

745 Transformer Protection System

Revision 2.85 & 4.01 release notes

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Overview

Summary

GE Multilin releases the 745 version 2.85 & 4.01. . Highlights of this release include:

- Enhanced Differential Block algorithm
- Improved power metering

This document contains the release notes for versions 2.85 & 4.01 of the 745 Transformer Protection System

- Date of release: Dec 12, 2006
- Firmware revisions: 2.85 & 4.01

Description

The versions 2.85 & 4.01 release is compatible with the Enervista 745 Setup Program version 5.00

Release Details

In the following change descriptions, a revision category letter is placed to the left of the description. Refer to the appendix at the end of this document for additional details.

Modified Features

D Enhanced Differential Block LED

Differential Block algorithm improved to avoid Differential Block LED indication during low transformer current (<10% CT).

C Improved power metering for low MVA transformer

Adaptive scaling based on transformer MVA rating to provide accurate power measurements for low MVA transformers.

Appendix

Change Categories

This document uses the following categories to classify the changes

Table 1: Revision categories

Code	Category	Comments
N	New feature	A separate feature added to the relay. Changes to existing features even if they significantly expand the functionality are not in this category.
G	Change	A neutral change that does not bring any new value and is not correcting any known problem
E	Enhancement	Modification of an existing feature bringing extra value to the application
D	Changed, incomplete or false faceplate indications	Changes to, or problems with text messages, LEDs and programmable buttons.
R	Changed, incomplete or false relay records	Changes to, or problems with relay records (oscillography, demand, fault reports, etc.)
C	Protocols and communications	Changes to, or problems with protocols or communication features
M	Metering	Metering out of specifications or other metering problems
P	Protection out of specifications	Protection operates correctly but does not meet published specifications (example: delayed trip)
U	Unavailability of protection	Protection not available in a self-demonstrating way so that corrective actions could be taken immediately
H	Hidden failure to trip	Protection may not operate when it should
F	False Trip	Protection may operate when it should not
B	Unexpected restart	Relay restarts unexpectedly

The revision category letter is placed to the left of the change description.

GE Multilin technical support

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