

DESCRIPTION

The AntrumX central air monitoring solution can be directly connected to the Antec PACE critical space controller by using the [BACnet Writes](#) feature of antrumEYE to write the contamination level of the room to an ACH target BACnet object in the PACE controller.

HOW IT WORKS

First, in the Antec Toolbox

1. Map an Analog Input to an ACH target:

EDIT ANALOG INPUT Save Cancel

Usage: **ACH** Port: **Analog Input 1**

Minimum Voltage: V Maximum Voltage: V

Minimum Value: ACH Maximum Value: ACH

Device Name:

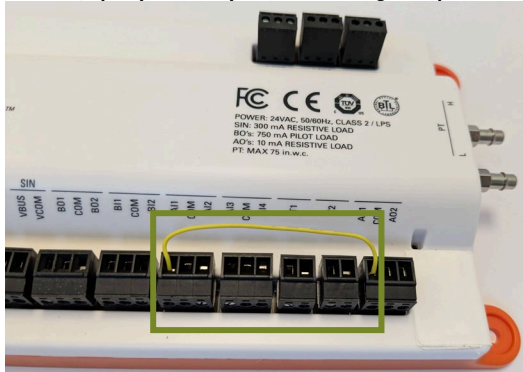
2. Add the ACH target to the Room's Sequence at the end, as a DCV Sequence:

The screenshot shows the ANTEC controls interface for the ROOM SEQUENCE MANAGER. The left sidebar lists various control categories: ROOM DETAILS, AIRFLOW, TEMPERATURE, HUMIDITY, ENVIRONMENT, BACNET, and INDICATORS. The main panel is titled 'ROOM SEQUENCE MANAGER' and includes a 'Save' and 'Cancel' button. Below the title, there are fields for 'Room Name' (Antec Pace), 'Room Volume' (2,025 ft³), and 'Air Change Basis' (Supply). There are also buttons for 'Disable DCV', 'Disable Temperature', and 'Enable Humidity'. The 'AIRFLOW SEQUENCE' section includes 'Supply Airflow Control', 'Control Method' (Supply Only), and 'Pressure Sensor Strategy' (Average All Sensors). It also has input fields for 'Static Supply Flow' and 'Static Exhaust Flow', both set to 0 CFM. The 'TEMPERATURE SEQUENCE' section includes 'Space Temperature Control' and 'DAT Limit Control', with various proportional, integral, and derivative control parameters. The 'DCV SEQUENCE' section has a dropdown menu for 'ACH Target Source' which is highlighted with a green box, showing 'ACH1' as the selected option.

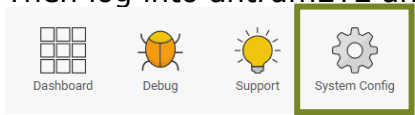
3. The PACE cannot update the Analog Input directly from BACnet, but it can update an Analog Output directly from BACnet. So, add an Analog Output:

The screenshot shows the 'EDIT ANALOG OUTPUT' dialog box. It has 'Save' and 'Cancel' buttons at the top. The 'Usage' is set to 'Valve Airflow' and the 'Port' is 'Analog Output 1'. The 'Minimum Voltage' is 0.000 V and the 'Maximum Voltage' is 10.000 V. The 'Minimum Value' is 50 CFM and the 'Maximum Value' is 1,000 CFM. The 'Airflow Input' is set to 'SAV-1' and the 'Device Name' is 'Generic Voltage'.

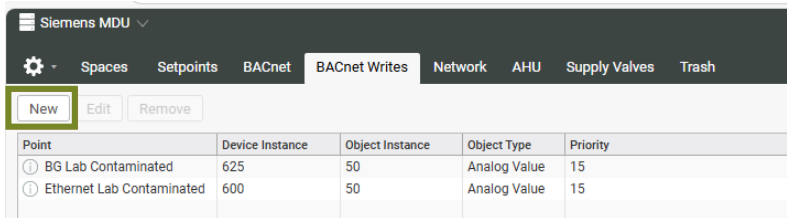
4. Then, physically install a jumper between the Analog Output and the Analog Input:



5. Then log into antrumEYE and select System Config:



6. Select the [BACnet Writes](#) tab and select New:



7. Select the appropriate space and enter the device instance of the PACE controller. Then select Analog Output as the object type and enter the object instance of the analog output you configured. Lastly, set the priority to 15 and click ok to proceed.

New BACnet Write

Space: 1001

Point: Contaminated

Device Instance: 158001

Object Type: Analog Output

Object Instance: 11

Priority: 15

OK Cancel

The BACnet Writes list is updated with the new entry and antrumEYE starts writing the Percent Contaminated value to the PACE controller.