

# AboveAir Technologies Standard BMS Points List

Analog Inputs					
BMS address	Name	Description	Min	Max	Read/Write
0	AI0_StaticPress	Duct static pressure	0.0	20.0	Read Only
1	AI1_RetTemp	Return air temp	-50.0	150.0	Read Only
2	AI2_OutdoorRh	Outdoor air rh	0.0	100.0	Read Only
3	AI3_OutdoorTemp	Outdoor air temp	-50.0	150.0	Read Only
4	AI4_SplyTemp	Supply air temp	-50.0	150.0	Read Only
5	AI5_ZoneCO2	Zone CO2	0.0	3000.0	Read Only
6	AI6_ZoneRh	Zone relative hum	0.0	100.0	Read Only
7	AI7_ZoneTemp	Zone temp	-50.0	150.0	Read Only
8	AI8_WaterTemp	Free or dual cool water temp	-50.0	150.0	Read Only
9	AI9_Condenser	Condenser analog out	0.0	100.0	Read Only
10	AI10_ClgVlv	Cooling valve analog out	0.0	100.0	Read Only
11	AI11_Compressor	Compressor analog out	0.0	100.0	Read Only
12	AI12_Damper	Damper analog out	0.0	100.0	Read Only
13	AI13_Heater	Heater analog out	0.0	100.0	Read Only
14	AI14_HotGasReheat	Hot gas reheat analog out	0.0	100.0	Read Only
15	AI15_SplyFan	Supply fan analog out	0.0	100.0	Read Only
16	AI16_RetRh	Return air rh	0.0	100.0	Read Only
17	AI17_VlvFeedback	Vlv Feedback	0.0	100.0	Read Only
18	AI18_MZ1Temp	Multizone 1 temp	-50.0	150.0	Read Only
19	AI19_MZ2Temp	Multizone 2 temp	-50.0	150.0	Read Only
20	AI20_MZ3Temp	Multizone 3 temp	-50.0	150.0	Read Only
21	AI21_HeadPidOut	Output of head pressure PID loop	0.0	100.0	Read Only
22	AI22_CO2PidOut	Output of CO2 PID loop	0.0	100.0	Read Only
23	AI23_AsePidOut	Output of ASE PID loop	0.0	100.0	Read Only
24	AI24_DeHumPidOut	Output of dehumidifier PID loop	0.0	100.0	Read Only
25	AI25_HumPidOut	Output of humidifier PID loop	0.0	100.0	Read Only
26	AI26_SplyFanPidOut	Output of supply fan PID loop	0.0	100.0	Read Only
27	AI27_ClgPidOut	Output of cooling PID loop	0.0	100.0	Read Only
28	AI28_HtgPidOut	Output of heating PID loop	0.0	100.0	Read Only
29	AI29_ResetSetp	Supply temp after reset schedule	50.0	90.0	Read Only

Analog Values					
BMS address	Name	Description	Min	Max	Read/Write
0	AV0_TempSetPt	Temp set pt	40.0	95.0	Read/Write
1	AV1_TempDeadbnd	Temp Deadband	0.0	20.0	Read/Write
2	AV2_ZoneTempHiAlrm	Zone temp high alarm set pt	0.0	150.0	Read/Write
3	AV3_ZoneTempLowAlrm	Zone temp alarm low set pt	0.0	120.0	Read/Write
4	AV4_ZoneRhSetPt	Zone RH set pt	10.0	90.0	Read/Write
5	AV5_ZoneRhDeadbnd	Zone RH deadband	0.0	20.0	Read/Write
6	AV6_ZoneRhHiAlrm	Zone RH high alarm	0.0	100.0	Read/Write
7	AV7_ZoneRhLowAlrm	Zone RH low alarm set pt	0.0	100.0	Read/Write
8	AV8_WaterTempSetPt	Freecool or dual cool set point	0.0	80.0	Read/Write
9	AV9_CO2SetPt	CO2 set point	500.0	2000.0	Read/Write
10	AV10_SplyTempHiAlrm	Supply temp high alarm set pt	0.0	150.0	Read/Write
11	AV11_SplyTempLowAlrm	Supply temp low alarm set pt	0.0	150.0	Read/Write
12	AV12_StaticPSetPt	Duct static pressure set pt	0.0	20.0	Read/Write
13	AV13_SplyFanMin	Supply fan minimum set pt	30.0	100.0	Read/Write
14	AV14_SplyFanDesign	Supply fan design set point	0.0	100.0	Read/Write
15	AV15_SplyFanDehum	Supply fan dehum set back	30.0	100.0	Read/Write
16	AV16_DamperMin	Damper minimum position	0.0	100.0	Read/Write
17	AV17_DamperMax	Damper max position for CO2	0.0	100.0	Read/Write
18	AV18_AseDbSetPt	ASE dry bulb set pt	0.0	80.0	Read/Write
19	AV19_AseMixSetPt	ASE mixed air set point	0.0	80.0	Read/Write

