



Document Name  
**BACNET POINTS LIST**

Unit Type  
**IAQ Program Versions IAQ 3.2.3 & AQP 1.0.0 & Above**

#	Description	Type	R/W Status	Comments
1	Network Occupied Input	BV	Read/Write	0 = Unoccupied, 1=Occupied.
2	Occupied	BV	Read Only	Confirmation of Occupied Status.
3	Alarm Active	BV	Read Only	Confirmation of Alarm Status. 0 = Alarm, 1 = Normal.
4	Air Flow	BV	Read Only	Confirmation of Air Flow. 0 = No Flow, 1 = Flow.
5	Supply Fan	BV	Read Only	Confirmation of Supply Fan, 0 = Off, 1 = On.
6	Exhaust Fan	BV	Read Only	Confirmation of Exhaust Fan, 0 = Off, 1 = On.
7	Wheel Motor	BV	Read Only	Confirmation of Wheel Motor, 0 = Off, 1 = On.
8	Compressor #1	BV	Read Only	Confirmation of Compressor #1, 0 = Off, 1 = On.
9	Compressor #2	BV	Read Only	Confirmation of Compressor #2, 0 = Off, 1 = On.
10	Compressor #3	BV	Read Only	Confirmation of Compressor #3, 0 = Off, 1 = On.
11	Compressor #4	BV	Read Only	Confirmation of Compressor #4, 0 = Off, 1 = On.
12	Condenser Fan #1	BV	Read Only	Confirmation of Condenser Fan #1, 0 = Off, 1 = On.
13	Condenser Fan #2	BV	Read Only	Confirmation of Condenser Fan #2, 0 = Off, 1 = On.
14	Condenser Fan #3	BV	Read Only	Confirmation of Condenser Fan #3, 0 = Off, 1 = On.
15	Condenser Fan #4	BV	Read Only	Confirmation of Condenser Fan #4, 0 = Off, 1 = On.
16	Remote Reset	BV	Read/Write	Write 1 to Reset. 0 is set after a program scan.

#	Description	Type	R/W Status	Comments
1	Suction Pressure	AV	Read Only	In Tenths, linear from 0 to 250 psig.
2	Discharge Pressure	AV	Read Only	In Tenths, linear from 0 to 650 psig.
3	Intake Air Relative Humidity	AV	Read Only	In Tenths, linear from 0 to 100 %.
4	Intake Air Temperature	AV	Read Only	In Tenths, linear from -42°F to 137°F.
5	Intake Air Dewpoint	AV	Read Only	In Tenths, calculated value in °F.
6	Supply Air Temperature	AV	Read Only	In Tenths, linear from -58 to 212 °F.
7	Zone Air Temperature	AV	Read Only	In Tenths, linear from -58 to 212 °F.
8	Zone Air Relative Humidity	AV	Read Only	In Tenths, linear from 0 to 100 %.
9	Suction Press Circuit B	AV	Read Only	In Tenths, linear from 0 to 250 psig.
10	Discharge Press Circuit B	AV	Read Only	In Tenths, linear from 0 to 650 psig.
11	Supply Fan Speed Command	AV	Read Only	In Tenths, linear from 0 to 100 %.
12	Auxiliary Heating Comm.	AV	Read Only	In Tenths, linear from 0 to 100 %.
13	Outside Air Damper Comm.	AV	Read Only	In Tenths, linear from 0 to 100 %.



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#	Description	Type	R/W Status	Comments
14	Recirc. Damper Command	AV	Read Only	In Tenths, linear from 0 to 100 %.
15	Exhaust Fan Speed Comm.	AV	Read Only	In Tenths, linear from 0 to 100 %.
16	Wheel Speed Command	AV	Read Only	In Tenths, linear from 0 to 100 %.
17	Outside Air Relative Humidity	AV	Read Only	In Tenths, linear from 0 to 100 %.
18	Outside Air Temperature	AV	Read Only	In Tenths, linear from -42°F to 137°F.
19	Return Air Relative Humidity	AV	Read Only	In Tenths, linear from 0 to 100 %.
20	Return Air Temperature	AV	Read Only	In Tenths, linear from -42°F to 137°F.
21	Supply Air Setpoint	AV	Read/Write	In Tenths, settable from 45.0 to 99.9 °F.
22	Zone Air Setpoint	AV	Read/Write	In Tenths, settable from 55.0 to 95.0 °F.

#	Description	Type	R/W Status	Comments
1001	Unit Status	INT	Read Only	Unit Status. See Table 1 at end of list.
1002	CO2 In Zone	INT	Read Only	0 to 2000 ppm.
1003	CO2 Outside	INT	Read Only	0 to 2000 ppm.
1004	CO2 Differential	INT	Read Only	CO2 In Zone minus CO2 Outside, 0 to 2000 ppm.
1005	Heat Wheel Supply Pressure	INT	Read Only	Inches of water column, in thousandths, ie.1452 = 1.452 "wc
1006	Heat Wheel Exhaust Pressure	INT	Read Only	Inches of water column, in thousandths.
1007	Air Flow Differential Pressure	INT	Read Only	Inches of water column, in thousandths.
1008	Alarm Code	INT	Read Only	Alarm code. See Table 2 at end of list.

CODE	STATUS DESCRIPTION
0	Unit Satisfied / Unit Off
1	Heating Required
2	Cooling Required
3	Dehumidification Required
4	Dehum and Heating Required
5	Dehum and Cooling Required
6	Low Suction Pressure Condition
7	EXV Initialization
8	Damper Opening
9	High Discharge Pressure Limiting
10	Pump Down Required
11	Compressor Switched Off
12	Variable Speed Comp. Limiting

Table 1



Document Name  
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Unit Type  
**IAQ Program Versions IAQ 3.2.3 & AQP 1.0.0 & Above**

CODE	ALARM DESCRIPTION
1	Low Suction Pressure
2	Motor Overloads
3	High Discharge Pressure A
4	High Discharge Pressure B
5	Multiple Low Pressure A
6	Multiple Low Pressure B
7	Temperature Sensor Fault
8	pAD Network Fault
9	SAT Out of Range
10	Air Filter Clogged
11	Low Voltage Fault
12	High Condensate Level
13	Low Water Flow
14	Smoke Alarm
15	Low Air Flow
16	Freeze 'Stat Alarm
17	Condenser Overload Alarm
18	ModBus Comm. Fault
19	High Refr. Discharge Temperature
20	High Super Heat
21	Low Oil Level Alarm
22	Fixed Speed Comp. Phase Fault

Table 2

Revision (Rev.) History				
Rev.	Description	Date	Initials	ECN #
00	Initial Release	5/6/2010	MTW	1630
01	Added FREEZE 'STAT Alarm	4/21/2011	MTW	1697
02	Added Table 1 Unit Status	7/21/2014	MTW	2368
03	Revised for external wheel module, version 3.2.0	1/16/2015	MTW	2442
04	Revised Tables 1 & 2 for release of Aura Q-Pump Inverter Plus units	4/30/2015	MTW	2485