

AboveAir Technologies Standard BACnet Points List

Analog variables

BMS Address	Variable name	Description	Min	Max	Read/Write
1	CoolValve_AnalogOut	Analog Output to Cooling Valve	-999.9	999.9	R
2	Comp1_AnalogOut	Analog Output to Compressor 1	-999.9	999.9	R/W
3	Comp2_AnalogOut	Analog Output to Compressor 2	-999.9	999.9	R/W
4	Condenser_AnalogOut	Analog Output to Condenser Fan	-999.9	999.9	R
5	CondValve_AnalogOut	Analog Output to Condenser Valve	-999.9	999.9	R
6	Economizer_AnalogOut	Analog output to Economizer Damper	-999.9	999.9	R
7	Fan_AnalogOut	Analog Output to Supply Air Fan	-999.9	999.9	R
8	Freecool_AnalogOut	Analog Output to Freecooling Valve	-999.9	999.9	R
9	Heater1_AnalogOut	Analog Output to Heater 1	-999.9	999.9	R
10	HgRht_AnalogOut	Analog Output to Hot Gas Reheat Valve	-999.9	999.9	R
11	Humidifier_AnalogOut	Analog Output to Humidifier	-999.9	999.9	R
12	Preheat_AnalogOut	Analog Output to Preheater	-999.9	999.9	R
14	Cooling_P	Proportional term for cooling SAT PID control	0	3276.7	R/W
15	CO2_P	Proportional term for CO2 damper PID control	0	3276.7	R/W
16	Economizer_P	Proportional term for economizer PID control	0	3276.7	R/W
17	TempReset_SetP	Temp Reset Set Point VAV Reset Temp	32.0	100.0	R/W
18	Fan_P	Proportional term for supply fan PID control	0	3276.7	R/W
20	Freecool_P	Proportional term for freecool valve PID control	0	3276.7	R/W
21	Reheat_P	Proportional term for reheat SAT PID control	0	3276.7	R/W
22	HeadP_P	Proportional term for refrigerant head pressure PID control	0	3276.7	R/W
24	HeatPump_P	Proportional term for heat pump SAT PID control	0	3276.7	R/W
26	Heating_P	Proportional term for heating SAT PID control	0	3276.7	R/W
28	Humidifier_P	Proportional term for humidifier SAT PID control	0	3276.7	R/W
30	Preheat_P	Proportional term for preheat PID control	0	3276.7	R/W
31	CO2_SetPoint	Damper CO2 point	0	2000.0	R/W
33	SuctionP_P	Proportional term for refrigerant suction pressure PID control	0	3276.7	R/W
34	Temp_SetP	Temp Set Point (Single Set Point)	32.0	100.0	R/W
35	SAT_SetPoint	Current supply air temperature requirement (calculated set point - not adjustable)	-3276.8	3276.7	R
36	Cool_SetPoint	Set point for cooling operation (Dual Set Points)	50.0	95.0	R
37	High_SAT_Reset	High supply air reset value (VAV system with reset)	-999.9	999.9	R/W
43	Fan_SetPoint	Set point for fan operation (% of 0-10V signal, ppm CO2, or "wg static pressure)	0	2500.0	R/W
44	Freecool_SetPoint	Condenser water temp where freecooling is available	0	65.0	R/W
45	HeadPressure_SetPoint	Set point (psig) for head pressure control	250.0	600.0	R/W
46	Humidify_SetPoint	Humidify Set Point (for humidifier operation)	35.0	75.0	R/W
47	Heat_SetPoint	Heat Set Point (Dual Set Points)	50.0	95.0	R
49	Low_SAT_Reset	Low Temp - High SAT	0	100.0	R/W
51	Unocc_DeH_SetPoint	Unoccupied Heating Set Point	0	99.9	R/W
52	Unocc_Hum_SetPoint	Unoccupied Cooling Set Point	0	99.9	R/W
53	HumidityAlarm_HighSetPt	Humidity High Alarm Set Point	0	100.0	R/W
54	TempAlarm_HighSetPt	Temperature High Alarm Set Point	0	100.0	R/W
55	Dehumidify_SetPoint	Set point for dehumidification (Dual Set Points)	30.0	75.0	R/W
56	HumidityAlarm_LowSetPt	Humidity Low Alarm Set Point	0	100.0	R/W
57	TempAlarm_LowSetPt	Temperature Low Alarm Set Point	0	100.0	R/W
58	Hum_SetP	Humidity Set Point (Single Set Point)	32.0	100.0	R/W
59	SuctionPressure_SetPoint	Set point (psig) for suction pressure control	90.0	160.0	R/W
60	Unocc_Cool_SetPoint	Unoccupied Cooling Set Point	0	99.9	R/W
61	Unocc_Heat_SetPoint	Unoccupied Heating Set Point	0	99.9	R/W
62	CO2_Value	Measured CO2 reading (ppm)	-3276.8	3276.7	R
63	HeadP1_Value	Measured circuit 1 liquid line pressure (psig)	-3276.8	3276.7	R
64	HeadP2_Value	Measured circuit 2 liquid line pressure (psig)	-3276.8	3276.7	R
65	MixedH_Value	Measured mixed air relative humidity (%RH)	-3276.8	3276.7	R
66	MixedT_Value	Measured mixed air temperature (deg F or deg C)	-3276.8	3276.7	R
68	OAH_Value	Measured outside air temperature (deg F or deg C)	-3276.8	3276.7	R
69	OAT_Value	Measured outside air temperature (deg F or deg C)	-3276.8	3276.7	R
70	SpaceT_Value	Measured space temperature (deg F or deg C)	-3276.8	3276.7	R
71	SuctionP1_Value	Measured circuit 1 suction line pressure (psig)	-3276.8	3276.7	R
72	SuctionP2_Value	Measured circuit 2 suction line pressure (psig)	-3276.8	3276.7	R
73	SupplyH_Value	Measured supply air relative humidity (%RH)	-3276.8	3276.7	R
74	SupplyT_Value	Measure supply air temperature (deg F or deg C)	-3276.8	3276.7	R
75	StaticP_Value	Measured static pressure (in wg)	-3276.8	3276.7	R
76	CondWaterT_Value	Condenser Water Temperature	-3276.8	3276.7	R
77	SpaceH_Value	Measured space relative humidity (%RH)	-3276.8	3276.7	R

