



## 469 Motor Management Relay Release notes

**GE Publication Number: GER-4015**

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### Overview

#### Summary

- Affected products: 469 Motor Management Relay
- Date of release: February 24, 2004
- Firmware revision: 4.00
- Hardware revision: H
- Boot code revision: 3.00

#### Release summary

GE Multilin releases a new generation of enhanced 469 Motor Management Relays featuring a large, easy to read backlit display, an improved menu navigation structure, and enhanced set-up software via enerVista. The new Quick Start Guide and updated Instruction Manual complete the package offered to our customers. The enhanced relay has the same footprint as earlier versions and maintains the unique feature set that elevated the 469 relays to a leadership position in the industry. The new firmware revision is V4.00.

#### GE Multilin technical support

GE Multilin contact information and call center for product support is shown below:

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## Release details

### New models

#### Enhanced 469 relay has been introduced.

The order code has changed to introduce the new LCD by indicating “-B” for the existing relay and “-E” for the new relay. The new order code is shown below:

**Table 1: 469 Order Codes**

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<b>Base Unit</b>	469				469 Firmware 4.00 Release
<b>Phase Current Inputs</b>	P1				1 A phase CT secondaries
	P5				5 A phase CT secondaries
<b>Control Power</b>	LO				25 to 60 V DC; 20 to 48 V AC at 48 to 62 Hz
	HI				88 to 300 V DC; 70 to 265 V AC at 48 to 62 Hz
<b>Analog Outputs</b>	A1				Eight (8) 0 to 1 mA analog outputs
	A20				Eight (8) 4 to 20 mA analog outputs
<b>Display</b>	E				Enhanced display, larger LCD
	B				Basic Display

For example:

- 469-P5-LO-A1-E indicates the enhanced 469 Motor Management Relay
- 469-P5-HI-A20-B indicates the basic 469 Motor Management Relay

## New features

### Software: the 469 includes new enerVista 469 Setup software

The enerVista 469 Setup software for firmware version 4.00 is designed to allow customers to setup and monitor their relays in a faster and more reliable fashion. The software includes the following features:

- Enhanced Oscillography with: movable cursors, selectable zoom, ability to display cursor 1, cursor 2 and delta for all the displayed channels in same window, and a playback feature with selectable sample rate that allows viewing a waveform exactly as it occurred.
- Full backward-compatibility with setting files created in previous versions of 469PC.
- A menu option to turn "ON" and "OFF" the front panel display.
- A Quick Connect feature to simplify serial connection to a 469 relay.
- The ability to setup multiple 469 relays from one view.
- Support for firmware versions from 2.4x, 2.5x, 2.6x, 2.8x, and 4.0x.
- Multiple information windows can now be opened in a single window.

### Undervoltage: undervoltage element enhancement

The Undervoltage element has been enhanced to increase security and avoid tripping for VT Fuse Failure. An additional setpoint named **UNDERTHRESHOLD TRIP MODE** has been implemented. It has two options: 1-Phase and 3-Phase trips. The factory default setting will be "1-Phase".

## Modified features

### Firmware: new firmware version

New firmware version 4.00 has been released.

### Front Panel: the enhanced 469 contains a larger LCD and improved menu navigation

The enhanced relay contains an improved larger LCD with 40 readily visible characters. As well, a new menu structure and keypad functionality has been implemented to improve message navigation.

The keypad was redesigned for the improved navigation structure. A new MENU key scrolls through setpoints, actual values and target messages, replacing the SETPOINTS, ACTUAL, and NEXT keys on earlier versions. The MESSAGE LEFT/RIGHT keys have been introduced to navigate between sub-menus, while the MESSAGE UP/DOWN remain to allow navigation within sub-menus. The VALUE UP/DOWN, ENTER, ESCAPE, HELP and numerical keys remain and maintain their functionality.

The LED test feature is initiated by holding down the HELP key. The overall dimensions and mounting details for the "-E" option are identical to the "-B" option of the 469 relays.

### Product corrections: contact information updated

The technical support e-mail address and company web site was updated to reflect the new GE Multilin website address and e-mail.

### Setpoints: the default message intensity setpoint has been removed

The **DEFAULT MSG INTENSITY** setpoint has been removed. This feature is no longer required with the new hardware.

## Instruction manual changes

### New instruction manual publication number

The enhanced 469 relay manual has been assigned publication number GEK-106474.

### Updates to the instruction manual

The majority of the modifications to the instruction manual are related to the new navigation sequence and front panel keys for browsing through setpoints, actual values, and target messages. The content of the manual was also improved to enhance the understanding of the product.

Chapter 1 was added to the manual. This chapter describes the new navigation process with the additional MESSAGE keys and the new MENU key. Examples were introduced to illustrate the navigation process and how to access setpoints, actual values, and target messages. An application example was added, providing additional background and adding wiring diagrams, connection diagrams, and control schematics.

The order code, as well as the examples, was modified in chapter 2 (formerly chapter 1).

Chapter 3 was updated with illustrations of the new product (formerly chapter 2).

In chapter 4 (formerly chapter 3), the sections that covered the older PC software (469PC) were replaced with a new section corresponding to the enerVista 469 setup software.

Chapter 5 (formerly chapter 4) was modified to reflect the new navigation process. All navigation instructions for setpoints were reviewed and changed accordingly. Additional information was added to the Undervoltage element description to include the new **UNDervoltage TRIP MODE** setpoint.

Chapter 6 (formerly chapter 5) was also modified to reflect the new navigation process.

The communications chapter (Chapter 6 in the previous manual) has been removed. This information is now available as GE Publication number GEK-106491: 469 Communications Guide.