

750/760 Release

Version 7.20 Release Notes

GE Publication Number: GER-4152

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[Overview](#)

Release Summary

GE Multilin releases a new version of the 750 hardware, firmware and software. Highlights of this release include:

- Hardware was updated to support production and address obsolescence of certain relay components.
- New hardware will handle all functionality currently performed in previous versions of the 750/760 relay.

Summary

- Affected products: None
- Date of release: March 25th, 2008
- Hardware revision: L
- Firmware revision: 7.20
- Enervista Setup Software revision: 7.20
- Manual revision: GER-4152

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

Enhancements

E New Hardware

Hardware was updated to support production and address obsolescence of certain relay components. A new firmware and software version is released to support the new hardware.

E IOC Element Enhancement

In the current firmware version 7.20, SR750 applies enhanced algorithm to allow IOC operations under distorted currents due to severe CT saturation. Severe CT saturation conditions are possible in Low voltage and Medium voltage switchgears where fault currents may be extremely high.

In previous firmware version 7.01 and earlier, the IOC protection element could operate correctly only if the RMS values of the fault current were greater than the pickup setting which may not occur if the waveform was severely saturated.

R Dropout Event Logging

In this release, the dropout event logging of all directional elements (Phase Directional, Ground Directional, Neutral directional, Negative Sequence Directional, Sensitive Ground Directional) and Breaker Failure element has been improved such that dropout events are not logged when event recording is disabled for alarm/control.

Prior to this release, the Event Recorder responded accurately by not logging events for alarm/control when event recording was disabled for alarm/control. However, Event Recorder would log dropout events for directional elements and Breaker failure when disabled.

E Improved support for settings file (existing and new relays)

In software release 7.20, the issues related to converting settings files in software version 5.01 of the 750 set up program were enhanced.

In the previous software version 5.01, there were issues related to converting settings file. For example, if the settings file contained a negative value for the minimum level for any of the analog output settings, the negative value would not get converted.

E Improved installation support

In the previous software version 7.03, when 750 Setup was uninstalled and reinstalled into a different path location, the setup was attempting to read application data files from the original location. Since the files were no longer in the original location, the program could not recognize devices, settings files, or allow the user to create new setting files.

The current version of the software 7.20 reads the installation path automatically instead of trying to read the path stored in the configuration file (INI file).

E Restore size and position of setup after restart

Most applications allow Users to set the size and position of the application such that when the

application is closed and restarted, the application recalls where the user last positioned the application. The previous version of the 750 software was saving size and position information, but was not restoring the information when the PC was restarted.

The current version of the software saves size and position of setup when exiting and restores size and position when setup is restarted.

E Enhanced Customer Feedback

When submitting customer feedback information the EnerVista Software program has been enhanced to capture some relevant data from the PC program and the connected computer. This enhanced feature can be found in the main menu under the Help header.

By including this additional functionality to the 750 set up software this allows GE Multilin's technical support staff to efficiently assist with customer requirements.

E Improved access to Modbus Analyzer Registers

The Modbus Analyzer feature is available for trouble-shooting. The user can enter register addresses and see the values that the registers hold or modify the values of a particular settings register directly.

However, in the old version, when the user closed the application and re-opened he/she had to specify each register number again.

In the current version of the Modbus Analyzer, once the user enters a set of registers for writing or monitoring, this set of registers can be saved to a file for later use by going to Communications-> Save Analyzer Data. The file is saved to the selected path with the given name and .anl extension. This same set of registers that are saved to the file can be reloaded back by going to Communications -> Load Analyzer data and the file opens in Modbus Analyzer view.

E Improved time stamping resolution

The current version of the software has been improved to calculate trigger date and time of data logger in continuous mode at sample rates of 1 minute or higher.

Compatibility:

- New Firmware Revision 7.20 and new Hardware Revision 'L' are not backward compatible with previous Firmware version 7.01 and Hardware version 'K'.
- Existing relays with version 'K' Hardware or lower cannot be upgraded to Firmware 7.20.
- Only relays produced with Revision 'L' Hardware can support Firmware revision 7.20
- Enervista 750/760 Setup prevents new firmware from being uploaded to an incompatible relay.

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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