

750/760 Feeder Management Relay
Firmware release notes

GE Publication Number: GER-4012

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Overview

Summary

- Affected products: 750/760 Feeder Management Relay
- Date of release: January 05. 2004
- Firmware revision: 6.00
- Hardware revision: J
- Boot code revision: 4.00

Release summary

GE Multilin has released a new generation of enhanced 750/760 Feeder 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 750/760 relays to a leadership position in the industry. The new firmware revision is V6.00.

GE Multilin technical support

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

GE Multilin
215 Anderson Avenue
Markham, Ontario
Canada L6E 1B3

Telephone: 905-294-6222 or 1-800-547-8629 (North America), +34 94 485 88 00 (Europe)
Fax: 905-201-2098 (North America), +34 94 485 88 45 (Europe)

E-mail: multilin.tech@indsys.ge.com
Home Page: http://www.GEindustrial.com/multilin

Release details

New models

Enhanced 750/760 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: 750/760 Order Codes

	750	**–**	*	**–**	*	**–**	*	**–**	*	**–**	*	**–**	*	**–**	*	750 Feeder Management Relay
	760	**–**	*	**–**	*	**–**	*	**–**	*	**–**	*	**–**	*	**–**	*	760 Feeder Management Relay
Base Unit	750		|		|		|		|		|		|		|	750 relay
	760		|		|		|		|		|		|		|	760 relay with autoreclose
Phase Current Inputs	P1		|		|		|		|		|		|		|	1 A phase current inputs
	P5		|		|		|		|		|		|		|	5 A phase current inputs
Zero-Sequence Current Inputs		G1			|		|		|		|		|		|	1 A zero-sequence current inputs
		G5			|		|		|		|		|		|	5 A zero-sequence current inputs
Sensitive Ground Current Input				S1			|		|		|		|		|	1 A sensitive ground current input
				S5			|		|		|		|		|	5 A sensitive ground current input
Control Power						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
Analog Outputs							A1		|		|		|		|		|	Eight (8) 0 to 1 mA analog outputs
							A5		|		|		|		|		|	Eight (8) 0 to 5 mA analog outputs
							A10		|		|		|		|		|	Eight (8) 0 to 10 mA analog outputs
							A20		|		|		|		|		|	Eight (8) 4 to 20 mA analog outputs
Breaker Closed LED										R	| |		|		|		|	Red LED for Breaker Closed indicator
										G	| |		|		|		|	Green LED for Breaker Closed indicator
Display																E	Enhanced display, larger LCD
																B	Basic Display

For example:

- 750–P5–G5–S5–HI–A20–R–E indicates the enhanced 750 Feeder Management Relay
- 760–P5–G5–S5–HI–A20–R–B indicates the basic 760 Feeder Management Relay

New features

Software: the 750/760 includes new enerVista 750/760 Setup software

The enerVista 750/760 Setup software for firmware version 6.00 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 750PC.
- A Menu option to turn "ON" and "OFF" the front panel display.
- A Quick Connect feature to simplify serial connection to a 750/760 relay.
- The ability to setup multiple 750/760 relays from one view.
- Support for firmware versions from 3.0x to 6.0x.
- Multiple information windows can now be opened in a single view.

Modified features

Firmware: new firmware version

New firmware version 6.00 has been released.

Front Panel: the enhanced 750/760 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 750/760 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 750/760 relay has been assigned publication number GEK-106471.

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 modified for the new navigation process reflecting the additional MESSAGE keys, the introduction of the MENU key, and the elimination of the NEXT, SETPOINT and ACTUAL keys. Additional examples were introduced to illustrate the navigation process and how to access setpoints, actual values, and target messages. The application example was enhanced, 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.

Chapter 3 was updated with illustrations of the new product.

In chapter 4, the drawing showing the relay faceplate was updated to reflect the new faceplate design. The format of the diagnostic messages was changed to reflect the new presentation. The sections that covered the PC software was replaced with a new section corresponding to the enerVista 750/760 setup software.

Chapter 5 was modified to reflect the new navigation process. All navigation instructions for setpoints were reviewed and changed accordingly. The section corresponding to the Automatic Transfer Scheme was enhanced. Due to the keypad changes, the key sequence for clearing maximum and last demand values was changed from “Setpoint, Decimal, Message Up” to “Menu, Decimal, Message Left”.

Chapter 6 was also modified to reflect the new navigation process.

The communications chapter (Chapter 7 in the previous manual) has been removed. This information is now available as GE Publication number GEK-106473: 750/760 Communications Guide.