

SR 469 Motor Management Relay

Firmware Version 5.10

Software Version 5.10

Release Notes

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Overview

Summary

GE Multilin issues the SR 469 Motor Management Relay Firmware 5.10 release. Highlights of this release include:

- Faster Operation of Phase Short Circuit and Ground IOC
- Improved Power Factor Metering for reciprocating load applications
- Default User Map for Modbus Addresses
- Enhanced Alarm Settings
- Reliable Analog Output Values
- Diagnostic event added to Event Recorder
- Enhanced waveform captures.
- Release Date: May 6, 2010.

GE Multilin issues the EnerVista SR 469 Motor Management Relay Setup software 5.10 release. Highlights of this release include:

- Support for Firmware version 5.10
- Implementation of LaunchPad 5.0
- Implementation of Quick Action Bar
- Improved Analog Output Value Upload
- Release Date: May 6, 2010

Upgrading from a previous version of the 469 Setup software to the new 5.10 can be done via EnerVista Launchpad or downloaded directly at:

<http://www.gedigitalenergy.com/app/ViewFiles.aspx?prod=469&type=7>

Please contact your local GE Multilin sales representative or GE Multilin Customer Service Department (CST) for any questions regarding this upgrade.

Release details

In the following enhancement descriptions, a revision category letter is placed to the left of the description. Refer to the Appendix at the end of this document for a description of the categories displayed.

Firmware Version 5.10

E Faster Operation of Phase Short Circuit and Ground IOC

The phase Short Circuit and ground IOC algorithms have been enhanced to provide faster instantaneous operation. The IOC protection elements can detect and produce stable operation with a faster operate time even under extreme fault currents, which can be heavily distorted by the saturation of Current Transformers.

For operate times, refer to the specifications for Ground Instantaneous Overcurrent and Phase Short Circuit under section 2.2.3 in 469 instruction manual.

M Improved Power Factor Metering for reciprocating load applications

Prior to firmware version 5.10, the 469 would measure incorrect power factor when metering a reciprocating load.

Firmware version 5.10 corrects this issue and the 469 will accurately meter the power factor when used on reciprocating load applications.

E Default User Map for Modbus Addresses

The 469 Modbus memory map has been enhanced to include a default user memory map. This default user memory map includes the most commonly used Modbus addresses in one table. By including the default memory map in one easy to poll user map the user is able to poll the most commonly used data in one pole scan thereby increasing system efficiency.

Please refer to the 469 communication guide, GEK-106491 for the list of default Modbus addresses used in User Map.

E Enhanced Alarm Settings

Firmware version 5.10 adds a selection of 'NONE' to the Assign Alarm Relays settings. When set to 'NONE', the alarm will record an event without operating one of the alarm or auxiliary relays. This allows for more flexibility in allocating alarm and auxiliary relays to various purposes.

M Reliable Analog Output Values

Prior to firmware version 5.10, the analog outputs could fail when the set time and set date are continuously updated to the relay by an external device such as PLC. During an analog output failure the analog outputs will drop to zero and the power to the relay will need to be cycled in order to correct this issue.

This issue has been corrected in firmware version 5.10.

R,U Diagnostic Event added to Event Recorder

Prior to firmware version 5.10 in the event of an external abnormality, which could cause the relay to conduct an unexpected restart the 469 would register a 'Control Power Lost' in the event recorder and would also register an incorrect time stamp on the event.

Version 5.10 corrects this issue. In version 5.10, an unexpected relay restart caused by an external abnormality will appear as 'Self-Test Warning 9' and the time stamp of the event is within 1 second after reset.

E Enhanced Waveform Capture

Prior to firmware version 5.10, relay output status was not one of the waveforms captured. Firmware version 5.10 captures relay output status, in addition to the waveforms previously available for capture.

Modbus register 'Trace memory trigger index' was added at address 30FA. Modbus register 'Trace memory sampling frequency' has been corrected. Prior to firmware version 5.10, this register showed the frequency of measured input voltage. In version 5.10 this register provides the sampling frequency.

Please refer to the 469 communication guide for additional information.

Energvista Set up Software Version 5.10

E Implementation of LaunchPad 5.0

LaunchPad 5.0 has been implemented to support the SR469 Motor Management Relay.

The EnerVista™ Launchpad software is a powerful toolset used for the complete support and management of Multilin products. Support applications including product software, manuals, and setting files management used to ensure your important files are kept up-to-date and easily accessible. Site Management allows you to properly maintain your asset and devices by providing real-time diagnostic data and reports.

LaunchPad 5.0 provides the following key benefits:

- Provides a simple and intuitive method of configuring all Multilin devices
- Ensures setup software, manuals and other support documentation is available and is always up to date
- Supplies all the tools necessary for analyzing faults to get your equipment back up and running
- Provides Asset and Device management capabilities at the click of a button



E Implementation of Quick Action Bar

The SR469 set-up software version 5.10 has been enhanced to include the Quick Action Bar. The Quick Action Bar provides users with ease-of-use functionality when accessing diagnostic data from the SR469 Motor Management Relays.

The Quick Action Bar provides users the ability to quickly access diagnostic data such as: the Event Recorder, Waveforms, Metering data, View Input/Output Screen and the Service Report with the click of a button.



E Improved Analog Output Value Upload

Prior to firmware release 5.10, while writing a settings file to the 469 where the reorganization of the analog outputs is done an error could occur that would cause the analog output values not to be written to the relay.

With release 5.10, a preliminary check has been added to ensure that any reorganization of the channel selection settings will be accepted by the firmware.

Upgrade paths

This upgrade can be done either via EnerVista Launchpad or by direct download from the following site:

<http://www.gedigitalenergy.com/app/ViewFiles.aspx?prod=469&type=7>

If using EnerVista Launchpad, follow these steps:

1. Open EnerVista Launchpad
2. Click "IED Setup"
3. Click "Check Updates". Note: this will check for updates to all of the IED setup software shown.
4. Select the 469 version 5.10 upgrade for download.

Please contact your local GE Multilin sales representative or GE Multilin Customer Service Department (CST) for any questions regarding this upgrade.

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 user pushbuttons
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 specification or other metering problems
P	Protection out of specification	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

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

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