



SOFTWARE RELEASE NOTES

MCS-MAGNUM Version 9.11A 09/21/2012

Updates from previous versions:

New Features:

1. Expanded Bacnet ID. ID was limited to 18100 to 18199. The 181 was a fixed value. Value now can be from 0 to 40194303. To activate the expanded ID the configuration file must be updated using MCS Config 9.03Z. MCS Connect 9.03R will support updating this value. If the config has not been updated using the expanded ID (in the setup screen) the old value of 18100 to 18199 will be used. *(Please verify the config & connect version #)*
2. Implemented sensor type to capture dew point temperature. This sensor requires an index to temperature and humidity sensors (same as ENTHALPY type). This makes this sensor virtual. If temperature is Centigrade the equation is $\text{temperature} - (100 - \text{humidity}) / 5$. If temperature is Fahrenheit the equation is $\text{temperature} - 9/25(100 - \text{humidity})$. This approach is accurate to within about $\pm 1^\circ\text{C}$. The sensor will have 1 decimal place and the print character will be D for both Centigrade and Fahrenheit. *(Please check versions of connect & config to support this sensor)*

Bug Fixes:

1. Issue with saving for the lockout alarms the flow status, amps B & C; also the effected EXV control logic if set point #230 was active.
2. Conductivity Sensor was set to 1 decimal place. Corrected and changed to 0 decimal places; both the connect & config programs have it as 0.
3. Support of Johnson N2 has been dropped.

EXV Control Logic (implemented in HVAC & RTU):

4. The low suction control logic has been modified. Prior if suction was less than high value of set point #64 if it was active and type is TARGET or if inactive or not a TARGET then the value calculated for zone X2 the EXV state was set to LOW SPRHT. Added before this state can be exited the suction pressure rate of change cannot be negative.

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

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HVAC:

5. Do not let a compressor come on if another compressor that is running and in the same suction group is in an unload state (such as low suction unload) .
6. Changed the test to determine if a compressor that is running for oil recovery logic (added in 9.10-A) to standard test to determine if compressor should be off. Also added adjustment to EXV control when compressor is turned off or on.
7. CLLC control, updated the closing of analog output to use the closed off option. Refer to the Subcooler Valve Option in the Evaporator Information window.
8. In the oil recovery function (added 9.01-F) set points #218 – 224 all contain time values expressed as seconds. These set points are now checked if the type is in minutes or hours then the value is converted internally to seconds for logic testing. This enables these set point to be set up individually as seconds, minutes or hours.

LWC (LOOP):

9. Problem when 2 pumps, max on of 1 with no rotation. When pump 1 failed system switched to the second pump as it should, however after the run/stop was placed in stop and the failure of the first pump was corrected and then the run/stop set to run the second pump was started. This is incorrect the first pump should have started. This problem corrected.
10. The ability to modify the pump target in each loop was added. A new column indicating the sensor to modify the pump target per loop has been added. This will function similar to the modification of the heat/cool loop target. Set point #17 will be used to test the max adjustment if sensor is no a TARGET RESET type. *(Please check the config version number that supports this option)*

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