



SOFTWARE RELEASE NOTES

MCS-MAGNUM Version 17.23X 01/03/2017

Updates from previous versions: 17.23U2

New Features:

1. HVAC Firmware - Add the logic for Unloaded ON - uses setpoint #151 Unload off night setback field as an offset to the target to calculate a on point to when all comp are off before allow a comp back on. This logic was put into the CENT by was not add to the HVAC firmware.
2. RTU Firmware only - Add logic for Unloaded OFF and Unload ON - Setpoint #151 - Same logic as in CENT and HVAC. Keep Last comp run until ctrl temp below unloaded off value and do not all comp on until ctrl temp goes above unload on value.
3. Copied changes Made by JGW to Fast EXV SSH control. Compiled all all sw except MagRef. Need to to correct the following error "(1689,47) : ERROR (128) Identifier "b_circuit_ram" not defined within current scope" .

Bug Fixes:

1. REFR firmware only - Corrected issue with condenser target not been adjusted by defrost offset when comp state in Defrost Pumpdown or Defrost Starting Comp.
2. REF firmware only - Correct issue with LLS (&EXV) not starting/turning on CFG with recip comp with unloaders.
3. REFR Firmware Only - Correct issue with defrost approach timer not be reset in cfg with rotating coils once the timer has expired.
4. CPM: After loading and testing SW at SOHO DB job site we found that pumps were stock in anti cycle for more that the time specify in STPT_PUMP_ANTI_CYCLE_OFF (SP27).
5. Pumps were not being disable on a safety when they were OFF or Anticycle
6. CENT Firmware Only - Corrected test when in Heating mode and above the control zone to stop unloading and go to holding when ROC is drop quick enough. Test was wrong - it was testing for ROC to be greater than max pos ROC setpoint.

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

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7. All Firmwares - Correct Modulating Condenser logic for when heatpump unit is in heating mode or refr unit is in defrost to control the condenser fans correctly.
8. All Firmware versions - Correct issue with User Defined sensor inputs - depending on the multiplier used the math could overflow the 16 bit integer field. Casted to long field to do the math and then cast result back to 16 bit signed integer.
9. CENT & stpSCREW: Compiler Warning Fix - Added SCOPE void screw_oil_pump_control(); to clear up compiler warning "no function prototype"
10. CENT.c: Problem with OIL PUMP not cycling OFF even through it is setup for "Cycle/Needed". Reported by John B "Hamilton Partners 1101 Perimeter Drive-York HT D1 C1 BBC_Rev_A.cfg".
11. Sensors.c : Expand test to include User define and Modbus sensor types in the function that checks if a SI is Digital.
12. CENT.c: Implemented is_si_digital function. Replaced calls that test for display_type == DIGITAL_INPUT
13. CPM -> Keep the CW and CND pumps running on a Post Delay after a chiller is disable. I added a chiller unload state that forces the CW and CND pumps to stay ON for the time specify in SP 75 Sec to Ignore field.
14. EXV.c Fast SSH control MagRef & HCRF. Compiled error " Need to to correct the following error "(1689,47) : ERROR (128) Identifier "b_circuit_ram" not defined within current scope" . Changed #define to include B_CIRCUIT_RAM_TYPEDEF
15. EXV.c : Copied changes done by JGW. Added NEW FAST SUPERHEAT INITIALIZATION that was deleted during last Merge. JGW is working on a new exv self calibration option that is only enable when SPT11 is active.

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