



SOFTWARE RELEASE NOTES

MCS-MAGNUM

Version 17.25D

03/03/2017

Updates from previous versions: 17.24B

New Features:

1. All Firmware - Add two new digital sensor input display types, "FlowOK", "NoFlow" and "Oil OK", "No Oil.
2. Add cond fan rotation logic to adaptive control. Setpoint #46 (45) must to a Time Type setpoint and time column has a value of ZERO. If Time type and vtime column value is > 0 and < max cond stages, then force the lead to the time value.

Bug Fixes:

1. CENTPTS: Revert change made by bww on 57649d434df1a68f0a600973bb0d715b852d6aa8 commit were he moved subcooler_exv. We need to match MCS-Connect's Circuit_ram definition. Also added comments /numbers to new bytes
2. MCS-Connect is keying on this sw version number to enable the Adaptive Condenser fields.
3. All Firmware - Add support for Shared Adaptive Condenser control - this option is coded but not test nor used at the moment. MCS-Config does not let you select adaptive shared at the moment - for future applications only.
4. CENTPTS: Revert change made by bww on 57649d434df1a68f0a600973bb0d715b852d6aa8 commit were he moved subcooler_exv. We need to match MCS-Connect's Circuit_ram definition. Also added comments /numbers to new bytes.

Any questions regarding this release, contact:
support@mcscontrols.com

Micro Control Systems, Inc. 5580 Enterprise Parkway Fort Myers, Florida 33905
(239)694-0089 FAX: (239)694-0031 www.mcscontrols.com

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5. All Firmware - Change the EXV Superheat/Evap Level/Cond Level control logic to only force the holding state for 5 second instead of 15 second. Was seeing the logic get stuck in the holding state when it should be controlling on the superheat. Superheat is above the zone, the valve is opened, then superheat starts to drop, roc forces the exv into holding and superheat continues to drop very fast and get below the zone below the 15 second hold time has elapsed and we needed to be closing the valve but we are stuck in the holding state for 15 seconds.
6. CPM Chillers/Modules are not being turned off properly this is also causing a problem with rotation . Corrected rotation and staggering to do first ON/first OFF. If a Chiller/Module is due to a safety it will not be considered in the rotation.
7. CPM 17.25-B for beta test. N+2 demo setup in Tech Support Lab
8. All firmware - Corrected display of "ROTATED LEAD" alarm message. It was being right justified. Made it match all the other alarms and left justified it.
9. REF & HCREP Firmware only - corrected two issue, screw comp logic was not reset the rotation allowed flag and voltage step algo was not check if rotation need to be done. Corrected both issues.
10. All firmware - User Define Sensor inputs could overflow depending on the mult/div/offset values. Correct the calculation to cast the variable to larger types to hold the numbers. Then only at the end cast the result back to 16 bits.
11. CPM: Reported by Brian Reed:" I've been connected and the rotation logic will not allow an idle chiller to come on line evidently due to the no flow condition of the modules with their CW valves closed. The valve starts to open then closes again. "
12. CENT: Corrected problem reported by John B where we don't display OIL DIFF nor FLA% on the LCD/Keypad display. Solution: Reworked conditional compilers.
13. RTU. Reported by JGW AAON: cooling wanted/actual 0/-1. Added multiple checks to prevent steps_turned_on from decrementing below 0. If this happens the value wraps around setting the field equal to 256 and MCS-Connects will display a -1.

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