Firmware Release Note

Date: **Oct 15, 2024**   Distribution: **Public**   Reference: **GER-4979**

Multilin 859 Protection and Control Relay Platform

Firmware Release v4.04

Release Notes

Summary

GE Grid Automation releases Firmware Version 4.04 for the Multilin 859 Protection & Control Relays. Highlights of this release include the following:

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- Unexpected Reboot on products with Electrical Signature Analysis (ESA) option
- RRTD Trip and Alarm OP
- Thermal Model to use Stator Remote RTD
- Start Inhibit Timers

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- Upgrade the firmware to version 4.04 by downloading the file directly from GE Vernova Grid Automation website:

  859 Motor Protection System

- The latest EnerVista 8 Series Setup software is available at the same location. The software supports Windows 7, 8.1, 10 and 11.

- Please contact your local Multilin sales representative or Multilin Customer Service Department for any questions regarding this upgrade.

Release details

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

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B   **Unexpected Reboot on products with Electrical Signature Analysis (ESA) option**

Record ID index register size was increased to 32 bits to remove the risk of unexpected reboot that may occur during a motor start.

C   **RRTD Trip and Alarm OP in 859**

Enabled status of all Trip and Alarm OP operands from RRTD to be usable on 859 Display or through 859 communication channels.

G   **859 Thermal Model Stator using Remote RTD**

Support added to use Remote RTD (RRTD) as input into the Thermal Model when Remote RTD is configured as stator.

H   **859 Start Inhibit Timer**

Start Inhibit Timers were reset upon power down of 859 Relay in prior versions. In version 4.04 the Start Inhibit timers' data are retained on power cycle.

Appendix

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

For Further Assistance

For questions or further product support, please contact the GE Grid Automation support team using:

Region	E-mail	Telephone
Global Contact Centre	GA.support@GE.com	+44 1785 250070
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