

## SmartCool V7.30 BMS Points



Analogue Variables						
BMS Address	Modbus Address	BacNet Address	Variable name	Description	Units	Read/Write
3	3	3	Volt_Step_Change_Evap	Rate of change for voltage step on inverter compressor (Evap Temp)	---	R/W
19	19	19	Ambient_Air_Hum_Absolute	Ambient air humidity - absolute value	---	R
20	20	20	Mixed_Air_Hum_Absolute	Mixed air humidity - absolute value	---	R
21	21	21	Return_Hum_Relative	Return air humidity - relative value	---	R
22	22	22	Liquid_Press_C1_msk	liquid pressure circuit 1	---	R
23	23	23	Return_Air_Temp_msk	return air temperature	---	R
24	24	24	Supply_Air_Temp_msk	supply air temperature	---	R
25	25	25	Dis_Temp_C1	discharge temperature circuit 1	---	R
26	26	26	Liquid_Press_C2_msk	liquid pressure circuit 2	---	R
27	27	27	Supply_Water_Temp_msk	supply water temperature	°C	R
28	28	28	Sel_Set_Temp_msk	temperature setpoint	°C/°F	R/W
29	29	29	Sel_Set_Humid	humidity setpoint	---	R/W
30	30	30	SET_COND	condensing pressure setpoint	---	R
31	31	31	DC_Setpoint_msk	dry cooler head pressure setpoint	°C/°F	R/W
32	32	32	Suction_Temp_A1	driver 1 suction temperature	---	R
33	33	33	Evaporation_Press_A1_msk	evaporation pressure valve A	---	R
34	34	34	Superheat_A1	superheat valve A	---	R
35	35	35	Evaporation_Temp_A1_msk	evaporation temperature valve A	---	R
36	36	36	Suction_Temp_A_2	suction temperature valve A2	---	R
37	37	37	Evaporation_Press_A_2_msk	evaporation pressure valve A2	---	R
38	38	38	Superheat_A_2	superheat valve A2	---	R
39	39	39	Evaporation_Temp_A_2_msk	evaporation temperature valve A2	---	R
40	40	40	Volts_L1_N	readings from power meter: phase voltage L1-N	---	R
41	41	41	Volts_L2_N	readings from power meter: phase voltage L2-N	---	R
42	42	42	Volts_L3_N	readings from power meter: phase voltage L3-N	---	R
43	43	43	Volts_L1_L2	readings from power meter: line voltage L1-L2	---	R
44	44	44	Volts_L2_L3	readings from power meter: line voltage L2-L3	---	R
45	45	45	Volts_L3_L1	readings from power meter: line voltage L3-L1	---	R
46	46	46	Amps_L1	readings from power meter: phase 1 amperage	---	R
47	47	47	Amps_L2	readings from power meter: phase 2 amperage	---	R
48	48	48	Amps_L3	readings from power meter: phase 3 amperage	---	R
49	49	49	True_Power	readings from power meter: true power	---	R
50	50	50	Total_kWh_LW	readings from power meter: total kWh low component	---	R
51	51	51	Ambient_Air_Hum_rH	Ambient air humidity	---	R
52	52	52	Power_Factor	readings from power meter: power factor	---	R
53	53	53	Frequency	readings from power meter: frequency	---	R
54	54	54	Air_Sec	air flow per second	---	R
55	55	55	CW_Valve_C1	chilled water valve circuit 1 - 0-100.0	---	R
56	56	56	CW_Valve_C2	chilled water valve circuit 2	---	R
57	57	57	HPC_C1_Fan	condenser fan speed circuit 1	---	R
58	58	58	HPC_C2_Fan	condenser fan speed circuit 2	---	R
59	59	59	Fan_Speed	evaporator fan speed	---	R
60	60	60	Dry_Fans_OP_C1	dry cooler fan speed circuit 1	---	R

