8000 Room Controllers

Frequently Asked Questions

Q1: Using the uploader software, can I convert my 8350 to an 8650 and vice-versa?

A1: It is not possible anymore since the new hardware version (firmware v2.0+).

Q2: Why are the 8350 Cool and Heat outputs simultaneously activated?

A1: The Dehumidification is activated. If dehumidification is not required, set the "Dehum lockout" parameter to "Disable".

Q3: Why does the 8350 fan stay in low speed instead of shutting down when there is no demand?

A1: The "Fan mode" is set to "Low" instead of "Auto".

A2: The "Auto Fan func." is set to "AS". Change the setting to "AS / AD".

A3: The Dehumidification is activated. If dehumidification is not required, set the "Dehum lockout" parameter to "Disable".

Q4: Why does the 8650 fan stay ON even when there is no demand?

A1: The "Fan mode" is set to "On" or "Smart". Change the setting to "Auto".

A2: The Dehumidification is activated. If dehumidification is not required, set the "Dehum lockout" parameter to "Disable".

Q5: Why is the 8650 Modulating output UO11 not modulating?

A1: The "Heat stages" parameter must be set to 0 (zero) to activate 0-10 Vdc heat on UO11.

A2: The output will stay at 0 Vdc if there is a demand for Cooling or if there is no demand for Heating from the Room nor Supply.

Note: You can use the "Test outputs" page to force a voltage on UO11 (anywhere between 0 and 10 Vdc).

Q6: Why are the 8650 Heat stages turning ON, but the Fan remaining Off?

A1: The "Fan cont. heat" parameter is set to "Off". Change the setting to "On".

Q7: Why is the configuration parameter highlighted in red and not editable?

A1: The configuration parameter has been overwritten at a higher BACnet priority. This may have been done by a Building Automation System (via BACnet MS/TP or IP), or by a LUA script running on the room controller.

Q8: After setting temperature setpoints over BACnet, why can they not be changed at the thermostat?

A1: The point has been added to the BAS as "Present Value". Change it to "Relinquish Default".

Q9: Why are parameters configured via BACnet lost after a power-cycle?

A1: BACnet points written between priorities 4 to 16 are lost after a power-cycle. Use priority 1, 2 or 3 or "Relinquish Default".

Q10: Why do heating outputs W1 and W2 indicate ON but there is no voltage output?

A1: W1 and W2 outputs are isolated. They do not switch "RC" 24 Vac. They are switching "RH" terminal. Install a jumper across "RC" and "RH".

Q11: What type of temperature sensors are compatible?

A1: NTC 10,000 Ohm type 2.

Q12: Can a remote sensor average with an internal sensor?

A1: The remote room sensor (UI20) can take over the internal sensor but not average with it.

A2: A custom LUA program can be loaded in the 8000 to average, or to get the highest and lowest temperatures from one or multiple remote sensors.

Q13: Can an 8650 Outside Air Temperature (OAT) sensor input (UI23) be used for another sensor like Mixed Air?

A1: No, the input will automatically display "Outdoor: XX°X" on the display and the related OAT lockouts may block thermostat operations.

A2: Use another free input such as UI19, UI20, UI22 or UI24.

Q14: Can the outdoor temperature be sent over BACnet instead of using a wired 8650 OAT sensor? If yes, will the lockouts still work?

A1: Yes, the outside air temperature can be sent to all 8000 room controllers over BACnet. All OAT-related features and lockouts will work.

Q15: Can a remote humidity sensor be used?

A1: Not natively, a custom LUA program can be loaded in the 8000 to use a 0-10 Vdc humidity sensor and take over the 8000 internal sensor.

Q16: Do analog inputs accept a 4-20 mA signal?

A1: The 8000 does not accept a 4-20 mA signal, however, a 500 Ohm resistor across the input transforms 4-20 mA to 2-10 Vdc.

Q17: Can 0-10 Vdc input and outputs be set to 2-10 Vdc?

A1: Most inputs and outputs are operating on the full range of 0 to 10 Vdc. There is no parameter to re-scale to 2-10 Vdc, except for the damper actuator and duct fan on the VAV 8250.

A2: A custom LUA program can be loaded in the 8000 to re-scale the inputs and outputs to 2-10 Vdc or anything else.

Q18: Why does the 8650 dehumidification status indicate ON but the Y1 and Y2 compressors are Off?

A1: The 8650 dehumidification does NOT activate Cooling nor Heating outputs. It only activates Fan and UO12 (for units with a built-in dehumidification sequence).

A2: A custom LUA program can be loaded in the 8650 to activate Y1, Y2, and W1 with sub-cool and over-heat protections.

Q19: Can configuration parameters and the occupancy schedule be saved from one 8000 then loaded in others?

A1: Use the Uploader8000 Software to download configuration points, schedule, date and time, etc. from one 8000 then upload into all others.

Q20: Can the 8000 communicate with 3rd-party ZigBee devices?

A1: No, it is not possible.

Q21: What can I do when the 8000 is password protected and I do not have it?

A1: Call your Technical Support agent, who will guide you through the password recovery process..

Q22: Is there or will there be an SEZ8650 for the corresponding RTU/AHU?

A1: There is currently no plan to create a VVT system with an 8650 controlling the RTU/AHU for zones controlled by the 8250.

Q23: Can we rename the objects?

A1: The 8000 series does not support renaming of objects.

Q24: Is there a suggested list of actuators and flow control?

A1: Recommended damper:
Schneider Electric MS41-6043 or equivalent

A2: Recommended air flow sensor:
Schneider Electric (Veris) PX3PXX01 or equivalent

Q25: Can you explain how CFM is measured in this application?

A1: Refer to the documentation for details. Flow measurement requires a Differential Pressure Sensor with a 0-10V analog output.

Q26: On the Bacnet IP product announcement, it mentioned a future wired Bacnet IP solution. Is that still planned?

A1: Wired ethernet is on our priority list, but support from the 8000 family is not currently scheduled due to complexities of mechanical design and installation.

Q27: Can you install the CO_2 plugin module?

A1: Yes, you can use the VCM8001 CO_2 module with the 8250. As there is only one expansion connector you can only install one VCM (ZigBee, CO_2 or Wi-Fi).

Note: SKUs are available with internal ZigBee, leaving the expansion connector available for CO_2 or Wi-Fi.

Q28: Is the duct heating only controlled via Room Temperature via its Demand, or can it be configured to do Discharge Air Control thru Configuration - or would that require LUA Script ATM?

A1: Duct heating is currently only controlled via Room Temperature, and hence Heating Demand.