GE Digital Energy

MM300 Motor Management System

Revision 1.20 Release Notes

GE Publication Number: GER-4147

Overview

Summary

GE Multilin releases firmware version 1.20 for the MM300 Motor Management System that introduces enhancements to the MM300. Highlights of this release include:

- Waveform Capture
- Data Logger
- CT Primary Turns
- Screen Saver for Graphic Display Panel (GCP)
- Phasor Display

This document contains the release notes for the 1.20 release of the MM300 Motor Management System.

- Affected product: MM300 Motor Management System
- Date of release: February 15, 2008
- Firmware revision: 1.20

The version 1.20 release is compatible with the EnerVista MM300 Setup software versions 1.00 and higher.

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.

Enhancements

N

Waveform Capture

The MM300 has been enhanced to include waveform capture. The MM300 can be used to capture waveform (or view trace memory) at the instance of a trip, activation of a virtual output, or other conditions. A maximum of 64 cycles (32 samples per cycle) can be captured and the trigger point can be adjusted to anywhere within the set of cycles.

The following waveforms can be captured:

- Phase A, B and C currents (Ia, Ib and Ic)
- Ground Current (Ig)
- Phase A-N, B-N and C-N voltages (Van, Vbn and Vcn) is Wye connected
- Phase A-B, B-C and C-A (Vab, Vbc and Vca) if Delta connected

N

Data Logger

The MM300 functionality has been improved to include a data logger feature which is used to sample and record up to ten (10) actual values at a selectable interval. The Data Logger can be enable to operate in Continuous mode which will continuously record samples until stopped by the user; or with Continuous mode disabled, which will trigger the datalog once without overwriting previous data.

E

C.T. Primary Turns

The MM300 has been enhanced to allow a higher degree of accuracy in applications where the current draw is very low (small motors). In these types of application the motor leads may be wrapped through the C.T. primary with several turns thereby increasing the current seen by the MM300 and thus increasing the accuracy of the measurement.

N

Screen Saver for Graphic Display Panel (GCP)

Enhancements have been made for MM300's equipped with a Graphic Display Panel (GCP). The GCP is now equipped with a screen saver that will enable the user to enable or disable the functionality. In conditions where the GCP is inactive for over a predefined time the GCP screen saver will enable. The GCP can then return to normal operation when any of the keys are pressed on the GCP.

E

Phasor Diagram Display

Enhancements have been made to the MM300 to allow for additional flexibility when displaying Phasor Diagrams in the MM300. With the enhancement to the Phasor Diagrams the user can define whether to display the quantities in either a leading or lagging formats.

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

The revision category letter is placed to the left of the change description.

GE Multilin technical support

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