



SOFTWARE RELEASE NOTES

MCS-MICROMAG

Version 4.000

03/19/2013

Updates from previous versions:

New Features:

1. Added safety down ability to ignition
2. Added Modbus Network Forced Mode and Staging
3. Added in the ability for scheduling to shut off a unit
4. Added in support for Hi Ambient Off setpoint
5. Added support for the Digital Scroll with STARTING VFD PERCENT setpoint
6. Added support for Low Ambient Off setpoint

Bug Fixes:

1. Condenser Percent Wanted was showing up on BACnet even if it was a staged condenser. Resolution: Checked whether or not the condenser had variable capacity before adding it
2. Issues with BACnet communication between MicroMags @78600 baud. Resolution: Moved set direction transmit to just before message was sent, also rather than waiting up to 9ms of silence time before sending a frame, now only waits up to 5 ms. Also removed interrupt reference and moved it to just before sending the frame rather than just after preparing the frame.
3. When in dehumidification, the compressors were not being updated based off of the number of available compressors Resolution: Updated the number of cooling stages based on number of compressor stages available.
4. When in cooling and a compressor did not come on at the same time the capacity control requested, the demand reduced two times rather than one (when adding a stage, and when the requested stage activated) Resolution: Added a flag to the target control structure that would allow the capacity control to not adjust demand when adding a stage.
5. When in reheat, the MicroMag is calculating the number of reheat stages incorrectly, because MCS-Config is not using the field that was expected Resolution: Swapped the names for values 17 (numb_cooling_stages) and 44 (reheat_num_ROs) everywhere. Since 44 isn't being written anywhere in MCS-Config, removed all references to it.

Any questions regarding this release, contact:
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6. If target and enable sensors are the same sensor, MicroMag was not leaving cooling mode appropriately when humidity is high Resolution: Made a check to see whether the minimum value was overridden
7. Made smoke alarm work like the phase loss alarm
8. Made ignition safety temperature adjust based off of the lowest temperature hit while in ignition
9. Made return damper function independently of return bypass damper position and only work inversely with economizer position
10. If safety down time is 0 on either phase loss or smoke alarm, the unit will not lockout properly. Resolution: Ensured that the timer counted to at least 1 in order to prevent the unit putting itself in reset multiple times
11. Override switch does not reset to default anymore, it now simply resets the override timer
12. Zone Sensor was not locking out unit when it was locked out. Resolution: Checked for zone sensor, locked out if it is out of sensor range
13. When it was time to call morning warm-up, if the unit was not demanding any cooling, heating, or dehumidification, the unit was overriding the morning warm-up call. Resolution: Eliminated the override and made some checks for morning warm-up in other corner case areas

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