

# MIVII Voltage/Frequency Relay

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## Overview

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### Summary

GE Multilin releases the MIV-II special mod 15. Highlights of this release include:

- Two undervoltage protection elements with inverse time characteristics.
- Two under/over voltage protection elements with definite time characteristics.

This document contains the release notes for the special mod 15 for MIVII Voltage and Frequency Relay

- Date of release: Jan 10, 2007
- Firmware revision: 4.02

### Description

The version 4.02 release is compatible with the Enervista MII Setup software version 2.11 and higher.

## Release Details

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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

#### **E Inverse time characteristics included in undervoltage protection elements**

The special model 15 will have two undervoltage elements using an inverse time characteristic. In addition, there are two more undervoltage elements exist in MIV II.

The inverse time characteristic is defined by the following equation:

$$t = \frac{K}{1 - \left(\frac{V}{V_{pkp}}\right)}$$

where: t = operating time in seconds.  
K = time dial setting.  
V = applied input voltage.  
V<sub>pkp</sub> = Pickup voltage setting.

Neutral overvoltage and voltage unbalance protection elements does not exist in the MIV II special mod 15.

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## E Three independent auxiliary output contacts.

The MIV II standard model has four auxiliary output contacts with the same common. Special mod 15, allows having three independent auxiliary outputs.

## Appendix

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### 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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