Integer variables

BMS Address	Variable name	Description	Min	Max	Direction
1	Cooling_D	Derivative term for cooling PID control	0	999	R/W
2	Cooling_I	Integral term for cooling PID control	0	999	R/W
4	Economizer_D	Derivative term for economizer PID control	0	999	R/W
5	Economizer_I	Integral term for economizer PID control	0	999	R/W
7	Fan_D	Derivative term for supply fan PID control	0	999	R/W
8	Fan_I	Integral term for supply fan PID control	0	999	R/W
13	HeadP_D	Derivative term for refrigerant head pressure PID control	0	999	R/W
14	HeadP_I	Integral term for refrigerant head pressure PID control	0	999	R/W
16	HeatPump_D	Derivative term for heat pump PID control	0	999	R/W
17	HeatPump_I	Integral term for heat pump PID control	0	999	R/W
19	Heating_D	Derivative term for heating PID control	0	999	R/W
20	Heating_I	Integral term for heating PID control	0	999	R/W
22	Humidifier_D	Derivative term for humidifier PID control	0	999	R/W
23	Humidifier_I	Integral term for humidifier PID control	0	999	R/W
25	Preheat_D	Derivative term for preheat PID control	-32768	32767	R/W
26	Preheat_I	Integral term for preheat PID control	-32768	32767	R/W
28	SuctionP_D	Derivative term for refrigerant suction pressure PID control	-32768	32767	R/W
29	SuctionP_I	Integral term for refrigerant suction pressure PID control	-32768	32767	R/W
31	AirflowAlarm_Delay	Delay before airflow alarm is active	10	360	R/W
32	Min_Off_Bw_T	Minimum off time between starts of multiple compressor stages	60	360	R/W
33	Min_Off_T	Minimum compressor off time	60	600	R/W
34	Min_On_T	Minimum compressor on time	60	600	R/W
35	CondValveMod_Delay	Delay before condenser water valve begins modulating	0	999	R/W
36	CondValveComp_Delay	Delay between condenser water valve call and compressor activation	0	999	R/W
37	Condenser_Delay	Delay between condenser initiation and compressor activation	0	999	R/W
38	Pump_Delay	Delay between pump initiation and compressor activation	-32768	32767	R/W
39	EvapDamper_Delay	Delay for damper opening	10	360	R/W
40	Freezestat_Delay	Delay before freezestat shuts system down	0	600	R/W
41	Heat_Purge_t	Heat Purge Time	10	180	R/W
42	HeatStage_Delay	Delay between heat stages	5	999	R/W
43	LowPressAlarmDelay_t	Delay after compressor start before low refrigerant pressure alarm	30	600	R/W
44	Economizer_CompDelay	Delay for mechanical cooling	0	600	R/W
45	CO2_I	Integral term for CO2 damper PID control	0	999	R/W
46	CO2_D	Differential term for CO2 damper PID Control	0	999	R/W
48	Reheat_I	Integral term for reheat SAT PID control	-32768	32767	R/W
49	Reheat_D	Derivative term for heating PID loop	-32768	32767	R/W

