

Eaton® PDI WaveStar Color M4G Data Acquisition Board

Production Firmware History



p/n: P-164001175
Revision 01

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Description

This document is intended for end-user informational purposes. It describes the changes between revision levels of the Eaton PDI WaveStar Color M4G Data Acquisition Board firmware used in the Eaton PDI WaveStar Color Monitoring System product line. This document will be changing periodically and reposted on www.Eaton.com to reflect new production level firmware changes. In all cases, the changes, enhancements, fixes, and new features listed under a given production release are automatically transferred into the next production release.

Revision 3.027 (Released March 2023)

Changes and Enhancements

- Converted code to new processor (PIC30F6014 to PIC30F6014A).
- Adjusted code to support multiple manufacturers of RTC chip.

Revision 2.027 (Released January 2023)

Changes and Enhancements

- Clear frequency and phase angle values for no voltage condition.

Revision 2.026 (Released October 2019)

Changes and Enhancements

- Phase angle limit 0-180 degrees.
- Check latched phase angle alarm for key release.
- Check latched phase rotation alarm for key release.

Revision 2.025 (Released September 2019)

Changes and Enhancements

- Add %THD to output for voltage and current.

Revision 2.024 (Released February 2014)

Fixes

- Output1 low current alarm for phase B.
- Input current limits save.
- Phase angle at 50hz.

Revision 2.023 (Released September 2012)

Changes and Enhancements

- Added trip debounce (hi, low, ground, phase rot).

Revision 2.022 (Released April 2012)

Changes and Enhancements

- Writes to alarms cannot set alarms.

Revision 2.021 (Released March 2012)

Changes and Enhancements

- Auto clear summary alarm when associated latched alarm is cleared.

Revision 2.020 (Released February 2012)

Changes and Enhancements

- Frequency changes timing for sampling

Revision 2.019 (Released January 2012)

Changes and Enhancements

- Changed to simultaneous sampling.
- Debounce/enable for alarms.
- CT reverse orientation option.
- Set scale factors capability.

Revision 2.018 (Released December 2011)

Changes and Enhancements

- Added input current/THD.
- Changed modbus server id to #5421 due to more registers.

Fixes

- Optimized save on modbus write.

Revision 2.017 (Released September 2011)

Fixes

- KW values for KVA greater than 500.

Revision 2.016 (Released August 2011)

Changes and Enhancements

- Phase rotation delay.

Revision 2.015 (Released December 2009)

Changes and Enhancements

- Converted code for new RTC chip.
- Moved nonvolatile memory from RTC to EEPROM.

Fixes

- Output 2 current limit setup.

Revision 1.014 (Released October 2009)

Changes and Enhancements

- Frequency and phase angle optimization.

Revision 1.013 (Released August 2009)

Changes and Enhancements

- Remove phase rotation alarm when no voltage.

Fixes

- Phase rotation for dual input setup.
- Load setup before KWH.

Revision 1.012 (Released September 2009)

Changes and Enhancements

- Added 50hz option

Fixes

- Frequency timeout for no voltage

Revision 1.011 (Released September 2009)

Fixes

- Source 2 Frequency

Revision 1.010 (Released September 2009)

Fixes

- Percent load above 655A.

Revision 1.009 (Released August 2009)

Changes and Enhancements

- Added limits and alarms for frequency

Revision 1.008 (Released August 2009)

Changes and Enhancements

- Added percent load.

Revision 1.007 (Released April 2009)

Fixes

- Summary alarm for building alarms

Revision 1.006 (Released March 2009)

Fixes

- USB setup for output two KW and KVA limits.

Revision 1.005 (Released February 2009)

Changes and Enhancements

- Check for digital alarms in Dual input mode to exclude the CB aux inputs.

Revision 1.004 (Released December 2008)

Changes and Enhancements

- Added external sync option

Fixes

- Dual input alarms for CBs
- Source 2 phase rotation

Revision 1.003 (Released September 2008)

Fixes

- Output 2 voltage limits

Revision 1.002 (Released August 2008)

Fixes

- USB command for capital 'N' and 'G' on calibrate
- Disable output current 2 calibrate in Dual input mode

Revision 1.001 (Released July 2008)

Changes and Enhancements

- Added KW and KVA alarms and limits

Revision 1.000 (Released May 2008)

- Initial Release version



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