



B-PRO 4000

Firmware v2.0d

Release Description

FEATURE ENHANCEMENTS

- None.

CORRECTIONS TO ISSUES

- **Major:** Enhanced the security of 87B/87T during the clearing of simultaneous, close-in external faults occurring along with extensive current transformer saturations on systems with multiple feeders connected to the bus/transformer.
- **Major:** Enhanced the security of 87T during unbalanced external faults occurring under lightly loaded conditions.

COMPATIBILITY:

B-PRO 4000 Offliner Settings Software:	v2.0 or above
Relay Control Panel Software:	v1.3 or above
RecordBase View Software:	v2.5 or above
ERL 61850 IED Configurator	v2.0 Rev 1 or above

Minor releases, designated with a revision (e.g. v3.4 Rev 1), maintain the same compatibility as their base version (e.g. v3.4 Rev 0).

ERLPhase Power Technologies Customer Support Contact Information

support@erlphase.com

204-477-0591 x1

www.erlphase.com



REVISION HISTORY

v2.0c - 2014-01-13

- **Enhancement:** Support added for alternate Flash device configuration on the product main processor board, due to manufacturer component obsolescence.
- **Major:** Elimination of potential conflicting error mode processing in 50Hz systems due to internal systems communications loss/restart cycle impacting "Relay Functional" status.
- **Major:** Correction of long-term memory overrun condition due to settings use with ProLogic and Virtual Inputs inhibiting proper reboot on unit power cycle.

v2.0a - 2012-10-18

- **Enhancement:** Introduced front panel display update filter when displaying trip events.
- **Enhancement:** Modified time display format on front panel display from "hh:mm:ss" to "hh:mm".
- **Enhancement:** Modified record extension rules to allow for up to 2x the user-configured record length.
- **Minor:** Maintenance utility now displays MAC addresses for both network ports.

v2.0 - 2011-12-23

- **Enhancement:** Added support for Relay Control Panel.
- **Enhancement:** Added support for LCD front panel display.
- **Enhancement:** Added support for configurable Target and Alarm LEDs.
- **Enhancement:** Added support for configurable pre-fault time and event auto save.
- **Enhancement:** Added output contact high speed recording and ProLogic inputs.
- **Enhancement:** Improved IEC61850 support.
- **Enhancement:** Added IRIG-B signal loss reports via output contacts, metering, recording and DNP3.
- **Major:** addressed DNP3 issue with Binary Inputs points not reporting correctly.
- **Major:** addressed issue on timestamping virtual input changes.
- **Major:** corrected DC alarm/blocking sensitivity issue.

ERLPhase Power Technologies Customer Support Contact Information

support@erlphase.com

204-477-0591 x1

www.erlphase.com



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.

ERLPhase Power Technologies Customer Support Contact Information

support@erlphase.com

204-477-0591 x1

www.erlphase.com