



SOFTWARE RELEASE NOTES

MCS-MAGNUM

Version 17.22C

04/14/2016

Updates from previous versions: 17.22B

New Features:

1. Cent Firmware only - Add logic to calibrate vanes sensor input - both virtual and potentiometer. If calibration is successful the alarm "VANE CALIBRATED" is generated, otherwise one of the other alarms is generated. The operator can start the calibration logic by changing the comp control state to "VaneCal". When the vane calibration is finished the comp state is set to "Cmp is Off/Ready" and comp's control state is set to "Auto". Add separator vane open and vane close adjustment for the virtual vane sensor input.
2. CENT firmware only - Add new comp startup sequence. Setup setpoint #129 time column value greater than 1 to enable this new start sequence. Once enable the comp will start at Max Speed and turn on the vane open relay until the vane % is greater than or equal to min vane setpoint #31 or until time delay has elapsed. The time delay is the value in the time column. Suggest a value of 30-45sec in the time column for this feature. Once the vane reach min vane % or the time has elapsed the comp will go to the holding state and the comp speed will be reduce to min allowable speed.
3. All Firmware - Disc Press Ratio is always calculated every second now. Previous it was only calculated every second if disc pressure ratio condenser control was enabled.
4. CENT Firmware only - Continue work on virtual vane sensor input add for VFD centrifugal with vane potentiometer. If vanes are wanted fully open and the fully open switch is not made, keep open the vanes by reset the virtual vane sensor input to 90.0%. Keep doing this until the vane closed switch is closed. Once closed set the virtual vane sensor input to 101.0% to indicate Vane are fully open. Do the same when fully closed, and indicated the fully closed switch was made by setting the virtual vane sensor input to -1.0%.
5. CENT Firmware only - Added logic to allow setpoint #31 Min Vane % setpoint value to be dynamically define by lookup table.
6. HVAC & CENT firmware - Add logic to generate an alarm when the compressure are running and shutdown due to loss of flow. To enable this new alarm setpoint #105 has to be active and setup as "Lockout" or "Alarm" type.

Any questions regarding this release, contact:

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Bug Fixes:

1. CENT firmware only - correct issue of using the wrong speed - was use min vanes setpoint but need to be used min comp speed setpoint.
2. All software that uses demand limit sensor, if less than value of set point #31, min value, set it to value of #31,
3. Make RO user logic timers match those of MCS Config
4. CENT, Magnum status screen make VDG as part of the circuit loop. Can now have multiple circuits

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