Relay Control Panel Software:	v2.5 or above
Compatible RecordBase View Software:	v3.2 or above
Compatible ERL 61850 IED Configurator:	v2.0 Rev 1 or above

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

v2.5a - 2015-05-11

- **Major:** Correct issue with 21P and 21N operation at low levels.

v2.5 - 2015-02-14

- **Enhancement:** Series Compensation functionality
- **Enhancement:** Second definite time stage for Main & Auxiliary Overvoltage
- **Enhancement:** Phase segregated trip information in data recording, accessible through Prologic and Output Matrix
- **Enhancement:** Elimination of 50BF Breaker Fail Auxiliary Circuit Breaker ring bus interlock
- **Enhancement:** Virtual Input option for 52CB function
- **Enhancement:** Auto-recloser scheme modification (refer to manual for operation details)
- **Enhancement:** Tilt angle setting into QUAD characteristics 21 P/N functions
- **Enhancement:** User interface enhancements for new feature support and general functional improvement.
- **Enhancement:** LED and metering enhancements
- **Enhancement:** DC removal filter for overcurrent elements
- **Enhancement:** Dual SNTP time server support
- **Enhancement:** IEC 61850 and DNP communications enhancements and corrections.
- **Enhancement:** Supports IRIG external clock sources compliant with C37.118-2005

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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.