

PQMII Power Quality Meter

Firmware Revision 2.23 Release Notes

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Overview

Summary

GE Multilin releases PQM II firmware version 2.23 that introduces enhancements to the PQMII Power Quality Meter. Highlights of this release include:

Event Recorder

- Enhancements to the event recorder for output relay status and phase current values.

Data logger

- Enhancements to the data logger stop function from the front panel.

Metering

- Modifications to voltage Vca phase angle calculations for open delta connections.

This document contains the release notes for the Firmware Revision 2.23 for the PQMII Power Quality Meter.

- Affected product: PQMII Power Quality Meter
- Date of release: December 21, 2007
- Firmware revision: 2.23

Hardware / Software Compatibility

New 2.23 firmware is compatible with all previous firmware and hardware revisions of PQMII Power Quality Meter.

The use of the new 2.23 firmware requires version 2.3x or higher of the EnerVista PQMII Setup software.

If users have existing PQMII Power Quality Meters installed with older versions of firmware, they can download and install this new firmware to benefit from the enhancements described in this release note. If the user does not require these enhancements, upgrading to this latest firmware version is not required.

Release details

In the following change descriptions, a revision category letter is placed to the left of the description. Refer to the Appendix at the end of this document for additional details.

PQMII Power Quality Meter Enhancements

R

Event recorder

Enhancements have been made to the event recorder to accurately record the status of the output relay when a drop out condition occurs. Previous to this release, when the PQMII detected a dropout condition and the relay assigned to that element de-energized, the event recorder would fail to log the correct state of the output relay assigned to that element. With the release of firmware v2.23, the event recorder will now record the correct status of the output relays assigned to any element, at drop out conditions.

The event recorder has also been enhanced to accurately record the current values for a phase overcurrent event. Previous to this release, current values recorded in the event recorder would be incorrect for a phase overcurrent event.

E

Data logger

The PQMII has been enhanced to ensure that meter settings will not be affected by manual operation of the data logger from the front panel. Previous to this release, the combination of multiple manual stops of the data logger from the front panel, followed by recycling of the meter power supply, would result in settings defaulting to the factory settings. The issue has been corrected in firmware revision 2.23.

R

Metering

The PQMII has been enhanced to ensure the correct voltage phase angle is displayed for voltage phasor Vca for open delta connections. Previous to this release, if the VT connections were set to open delta the voltage, the Vca phase angle displayed by PQMII was incorrect.

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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