



SOFTWARE RELEASE NOTES

MCS-MAGNUM Version 17.12A 12/17/2014

Updates from previous versions:

New Features:

1. If setpoint #35 "AMP DB HI" display type (#decimal & char column in MCS-Config) is setup as "Humd or %" then the setpoints #35 & #36 values are percentages. These percentages are used to calculate an AMP dead band based on the comp FLA set point values. Otherwise if display type is not "Humd or %", then the set point values are used as AMP dead bands (this is the existing logic).
2. If setpoint #43 "C-PMPDWN FLA" time field is not equal to zero, then the centrifugal vanes closed relay is pulsed when in the Pumpdown & Loading states before the comp is stopped. Otherwise if the time field is equal to zero the old logic is used where the vanes closed relay is turning on (not pulsed). Pulsing allows for slow unloading when the run/stop is turned off and comp is fully loaded.

Bug Fixes:

1. Prevented outdoor air damper from being controlled by an inactive damper control.
2. Merged remote-tracking branch 'server/V16' into Dev-V17
3. HVAC Firmware - Econo/Subcooler logic - new feature was added to the logic to allow the Econo relay to be turned off due to low suction or high discharge pressure. The test for high discharge was not added correctly. It needed to test if the set point was as TARGET type to active this new feature – However, if the low suction is inactive (if set point type was not a TARGET type), the high discharge unloading (turning off) was always active (not testing for target) and it would use the value in the set point time to ignore and time to extend fields as pressure values to turn off the Econo relay. **Added test to only turn off dur to dish if set point is target type, otherwise Econo relay cycle strictly on comp actual FLA% position.**
4. RTU Firmware - MOD SCR & STAGED GAS were not shutting down when the Run/ STOP switch went to stop. It was found that in the Heat_off function we were not testing for MOD SCR or STAGED GAS.
5. RTU: Bug Fix to allow OAD set points to be 0%
6. RTU: Bug fix to ensure highest OAD controller wanted % wins rather than a preference between them.

Any questions regarding this release, contact:
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