



SOFTWARE RELEASE NOTES

MCS-MICROMAG

Version 4.00I

01/18/2013

Updates from previous versions: Includes Versions 4.00E, F, G and H

New Features:

E

1. Made ROs read on Modbus Read Coils command
2. Made SIs read on Modbus Read Input registers
3. Began work on implementing Modbus "read holding registers" command (completed AVs)
4. Added support for changing forced mode and staging in Modbus and BACnet. This is separate from hardwired forced mode and staging. (not yet implemented)
5. Added support for heating to supplement reheat (NOT IMPLEMENTED)

Bug Fixes:

E

1. Added sensor names for high and low pressure switches. Also added a generic condenser fan enable name for ROs.
2. Renamed supervisory direct and indirect modes to "hardwire forced mode and staging" and "hardwire forced mode" respectively
3. Added a warning RO name to the name list

F

4. Smoke alarm and Phase Loss previously simply relied on whether a setpoint was active to determine whether to check safety down time. Resolution: For Smoke alarm, removed safety down time logic. For phase loss, required the setpoint type to be a safety/alarm setpoint to look at safety down time.
5. Safety unload logic was fully unloading on first attempt because it read the wrong variable for current AO value Resolution: Fixed check for current AO value in safety unload logic
6. Hi Amp Hold was looking at wrong variable Resolution: Hi Amp Hold now looks at STPT_HI_AMP_HOLD rather than STPT_HI_AMP

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

Micro Control Systems, Inc. 5580 Enterprise Parkway Fort Myers, Florida 33905
(239)694-0089 FAX: (239)694-0031 www.mcscontrols.com

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7. Cooling and Reheat flushing was not occurring for a long time unless reheat demand was above the reheat flush setpoint Resolution: Forced flush cycle to trigger below zero in reheat and in cooling
8. High Amp Unloading algorithm was not being checked if a discharge temperature SI existed Resolution: Moved check for discharge temp SIs to within their respective checks
9. Renamed some unused setpoints to SPARE
10. Compressors would not stage off if unit mode was in high humidity cooling override Resolution: Modified capacity control algorithm to support modifications to minimum or maximum
11. When economizer mode is open when occupied (usually used in outside air only units), the outside air damper would shut off when evap fan is in post delay
12. Changed low and hi PSI switch names Resolution: When evap fan is in post delay, leave outside air damper open

G

13. Outside Air Damper would shut off in OAD only mode when evap/supply fan goes to post delay Resolution: Replaced check for evaporator fan to one that checked whether it was running at all when in ECON_OPEN_WHEN_OCCUPIED mode
14. Changed setpoint names that were SPARE to SPARE STPT to bring them in line with the other spare setpoints
15. When switching from cooling to dehumidification, logic was losing a stage of cooling because RTU was in evap fan only for a second Resolution: When switching from cooling mode, made a check to go straight to dehumidification mode from cooling

H

16. When cooling has no fixed stages, cooling capacity control was set to variable rather than fixed Resolution: Added a check for fixed/modulating after initialization for capacity control structures

I

17. When economizer has an AO and a RO, if the AO is above 0, the economizer RO would not turn on Resolution: Turned on economizer RO when economizer AO was above 0

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