Digital variables

BMS Address	Variable name	Description	Min	Max	Direction
1	mAirflowAlarm_On	Airflow alarm is active	0	1	R
2	mC1HighPress_On	Compressor 1 high pressure alarm is active	0	1	R
3	mC1LowPress_On	Compressor 1 low pressure alarm is active	0	1	R
4	mC2HighPress_On	Compressor 2 high pressure alarm is active	0	1	R
5	mC2LowPress_On	Compressor 2 low pressure alarm is active	0	1	R
6	mCondensateAlarm_On	High condensate alarm	0	1	R
7	mDirtyFilterAlarm_On	Dirty filter alarm on	0	1	R
8	mFreezestat_On	Freezestat alarm active	0	1	R
9	GLOBAL_ALARM	Global (general) alarm	0	1	R
10	mHighCO2Alarm	High CO2 alarm	0	1	R
13	mHighHumAlarm	High humidity alarm	0	1	R
14	mHighTempAlarm	High temperature alarm	0	1	R
17	mLifeSafetyAlarm_On	Fire and/or smoke alarm active	0	1	R
20	mLowHumAlarm	Low humidity alarm	0	1	R
21	mLowTempAlarm	Low temperature alarm	0	1	R
22	mCO2_Alarm	CO2 sensor failure alarm	0	1	R
23	mCondWaterT_Alarm	Condenser water temperature sensor failure	0	1	R
24	mLiquidP1_Alarm	Circuit 1 head pressure sensor failure	0	1	R
25	mLiquidP2_Alarm	Circuit 2 head pressure sensor failure	0	1	R
27	mMixedH_Alarm	Mixed air humidity sensor failure	0	1	R
28	mMixedT_Alarm	Mixed air temperature sensor failure	0	1	R
29	mOAH_Alarm	Outdoor air humidity sensor failure	0	1	R
30	mOAT_Alarm	Outdoor air temperature sensor failure	0	1	R
32	mSpaceH_Alarm	Space humidity sensor failure	0	1	R
33	mSpaceT_Alarm	Space temperature sensor failure	0	1	R
34	mSuctionP1_Alarm	Circuit 1 suction pressure sensor failure	0	1	R