61	61	61	Dry_Fans_OP_C2	dry cooler fan speed circuit 2	---	R
62	62	62	FC_FAN_DIS	freecooling fan speed	---	R
63	63	63	Dis_Temp_C2	discharge temperature circuit 2	---	R
64	64	64	Cond_Temperature_D1_msk	condensing temperature circuit 1	---	R
65	65	65	Cond_Temperature_D2_msk	condensing temperature circuit 2	---	R
66	66	66	Frost_Protect_Temp_C2	frost protection temperature - Circuit 2	---	R
67	67	67	Inlet_CW_Temp_msk	chilled water inlet temperature	---	R
68	68	68	Frost_Protect_Temp_C1	frost protection temperature - Circuit 1	°C	R
69	69	69	Amb_Temp	ambient temperature	---	R
70	70	70	CW_DEMAND_DC	dual cool chilled water demand	---	R
71	71	71	Value_B1	analogue input 1	---	R
72	72	72	Value_B2	analogue input 2	---	R
73	73	73	Value_B3	analogue input 3	---	R
74	74	74	Value_B4	analogue input 4	---	R
75	75	75	Value_B5	analogue input 5	---	R
76	76	76	Value_B6	analogue input 6	---	R
77	77	77	Value_B7	analogue input 7	---	R
78	78	78	Value_B8	analogue input 8	---	R
79	79	79	Value_B9	analogue input 9	---	R
80	80	80	BMS_Anal_Synchro_Point	test variable	---	R
81	81	81	Aout_1	analogue output 1	---	R
82	82	82	Aout_2	analogue output 2	---	R
83	83	83	Aout_3	analogue output 3	---	R
84	84	84	Aout_4	analogue output 4	---	R
85	85	85	Aout_5	analogue output 5	---	R
86	86	86	Aout_6	analogue output 6	---	R
87	87	87	FC_Valve_OP	freecooling valve current position	---	R
88	88	88	Freecool_Demand	freecooling demand	---	R
89	89	89	Discharge_Temp_EVD1_C1	Discharge temperature circuit 1 from EVD1 S4	---	R
91	91	91	Subcool_CT2_msk	Subcool calculated from converted liquid pressure - liquid temp - C2	---	R
92	92	92	Inv_Frequency_C1	inverter frequency circuit 1	---	R
93	93	93	Control_Temp_msk	Regulation control temperature	°C/°F	R
94	94	94	Inv_Frequency_C2	inverter frequency circuit 2	---	R
95	95	95	Control_Return_Hum	Regulation control humidity	%	R
96	96	96	Value_B10	analogue input 10	°C	R
97	97	97	SET_TEMP_msk	actual temperature setpoint	---	R
98	98	98	Set_Temp1_msk	temperature setpoint Z1	°C/°F	R/W
99	99	99	Set_Temp2_msk	temperature setpoint Z2	°C/°F	R/W
100	100	100	Set_Temp3_msk	temperature setpoint Z3	°C/°F	R/W
101	101	101	Set_Temp4_msk	temperature setpoint Z4	°C/°F	R/W
102	102	102	Set_Humid1	humidity setpoint Z1	---	R/W
103	103	103	Set_Humid2	humidity setpoint Z2	---	R/W
104	104	104	Set_Humid3	humidity setpoint Z3	---	R/W
105	105	105	Set_Humid4	humidity setpoint Z4	---	R/W
106	106	106	SET_COND1_msk	condenser setpoint C1 Z1	°C/°F	R/W
107	107	107	SET_COND2_msk	condenser setpoint C1 Z2	°C/°F	R/W
108	108	108	SET_COND3_msk	condenser setpoint C1 Z3	°C/°F	R/W
109	109	109	SET_COND4_msk	condenser setpoint C1 Z4	°C/°F	R/W
110	110	110	Sel_Set_Cool_msk	temp bias cooling setpoint	°C/°F	R/W
111	111	111	Sel_Set_Heat_msk	temp bias heating setpoint	°C/°F	R/W
112	112	112	SET_COND1_C2_msk	condenser setpoint C2 Z1	°C/°F	R/W

