May 2009 A89DC-08 Firmware changes.

There have been a number of changes included in the latest firmware update for the A89DC-08. Users should be aware of the firmware update and how these changes may impact custom applications that have been developed using previous versions of firmware. Although great care has been taken to maintain the previous feature set, users should test the firmware update prior to deploying this firmware on production equipment.

This firmware update will be provided at no cost.

Firmware release for A89DC-08: v1.04

Overview of changes:
This firmware update includes some minor fixes for Modbus register range checking and a new feature to allow the Obvius Configuration Console (OCC) tool to be used on the RS232 port for setup/config purposes.

Firmware Changes:

- Added range checking on all non-volatile parameters on startup. Parameters in eeprom that are out of range will be adjusted on startup.
- Updated range checking on Modbus writable registers for alarm levels to match documentation.
- Updated range checking on Modbus Address register to enforce 1-247.
  Note, any A89DC-09 that was configured for a Modbus address 248-255 will be reset to Modbus address 1-247 after installing this firmware update. The OCC tool should be used to confirm the Modbus address after installing this firmware update.
- Updated compiler, linker, and library code to newlib-1.16, enabled code fix for P1.31, and disabled debug code. This should allow the A89DC-08 to run faster and use a little less power when idle.
- Added feature to allow Modbus packet handling on the RS232 port for 15 minutes after startup. This will enable the use of the OCC tool to make configuration changes on the RS232 port, without the use of an RS232/RS485 adapter for the computer. Note, this is intended for setup purposes only and the feature will turn itself off after 15 minutes.
- Added a sign-on message to print on the RS232 port at 9600 on startup. Feature prints the device id string and the Modbus address in hex on a new line. This feature is provided to support the OCC auto device detect feature.
- Updated alive LED driver to allow the control pin to float when the LED is on. This will provide a small amount of power savings.