



## **T-PRO 4000**

### **V1.2b**

## **Release Description**

### **FEATURE ENHANCEMENTS**

- Add support for enhanced hardware for production use.

### **CORRECTIONS TO ISSUES**

- None.



**COMPATIBILITY:**

Compatible T-PRO 4000 Offliner Settings Software:	v1.3 or above
Compatible Relay Control Panel Software:	v2.5 or above
Compatible RecordBase View Software:	v3.2 Rev 1 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

### v1.2a - 2015-02-14

- **Enhancement:** Supports IRIG external clock sources compliant with C37.118-2005.
- **Enhancement:** Directional earth fault 67N protection feature addition.
- **Enhancement:** Phase segregated trip information in data recording, accessible through Prologic and Output Matrix.
- **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.
- **Major:** Corrected date processing when time source is internal clock.
- **Major:** IEC 61850 and DNP communications enhancements and corrections.

### v1.2 - Not Released

### v1.1 - 2014-05-05

- **Enhancement:** Zig Zag transformer configuration support.
- **Enhancement:** Device GUI enhancements for new feature support and general functional improvement.
- **Major:** Modification to trend metering channel definition structure eliminating potential for unit soft restart under successive setting file loads. Firmware update is recommended.
- **Major:** Adjusted Modbus RTU Communication Protocol scaling factor for Read Holding Registers to compensate for higher turns ratio.



## 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.