113	113	113	SET_COND2_C2_msk	condenser setpoint C2 Z2	°C/°F	R/W
114	114	114	SET_COND3_C2_msk	condenser setpoint C2 Z3	°C/°F	R/W
115	115	115	SET_COND4_C2_msk		°C/°F	R/W
116	116	116	Supply_Wtr_Temp_Inlet_Vortex_msk	supply water temperature	°C	R
117	117	117	CPY1_Current	CPY1 current output	A	R
118	118	118	CPY2_Current	CPY2 current output	A	R
119	119	119	CPY1_Steam_Production	CPY1 steam production Kg/h	Kg/h	R
120	120	120	CPY2_Steam_Production	CPY2 steam production Kg/h	Kg/h	R
121	121	121	Dehum_Valve_Control	SV unit dehum valve control	---	R
122	122	122	SV_Dehum_Valve_Position	SV unit dehum valve position feedback	---	R
123	123	123	Evap_Temp_One_Comp_Limit		---	R/W
124	124	124	Evap_Temp_two_Comp_Limit		---	R/W
125	125	125	Fan_Offset_Speed		---	R/W
126	126	126	Main_Fan_Speed_1	Main Fan speed 1	---	R/W
127	127	127	Main_Fan_Speed_2	Main Fan speed 2	---	R/W
128	128	128	Main_Fan_Speed_3	Main Fan speed 3	---	R/W
129	129	129	td_threshold		---	R/W
130	130	130	unit_td		---	R
131	131	131	PROP_TEMP		---	R
132	132	132	Mixed_Air_Temp	Mixed air Temperature	---	R
133	133	133	Mixed_Air_Humidity_rH	Mixed air Humidity	---	R
134	134	134	S1_Probe_Value1	S1 probe value	---	R
135	135	135	S2_Probe_Value1	S2 probe value	---	R
136	136	136	S3_Probe_Value_1	S3 probe value	---	R
137	137	137	S4_Probe_Value1	S4 probe value	---	R
138	138	138	FC_Control_Temp		---	R
139	139	139	Gas_Extract_FC_Damper_Position		%	R/W
217	217	217	Demand_OFF_Level	Power demand off level	%	R
330	330	330	A10_SH_SH_msk	Superheat	---	R/W

Integer Variables						
BMS Address	Modbus Address	BacNet Address	Variable name	Description	Units	Read/Write
1	208	1001	CURRENT_HOUR	Current hour	h	R
2	209	1002	NEW_HOUR	New hour	h	R/W
3	210	1003	Act_Application_Type	EM24 Actual Application Type	---	R
4	211	1004	CURRENT_MINUTE	Current minute	---	R
5	212	1005	NEW_MINUTE	New minute	---	R/W
6	213	1006	Act_Measuring_System	EM24 Actual Measuring System	---	R
7	214	1007	CURRENT_DAY	Current day	---	R
8	215	1008	NEW_DAY	New day	---	R/W
9	216	1009	Address_Drv1	EVO Driver 1 address	---	R
10	217	1010	CURRENT_MONTH	Current month	---	R
11	218	1011	NEW_MONTH	New month	---	R/W
12	219	1012	Address_Drv2	EVO Driver 2 address	---	R
13	220	1013	CURRENT_YEAR	Current year	---	R
14	221	1014	NEW_YEAR	New year	---	R/W
15	222	1015	Air_flow_input	Air flow input	---	R
16	223	1016	BMS_Heartbeat	BMS heartbeat signal	---	R/W
17	224	1017	NEW_WEEKDAY	New weekday	W	R/W
18	225	1018	FreshAir_Damper	Fresh air damper	---	R
19	226	1019	ReturnAir_Damper	Return air damper	---	R