Analog Values (cont.)					
20	AV20_MZAvgHiAlrm	MultiZone Average High Alarm Setpoint	0.0	150.0	Read/Write
21	AV21_MZAvgLowAlrm	MultiZone Average low alarm setpoint	0.0	150.0	Read/Write
22	AV22_MZMaxHiAlrm	MultiZone Maximum high alarm setpoint	0.0	150.0	Read/Write
23	AV23_SplyFanSpeed	Speed of supply fan	0.0	100.0	Read/Write
32	AV32_HeadKp	Kp for head pressure PID loop	0.1	300.0	Read/Write
33	AV33_CO2Kp	Kp for CO2 PID loop	0.1	300.0	Read/Write
34	AV34_AseKp	Kp for ASE PID loop	0.1	300.0	Read/Write
35	AV35_DeHumKp	Kp for dehumidifier PID loop	0.1	300.0	Read/Write
36	AV36_HumKp	Kp for humidifier PID loop	0.1	300.0	Read/Write
37	AV37_SplyFanKp	Kp for supply fan PID loop	0.1	300.0	Read/Write
38	AV38_ClgKp	Kp for cooling PID loop	0.1	300.0	Read/Write
39	AV39_HtgKp	Kp for heating PID loop	0.1	300.0	Read/Write
40	AV40_HeadTd	Td for head pressure PID loop	0.0	360.0	Read/Write
41	AV41_CO2Td	Td for CO2 PID loop	0.0	360.0	Read/Write
42	AV42_AseTd	Td for ASE PID loop	0.0	360.0	Read/Write
43	AV43_DeHumTd	Td for dehumidifier PID loop	0.0	360.0	Read/Write
44	AV44_HumTd	Td for humidifier PID loop	0.0	360.0	Read/Write
45	AV45_SplyFanTd	Td for supply fan PID loop	0.0	360.0	Read/Write
46	AV46_ClgTd	Td for cooling PID loop	0.0	360.0	Read/Write
47	AV47_HtgTd	Td for heating PID loop	0.0	360.0	Read/Write
48	AV48_HeadTi	Ti for head pressure PID loop	0.0	360.0	Read/Write
49	AV49_CO2Ti	Ti for CO2 PID loop	0.0	360.0	Read/Write
50	AV50_AseTi	Ti for ASE PID loop	0.0	360.0	Read/Write
51	AV51_DeHumTi	Ti for dehumidifier PID loop	0.0	360.0	Read/Write
52	AV52_HumTi	Ti for humidifier PID loop	0.0	360.0	Read/Write
53	AV53_SplyFanTi	Ti for supply fan PID loop	0.0	360.0	Read/Write
54	AV54_ClgTi	Ti for cooling PID loop	0.0	360.0	Read/Write
55	AV55_HtgTi	Ti for heating PID loop	0.0	360.0	Read/Write
56	AV56_SplySetpMin	Minimum sensor input for reset schedule	40.0	70.0	Read/Write
57	AV57_SplySetpMax	Maximum sensor input for reset schedule	40.0	70.0	Read/Write
58	AV58_ResetTempMin	Minimum reset schedule temperature	50.0	90.0	Read/Write
59	AV59_ResetTempMax	Maximum reset schedule temperature	50.0	90.0	Read/Write

Digital Points					
BMS address	Name	Description	Min	Max	Read/Write
0	BV0_AhuEn	Unit HMI enable	0	1	Read/Write
1	BV1_EnCooling	Allow cooling operation	0	1	Read/Write
2	BV2_EnDehum	Allow dehumidification operation	0	1	Read/Write
3	BV3_EnHeating	Allow heating operation	0	1	Read/Write
4	BV4_EnHum	Allow humidification operation	0	1	Read/Write
5	BI5_AhuOn	Current unit status	0	1	Read Only
6	BV6_BMSOff	BMS point to enable/disable unit operation	0	1	Read/Write
7	BI7_NetOff	Unit disabled by multi-unit sequencing	0	1	Read Only
8	BV8_AlarmReset	Reset all active alarms	0	1	Read/Write
9	BI9_AlarmShutdown	Unit disabled by active alarms	0	1	Read Only
10	BI10_AirProving	Air proving alarm	0	1	Read Only
11	BI11_DirtyFilter	Dirty filter alarm	0	1	Read Only
12	BI12_LifeSafety	Life safety alarm	0	1	Read Only
13	BI13_Condensate	Condensate overflow alarm	0	1	Read Only
14	BI14_Freezestat	Freezestat alarm	0	1	Read Only
15	BI15_WaterProving	Water proving alarm	0	1	Read Only
16	BI16_GlobalAlarm	Global alarm status	0	1	Read Only
17	BI17_Ckt1LowPress	Circuit 1 low refrigerant pressure alarm	0	1	Read Only
18	BI18_Ckt1HiPress	Circuit 1 high refrigerant pressure alarm	0	1	Read Only
19	BI19_Ckt2LowPress	Circuit 2 low refrigerant pressure alarm	0	1	Read Only

