SOFTWARE RELEASE NOTES

MCS-MAGNUM
Version 9.11M
12/19/2012

Updates from previous versions:

New Features:

1. **New modulating condenser types that were added to HVAC have been added to RTU. These should function exactly the same as in HVAC. (Appears to be a problem with modulating with no relays, will also check this.)**

Bug Fixes:

1. **Modulate O/S damper on high CO2 levels, option in config next to CO2 cell. Setpoint #131 value will be target, time (SEC) will be the delay between adjustments and the high & low zones; #207 value is minimum opening if not modulating; #206 value is the multiplier and night setback is the divisor.**
2. **The test to disable the economizer has been changed. In config setup the 'Econ Control O/S' and 'Econ Control RET' cells in the Unit Sensors in the General Info screen. If both cells are setup then the comparison is O/S must be less than RET minus the value of set point #118. If not the economizer function will be disabled. If either of the cells are not set up the system will default to compare the ambient temperature to the return temperature. The purpose of the change is that the outside air should be used if it is better than the air that is being exhausted (return). The two cells can be set to point to any type of sensors as needed.**
3. **Changed set point providing the offset to determine if the energy wheel can function. This value was in set point #228's high zone. It is now in set point #180's value field. If set point #180 is inactive then a fixed value of 2.0 will be used as the differential. This will enable BMS to change this offset.**
4. **Corrected the issue with disabling the economizer function.**

Any questions regarding this release, contact:
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5. **Added the override function to the zone temperature sensor. The MCS-ZONE-OVR-RST must be setup in the zone temperature cell. When the system is in the UNOCCUPIED mode by pressing the override button the temperature sensor reading will be interrupted and the value will go to 999.9. This indicates that the override button has been pressed. The system will change the mode from UNOCCUPIED to OVER RIDE for the time specified in set point #118. If the reading remains at 999.9 for 10 seconds then a sensor fault is generated.**

   Note, set point #118 value contains the override time. The set point can be setup as SECONDS, MINUTES, or HOURS.

6. **Lock off the unit based on sensor failure (this can be -99.9/999.9 or values specified in the Sensor Fault HI/LOW fields) if they are specified in the Control Mode On:**
   Fan Only Mode control sensor fails and all Forced sensors are NOT USED.
   Cooling Mode control sensor fails and the Forced Cooling sensor is NOT USED.
   Heating Mode control sensor fails and the Forced Heating sensor is NOT USED.

   Note, if the Forced sensors are used then they control when the various modes are entered not the control sensor; therefore, do not lock out the unit.

   If any of the above occur a failed sensor message will be generated and the unit will be LOCKED OFF.

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