



Document Name  
**LON POINTS LIST**

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

#	DESCRIPTION	TYPE	SNVT	Dir	UNITS	COMMENTS
1	Suction Pressure	AV	30	Out	K Pa	Linear from 0.0 to 1724.0 K Pa.
2	Discharge Pressure	AV	30	Out	K Pa	Linear from 0.0 to 4482.0 K Pa.
3	Intake Air Relative Humidity	AV	81	Out	%	Linear from 0.0 to 100.0 %.
4	Intake Air Temperature	AV	105	Out	°C	Linear from -42.0 to 58.0 °C.
5	Intake Air Dewpoint	AV	105	Out	°C	Calculated value in °C.
6	Supply Air Temperature	AV	105	Out	°C	Linear from -50.0 to 100.0 °C.
7	Zone Air Temperature	AV	105	Out	°C	Linear from -50.0 to 100.0 °C.
8	Zone Air Relative Humidity	AV	81	Out	%	Linear from 0.0 to 100.0 %.
9	Suction Pressure Circuit B	AV	30	Out	K Pa	Linear from 0.0 to 1724.0 K Pa.
10	Discharge Pressure Circuit B	AV	30	Out	K Pa	Linear from 0.0 to 4481.0 K Pa.
11	Supply Blower Command	AV	81	Out	%	Linear from 0.0 to 100.0 %.
12	Auxiliary Heating Command	AV	81	Out	%	Linear from 0.0 to 100.0 %.
13	Outside Air Damper Command	AV	81	Out	%	Linear from 0.0 to 100.0 %.
14	Recirc. Damper Command	AV	81	Out	%	Linear from 0.0 to 100.0 %.
15	Exhaust Blower Command	AV	81	Out	%	Linear from 0.0 to 100.0 %.
16	Wheel Speed Command	AV	81	Out	%	Linear from 0.0 to 100.0 %.
17	Outside Air Relative Humidity	AV	81	Out	%	Linear from 0.0 to 100.0 %.
18	Outside Air Temperature	AV	105	Out	°C	Linear from -42.0 to 58.0 °C.
19	Return Air Relative Humidity	AV	81	Out	%	Linear from 0.0 to 100.0 %.
20	Return Air Temperature	AV	105	Out	°C	Linear from -42.0 to 58.0 °C.
21	Supply Air Setpoint	AV	105	In	°C	Settable from 7.2 to 37.7 °C.
22	Zone Air Setpoint	AV	105	In	°C	Settable from 12.7 to 25.0 °C.

#	DESCRIPTION	TYPE	SNVT	Dir	UNITS	COMMENTS
1	Unit Status	INT	8	Out		Unit Status. See Table 1 at end of list.
2	CO2 In Zone	INT	29	Out		0 to 2000 ppm.
3	CO2 Outside	INT	29	Out		0 to 2000 ppm.
4	CO2 Differential	INT	29	Out		CO2 In Zone minus CO2 Outside, 0 to 2000 ppm.
5	Heat Wheel Supply Pressure	INT	8	Out		Inches of water column, in thousandths, ie.1452 = 1.452 "wc
6	Heat Wheel Exhaust Pressure	INT	8	Out		Inches of water column, in thousandths.
7	Air Flow Differential Pressure	INT	8	Out		Inches of water column, in thousandths.
8	Alarm Code	INT	8	Out		Alarm code. See Table 2 at end of list.

#	DESCRIPTION	TYPE	SNVT	DIR	UNITS	COMMENTS
1	Network Occupied Input	DGT	95	In		0 = Unoccupied, 1=Occupied.
2	Occupied	DGT	95	Out		Confirmation of Occupied Status.
3	Alarm Active	DGT	95	Out		Confirmation of Alarm Status. 0 = Alarm, 1 = Normal.
4	Air Flow	DGT	95	Out		Confirmation of Air Flow. 0 = No Flow, 1 = Flow.
5	Supply Fan	DGT	95	Out		Confirmation of Supply Fan, 0 = Off, 1 = On.
6	Exhaust Fan	DGT	95	Out		Confirmation of Exhaust Fan, 0 = Off, 1 = On.
7	Wheel Motor	DGT	95	Out		Confirmation of Wheel Motor, 0 = Off, 1 = On.



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#	DESCRIPTION	TYPE	SNVT	DIR	UNITS	COMMENTS
8	Compressor #1	DGT	95	Out		Confirmation of Compressor #1, 0 = Off, 1 = On.
9	Compressor #2	DGT	95	Out		Confirmation of Compressor #2, 0 = Off, 1 = On.
10	Compressor #3	DGT	95	Out		Confirmation of Compressor #3, 0 = Off, 1 = On.
11	Compressor #4	DGT	95	Out		Confirmation of Compressor #4, 0 = Off, 1 = On.
12	Condenser Fan #1	DGT	95	Out		Confirmation of Condenser Fan #1, 0 = Off, 1 = On.
13	Condenser Fan #2	DGT	95	Out		Confirmation of Condenser Fan #2, 0 = Off, 1 = On.
14	Condenser Fan #3	DGT	95	Out		Confirmation of Condenser Fan #3, 0 = Off, 1 = On.
15	Condenser Fan #4	DGT	95	Out		Confirmation of Condenser Fan #4, 0 = Off, 1 = On.
16	Remote Reset	DGT	95	In/Out		Write 1 to Reset. 0 is set after a program scan.

Table 1

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 2

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

**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