PowerScout 3037 Firmware Changelog

Update: May 9, 2017

List of changes in 4.82:

1. This update resolved potential issues getting or renewing an Ethernet IP address when using DHCP when the DHCP server could not be reached under any of the following conditions: Due to the DHCP server being unavailable after loss of power or a broken connection. This could be caused by an inter-connecting device not being powered up, a disconnected cable, etc.
2. New feature - % THD register/objects added:
   - Modbus Registers:
     - THD SYSTEM =4157
     - THD L1 =4158
     - THD L2 =4159
     - THD L3 =4160
   - BACnet Objects:
     - THD SYSTEM =9300
     - THD L1 =9310
     - THD L2 =9320
     - THD L3 =9330
3. Prevent Resetting of User Settings Under Low Voltage Meter Operation (56 – 60 VAC), which could occur on systems with backup generators.

List of changes in 4.73:

1. Line to Line calculations improved for unbalanced delta systems.
2. Updated backlight display LED turns off after 15-minute timeout.
3. DHCP retry algorithm improvements.

List of changes in 4.54:

1. This update resolved potential BACnet MS/TP communication "lock-up" conditions observed under some of the following conditions:
   - Duplicate device addresses on the BACnet network.
   - Due to some conditions surrounding loss of power and restoration of power to the meter.
   - Removal of the RS-485 connector from the powered meter.
2. Updated default BACnet setting for hop count to match BTL requirement of 255 instead of the current 15.
3. On models with display, when the PF was negative the display would instead show a 0 PF, now negative PF is displayed correctly.
4. When changing rotary switches for RS-485 addressing and using the BACnet protocol an "I-Am" message will be sent to notify of the change in address.
5. On BACnet devices only, the following three properties are now editable using a 3rd party tool:
   - Name (limited to 32 characters).
   - Location (limited to 32 characters).
   - Description notes (limited to 32 characters).
6. When the display is in manual mode, on power up, the display will power up in the last screen before the power down occurred.

List of changes in 4.40:

1. Fix for demand registers/objects reporting ½ of correct value introduced in 4.39.

List of changes in 4.39:

1. Adding kWh and peak demand to the display. This is now the final screen before the Serial number/Firmware revision is displayed again.
2. Adding a LCD new mode "manual update." When the select switch is held down for 5 seconds the PS3037 will switch between AUTO CYCLE mode (switch screens every 2 seconds) or MANUAL CYCLE (the button must be pressed to switch screens). This change is saved to non-volatile memory. The AUTO CYCLE also behaves the same when the select button is pressed < 5 seconds (i.e. pauses on one screen for 20 seconds, pressing it again will manually go to the next screen).
3. The floating point divide by zero (causing accumulated values to be NAN).
4. Add multiple TCP connections for Modbus/TCP. The PS3037 will now support 4 TCP ports.
5. Add floating point voltage multiplier. Made the existing 44604 register the integer portion of the multiplier and 44616 the decimal portion:

- NV_VOLTS_MULTIPLIER_INT =4603, // 44604
- NV_VOLTS_MULTIPLIER_DEC =4615, // 44616

Initial stable release version 4.33