



## B-PRO 4000

### Firmware v2.1

## Release Description

**DATE: 2020-06-12**

### FEATURE ENHANCEMENTS

- Cyber Security:
  - Added a message to the event log for user login attempts.
  - Removed “View” user password requirement on the front panel so that users may access read-only parameters without needing to login using a password.
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- General:
  - Updated the default setting file to disable LEDs from ProLogic settings.
  - Optimized event handling on the display to improve performance when the IED is heavily loaded.
  - Improved ability to recover from cases where the front screen goes blank or is disturbed after extreme transient conditions.

### CORRECTIONS TO ISSUES

- None.

### COMPATIBILITY:

|                                       |                     |
|---------------------------------------|---------------------|
| B-PRO 4000 Offliner Settings Software | v2.0 or above       |
| Relay Control Panel Software          | v1.3 or above       |
| RecordBase Central Station Software   | v4.1 or above       |
| RecordBase View Software              | v2.5 or above       |
| RecordGraph Software                  | v4.1 or above       |
| 61850 IED Configurator Software       | v2.0 Rev 1 or above |
| ICD File Version                      | v1.0 Rev 09         |
| B-PRO 4000 User Manual                | v2.0 Rev 5          |

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).

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## REVISION HISTORY

### v2.0d – 2018-08-24

- **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.

### 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.

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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.