



S-PRO 4000 (Model 4001) Firmware

Firmware v2.1

Release Description

DATE: 2021-04-30

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.
- **General:**
 - Reduced the minimum allowable setting of the Main and Auxiliary Voltage detectors down to 0.1% from 1%, with a resolution of 0.1%.
 - Improved ability to recover from cases where the front screen goes blank or is disturbed after extreme transient conditions.
 - Optimized event handling on the display to improve performance when the IED is heavily loaded.
 - Added the ability to switch between the target event screen and the menu screens on the front panel display to prevent target events from locking the screen.
 - Added support for C37.118-2011 compliant IRIG clock sources.
 - Updated the default setting file to disable LEDs from ProLogic settings.

CORRECTIONS TO ISSUES

- **Cyber Security:**
 - None.
- **General:**
 - None.

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COMPATIBILITY:

S-PRO Offliner Settings Software:	v2.2 or above
Relay Control Panel Software:	v2.7 or above
RecordBase View Software:	v3.4 or above
RecordBase Central Station	v4.1 or above
RecordGraph Software:	v4.9 or above
ERL 61850 IED Configurator:	v2.0 or above
ICD File Version:	v3.0 Rev 01
S-PRO 4000, Model 4001, User Manual	v2.1 Rev 0

Minor releases, designated with a letter suffix (e.g. v3.1a), maintain the same compatibility as their base version (e.g. v3.1=v3.1a).

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REVISION HISTORY

v2.0a – 2016-01-04

- **Enhancements (General):** Enhanced system diagnostic file retrieval speed via network ports.
- **Critical:** Enhanced error handling when setting files are corrupted or missing.

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.

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.

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