Digital Points (cont.)					
20	BI20_Ckt2HiPress	Circuit 2 high refrigerant pressure alarm	0	1	Read Only
21	BI21_HiZoneTemp	High zone temp alarm	0	1	Read Only
22	BI22_LowZoneTemp	Low zone temp alarm	0	1	Read Only
23	BI23_HiZoneRh	High zone RH alarm	0	1	Read Only
24	BI24_LowZoneRh	Low zone RH alarm	0	1	Read Only
25	BI25_HiSplyTemp	High supply temp alarm	0	1	Read Only
26	BI26_LowSplyTemp	Low supply temp alarm	0	1	Read Only
27	BI27_HiZoneCo2	High zone CO2	0	1	Read Only
28	BI28_Ckt1Comp1	Circuit 1 compressor 1 output	0	1	Read Only
29	BI29_Ckt1Comp2	Circuit 1 compressor 2 output	0	1	Read Only
30	BI30_Ckt2Comp1	Circuit 2 compressor 1	0	1	Read Only
31	BI31_Ckt2Comp2	Circuit 2 compressor 2 output	0	1	Read Only
32	BI32_ClgVlv	Cooling Valve output	0	1	Read Only
33	BI33_Condenser	Condenser output	0	1	Read Only
34	BI34_Heater1	Heater 1 output	0	1	Read Only
35	BI35_Heater2	Heater 2 output	0	1	Read Only
36	BI36_HotGasReheat	Hot gas reheat output	0	1	Read Only
37	BI37_Humidifier	Humidifier output	0	1	Read Only
38	BI38_PumpEnable	Pump enable output	0	1	Read Only
39	BI39_SplyFan	Supply fan output	0	1	Read Only
40	BI40_Damper	Damper output	0	1	Read Only
41	BI41_PwrSrc1	Power source 1 status	0	1	Read Only
42	BI42_PwrSrc2	Power source 2 status	0	1	Read Only
43	BI43_Ckt1HeadFail	Circuit 1 Head Pressure Fail	0	1	Read Only
44	BI44_Ckt2HeadFail	Circuit 2 Head Pressure Fail	0	1	Read Only
45	BI45_DuctStaticFail	Duct Static Pressure Fail	0	1	Read Only
46	BI46_RetHumFail	Return Humidity Fail	0	1	Read Only
47	BI47_RetTempFail	Return Temperature Fail	0	1	Read Only
48	BI48_OaRHFail	Outside Air Relative Humidity Fail	0	1	Read Only
49	BI49_OaTempFail	Outside Air Temperature Fail	0	1	Read Only
50	BI50_SplyTempFail	Supply Temperature Fail	0	1	Read Only
51	BI51_H2OTempFail	Water Temperature Fail	0	1	Read Only
52	BI52_ZoneCO2Fail	Zone CO2 Fail	0	1	Read Only
53	BI53_ZoneRHFail	Zone Relative Humidity Fail	0	1	Read Only
54	BI54_ZoneTempFail	Zone Temperature Fail	0	1	Read Only
55	BI55_VlvFeedbackFail	Valve Feedback Fail	0	1	Read Only
56	BI56_MultiZone1Fail	MultiZone 1 Fail	0	1	Read Only
57	BI57_MultiZone2Fail	MultiZone 2 Fail	0	1	Read Only
58	BI58_MultiZone3Fail	MultiZone 3 Fail	0	1	Read Only
59	BI59_HiMultiZoneAvg	High MultiZone Average	0	1	Read Only
60	BI60_LowMultiZoneAvg	Low MultiZone Average	0	1	Read Only
61	BI61_HiMultiZoneMax	High MultiZone Max	0	1	Read Only
62	BI62_HiReturnTemp	High Return Temp	0	1	Read Only
63	BI63_LowReturnTemp	Low Return Temp	0	1	Read Only
64	BI64_HiReturnRh	High Return Humidity	0	1	Read Only
65	BI65_LowReturnRh	Low Return Humidity	0	1	Read Only
66	BI66_HiStaticp	High Duct static pressure	0	1	Read Only