# T-PRO 8700 Transformer Protection Relay

## Firmware v5.0

## Release Description

### DESCRIPTION

T-PRO 8700 firmware release to enhance cyber security capabilities.

### FEATURE ENHANCEMENTS

- Added a security administrator user with local and remote access, having sole control of mandatory passwords for all users. Removed password change rights for all other users.
- Added requirement that all users must have a password. A zero length password is no longer accepted.
- Added cyber security event logging to an external syslog server. Syslog server message protocol is compliant with RFC 5424 and RFC 5426.
- Disabled all unused TCP ports. Only telnet port (port 23) remains enabled.
- Maximum password length increased to 22 characters.
- Added 5 minute login lockout after 7 consecutive failed login attempts.
- Added subnet mask and default gateway IP address preservation during firmware update.
- Added capability to preserve all relay setup parameters during Firmware update.

### CORRECTIONS TO ISSUES

- **Minor**: Made some text corrections on the maintenance menu screen: item 5 text was too long and being truncated; missing '*' indicator for items that are only accessible on port 1.
- **Minor**: Corrected issue where maintenance System Utility screen referred to incorrect support email address.

### COMPATIBILITY:

| | |
|---|---|
| Compatible T-PRO 4000 Offliner Settings Software: | v1.1 or above |
| Compatible RecordBase View Software: | v3.1 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).

## 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**.**