



SOFTWARE RELEASE NOTES

MCS-MAGNUM

Version 17.34B

06/05/2018

Updates from previous versions: 17.32D

New Features:

1. Merged Nitromag Code
2. HVAC, RTU, PAO, MHRC, CDT, & Cent firmware only - Add new condenser control sensor Differential Pressure (Discharge PSI - Suction PSI). with option to modified the diff target based in discharge superheat. if discharge superheat is low increase diff targ.
3. All Firmware versions - Add option for BMS SI sensor type - added a option when BMS communication is lost do not change the SI value, keep the last value the BMS wrote.
4. Added logic for Non MagREFR code in algo.c to calculate circuit_evap_saturated & circuit_evap_superheat. New fields were added to MCS-Config (18.00V) on 03/2017.
5. ALL Firmware versions - Add new condenser control sensor option, Differential Pressure (discharge psi - suction psi) with low discharge superheat adjustment to the target. Required new MCS-Connect and MCS-Config.
6. HVAC only - Add logic for Heat Recovery Mode. This logic uses the heapump mode logic, just no reversing value and do not stage the cond backwards.
7. Added logic for Non MagREFR code in algo.c to calculate circuit_evap_saturated & circuit_evap_superheat. New fields were added to MCS-Config (18.00V) on 03/2017.

Bug Fixes:

1. As per BWW. Due to the limited space on the LCD screen removed Trend information (120s history data for comp alarms) from the Lockout alarm screen. We are only going to display the alarm index number, text, date and time information.
2. While testing new extended alarm feature in MCS-Connect I found that some of the LockOut alarms Additional info buttons were disappearing even though the total number of LockOut alarms was less than the MAX_EXTENDED_ALARM_INFO_RECORDS(10).

Any questions regarding this release, contact:

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3. Reported by Dan Chapman. CPM is not posting alarm on keypad when an Emergency/Stop is triggered. Connect was also posting incorrect data for Emergency stop. (Bug in 17.32D, Fixed in 17.33B) (Connect fix in 18.19.11)
4. ACU firmware only - change the conversion for Supply Air Target sensor type - it was testing the unit mode to decide how to convert the sensor input, change to use the position of the unit mode switch. This way when the unit is off and the mode is set to heating, the user can adjust the supply target before start the unit. Previous version, when the unit was off it was using the cooling range for the supply target sensor type.
5. Reported by D2-> "If the CPM loses communication with a chiller. The chiller will default its valve open to run standalone. I've tried this with both run and stop when BMS communication is lost. I've had it running with all 7 valves open because the CPM assumes the valve is off when we lose communication with a chiller. If we set the chiller to stop when communication is lost we need to close the valve as well. "
6. HVAC& CDI Firmware Only - Corrected power up/reset initialization of the lead pump indicator for the 2nd evap pump control logic. The 1st evap pumps logic.
7. CENT and CDI: ERROR (140) Identifier "cond_comp_starting_offset" is not a member of NONAME15 structure
8. As per BWW fire warning relay instead of the alarm relay after a sensor fault alarm. This is done to prevent BMS systems that are monitoring the Alarm RO indicator from shutting unit down on a non lockout safety alarm.
9. HVAC, CENT, RTU, PAO, CDI only - The test if oil pump relay and oil heater relay and their logic is enable/used was wrong. The test was check for the oil pres and oil temp sensor to be less than MAX_RELAY_OUTPUTS when it shuld have been test for MAX_SENSORS.
10. 0As per BWW fire warning relay instead of the alarm relay after a sensor fault alarm. This is done to prevent BMS systems that are monitoring the Alarm RO indicator from shutting unit down on a non lockout safety alarm.

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