BMS Address	Variable name	Description	Min	Max	Direction
35	mSuctionP2_Alarm	Circuit 2 suction pressure sensor failure	0	1	R
36	mSupplyH_Alarm	Supply humidity sensor failure	0	1	R
37	mSupplyT_Alarm	Supply temperature sensor failure	0	1	R
38	CoolValve_En	Chilled Water Valve Enable 0 = Off, 1 = Auto	0	1	R/W
39	Comp1_En	Compressor 1 Enable 0 = Off, 1 = Auto	0	1	R/W
40	Comp2_En	Compressor 2 Enable 0 = Off, 1 = Auto	0	1	R/W
41	Condenser_En	Condenser Enable 0 = Off, 1 = Auto	0	1	R/W
42	CondValve_En	Condenser Valve Enable 0 = Off, 1 = Auto	0	1	R/W
43	Economizer_En	Airside Economizer Enable 0 = Off, 1 = Auto	0	1	R/W
44	FanOut_En	Aux Fan output 0 = Off, 1 = Auto	0	1	R/W
45	Freecool_En	Water Side Economizer Enable 0 = Off, 1 = Auto	0	1	R/W
46	Heater1_En	Heater 1 Enable 0 = Off, 1 = Auto	0	1	R/W
47	Heater2_En	Heater 2 Enable 0 = Off, 1 = Auto	0	1	R/W
50	HgRht_En	Hot Gas Reheat 0 = Off, 1 = Auto	0	1	R/W
51	Defrost_On	Unit is in defrost cycle	0	1	R/W
52	Humidifier_En	Humidifier Enable 0 = Off, 1 = Auto	0	1	R/W
53	EvapDamper_En	Damper Enable 0 = Off, 1 = Auto	0	1	R/W
54	Preheat_En	Preheat Enable 0 = Off, 1 = Auto	0	1	R/W
55	Pump_En	Pump Enable 0 = Off, 1 = Auto	0	1	R/W
56	System_En	System Enable 0 = Off, 1 = Auto	0	1	R/W
57	AlarmRelay1_On	1 = On, 0 = Off	0	1	R/W
58	FanOut_On	1 = On, 0 = Off	0	1	R/W
59	CoolValve_On	1 = On, 0 = Off	0	1	R/W
60	Comp1_On	1 = On, 0 = Off	0	1	R/W
61	Comp2_On	1 = On, 0 = Off	0	1	R/W
62	Condenser_On	1 = On, 0 = Off	0	1	R
63	CondValve_On	1 = On, 0 = Off	0	1	R
64	Economizer_On	1 = On, 0 = Off	0	1	R
65	Fan_On	1 = On, 0 = Off	0	1	R
66	Freecool_On	1 = On, 0 = Off	0	1	R
67	Heater1_On	1 = On, 0 = Off	0	1	R
68	Heater2_On	1 = On, 0 = Off	0	1	R
71	HgRht_On	1 = On, 0 = Off	0	1	R
72	HPRevValve_On	1 = On, 0 = Off	0	1	R
73	Humidifier_On	1 = On, 0 = Off	0	1	R
74	EvapDamper_On	1 = On, 0 = Off	0	1	R
75	Preheat_On	1 = On, 0 = Off	0	1	R/W
76	Pump_On	1 = On, 0 = Off	0	1	R
77	CompressorLockout_On	1 = On, 0 = Off	0	1	R
78	CondenserDelay_On	1 = On, 0 = Off	0	1	R
79	CondValveDelay_On	1 = On, 0 = Off	0	1	R/W
80	CoolMode	Unit is in Cool Mode	0	1	R/W
81	CondenserES_Okay	Optional cond fan end switch closed	0	1	R
82	CondValveES_Okay	Optional condenser valve end switch closed	0	1	R/W
83	EvapDamperES_Okay	Optional damper end switch closed	0	1	R
84	DehumidifyMode	Unit is in dehumidify mode	0	1	R
85	Fan_Delay_On	Fan start delay	0	1	R
86	HeatMode	Unit is in heat mode	0	1	R
87	HumidifyMode	Unit is in humidify mode	0	1	R
88	PumpDelay_On	Comp Start Delay	0	1	R
89	PumpStatus_Okay	Pump Status Signal Active	0	1	R
90	ReheatMode	Unit is in reheat mode	0	1	R
91	RemoteStopStart_On	Digital Input On	0	1	R
92	System_On	System 0 = Off, 1 = On	0	1	R
93	Unoccupied_Setback_On	1 = On, 0 = Off	0	1	R
102	RESET_ALARMS	Request to reset/clear alarm memories	0	1	R/W
103	RESET_BUZZER	Request to switch off the buzzer	0	1	R/W
104	Off_by_Superv	1 = shut down unit via BMS	0	1	R/W