Continental Control Systems LLC

WattNode BACnet - Firmware Version 1.10

Overview

- Release Date: 2013-01-25

The WattNode® BACnet® firmware release 1.10 is a major update with improvements to prepare for BTL testing, improved non-volatile memory redundancy, improved performance, and bug fixes.

This release should be largely compatible with the previous 1.04 firmware, but we advise performing a self-discovery operation to get the latest object list.

The older 1.04 firmware may be ordered by adding "Opt V104" to the model number.

Updates

For a full list of updates, see the web article WattNode BACnet - Firmware Version 1.10. For the new list of objects in Excel format, see the article WattNode BACnet Object List.

- Improved the BACnet MS/TP implementation for BTL compliance and improved handling of faults and unusual conditions on the bus, such as hot-plugging devices.
- Restructured the non-volatile flash memory (used for calibration, configuration, energies, and peak demand) for improved reliability, redundancy, and start-up speed.
- Improved the diagnostic communication LED display.
- Several bug fixes.

Object and Property Changes

- Added optional ***Device:Last_Restart_Reason*** property.
- Added optional ***Update_Interval*** property to all the analog input objects.
- Added optional ***Reliability*** property to all the analog input objects.
- Added the following RS-485 error count objects in the analog value group. These provide useful diagnostics for communication problems. See the manual for more details.

  - ***Rs485CollisionCount***
  - ***Rs485FramingErrorCount***
  - ***FrameSizeErrorCount***
  - ***HeaderCRCErrorCount***
  - ***DataCRCErrorCount***

  - ***IncompleteFrameCount***
  - ***Rs485BreakCount***
  - ***BadByteCount***
  - ***LostToken***

- Eliminated the binary value object ***RecallDefaults***.
- Eliminated the multi-state value objects ***BaudRate*** and ***PasscodeEnabled***.

Additional Information

See http://www.ccontrolsys.com, the full manual, or contact support for more information.