20	227	1020	ReturnAir_Damper_m		---	R
21	228	1021	Unit_Status	0 = Unit On; 1 = Off By Alarms; 2 = Off By Supervisor; 3 = Off By Time; 4 = Off By Dig Input; 5 = Off By Display; 6 = Humidifier status (0 = not active (no request, shutdown or disabled); 1 = start evaporation cycle; 2 = water fill in	---	R
22	229	1022	I46_HumState		---	R/W
23	230	1023	I49_Conductivity	Actual value of conductivity	---	R/W
24	231	1024	Diff_Pressure_msk	differential pressure (air)	---	R
25	232	1025	High_Flow_msk	air flow - high component	---	R
26	233	1026	Low_Flow_msk	air flow - low component	---	R
27	234	1027	LP_AI_Start_Delay_SV		---	R/W
28	235	1028	Cooling_Stages	Number of DX cooling stages	---	R
29	236	1029	Heating_type	heating configuration type	---	R
30	237	1030	Num_Heaters	number of heating banks	---	R
31	238	1031	X_H_Value_CP1_C1	compressor 1 circuit 1 run hours high	---	R
32	239	1032	X_L_Value_CP1_C1	compressor 1 circuit 1 run hours low	---	R
33	240	1033	X_H_Value_CP2_C1	compressor 2 circuit 1 run hours high	---	R
34	241	1034	X_L_Value_CP2_C1	compressor 2 circuit 1 run hours low	---	R
35	242	1035	X_H_Value_INV_C1	circuit 1 inverter run hours high	---	R
36	243	1036	X_L_Value_INV_C1	circuit 1 inverter run hours low	---	R
37	244	1037	X_H_Value_CP1_C2	compressor 1 circuit 2 run hours high	---	R
38	245	1038	X_L_Value_CP1_C2	compressor 1 circuit 2 run hours low	---	R
39	246	1039	X_H_Value_CP2_C2	compressor 2 circuit 2 run hours high	---	R
40	247	1040	X_H_Value_INV_C2	circuit 2 inverter run hours high	---	R
41	248	1041	X_L_Value_INV_C2	circuit 2 inverter run hours low	---	R
42	249	1042	X_H_Value_Supply_Fan	supply fan run hours high	---	R
43	250	1043	X_L_Value_Supply_Fan	supply fan run hours low	---	R
44	251	1044	X_H_Value_Filter	filter run hours high	---	R
45	252	1045	X_L_Value_Filter	filter run hours low	---	R
46	253	1046	Stages_Required	number of DX cooling stages required	---	R
47	254	1047	C1_Type	circuit 1 configuration - {X;W;C;1;2;}	---	R
48	255	1048	C1_Comp_Type	circuit 1 compressor type - {0;1;2;V;L;H;X;A;W;D}	---	R
49	256	1049	C2_Type	circuit 2 configuration - {0;X;W;F;C;1;2;}	---	R
50	257	1050	C2_Comp_Type	circuit 2 compressor type - {0;1;2;V;L;H;C;F;}	---	R
51	258	1051	Cooling_Limit	cooling limit	---	R
52	259	1052	Airflow_Set_H_msk	airflow setpoint high	---	R
53	260	1053	Airflow_Set_L_msk	airflow setpoint low	---	R
54	261	1054	HP_Valve_OP_C1	dry cooler valve head pressure output c1	---	R
55	262	1055	HP_Valve_OP_C2	dry cooler valve head pressure output c2	---	R
56	263	1056	Thyristor_DEMAND	thyristor heating demand	---	R
57	264	1057	LPHW_Valve	low pressure hot water valve position	---	R
58	265	1058	EVO_LP_Alarm_Start_Delay_SV		---	R/W
60	267	1060	Suct_Val	Suction pressure (absolute)	kPa	R
61	268	1061	Disch_Val	Discharge pressure (absolute)	kPa	R
65	272	1065	X_L_Value_CP2_C2	compressor 2 circuit 2 run hours low	---	R
66	273	1066	Cont_Void_Press_msk	Constant Pressure - Void Pressure	---	R
67	274	1067	Total_kWh_HW	readings from power meter: total kWh high component	---	R/W
68	275	1068	Point_Conversion_WPX	Calculated working point position	---	R
69	276	1069	Point_Conversion_WPY	Calculated working point position	---	R
70	277	1070	Room_Pressure		---	R
71	278	1071	Bios_Month_msk		---	R/W
72	279	1072	Bios_Day_msk		---	R/W
73	280	1073	Boot_Month_msk		---	R/W
76	283	1076	Con_Pressure_U1		---	R/W

78	285	1078	Oil_Alarm_Countdown_Delay		---	R/W
79	286	1079	Oil_Critical_Alarm_Delay		---	R/W
80	287	1080	BMS_Int_Synchro_Point	test variable	---	R
81	288	1081	Smartcool_Name	SmartCool name - {SC;SL;SN;SR;SD;SV;}	---	R
82	289	1082	X_H_Value_Humidifier	Humidifier running hours - high value output	---	R
83	290	1083	X_L_Value_Humidifier	Humidifier running hours - low value output	---	R
84	291	1084	X_H_Value_Heat	heating run hours high	---	R
85	292	1085	X_L_Value_Heat	heating run hours low	---	R
86	293	1086	CP_Start_Counter_C1_lo		---	R
87	294	1087	X_L_Value_FreeC	freecooling run hours low	---	R
88	295	1088	X_H_Value_FreeC	freecooling run hours high	---	R
89	296	1089	X_L_Value_CWValve1	cw valve c1 run hours low	---	R
90	297	1090	X_H_Value_CWValve1	cw valve c1 run hours high	---	R
91	298	1091	X_L_Value_CWValve2	cw valve c2 run hours low	---	R
92	299	1092	X_H_Value_CWValve2	cw valve c2 run hours high	---	R
93	300	1093	X_L_Value_Dehum	dehum run hours low	---	R
94	301	1094	X_H_Value_Dehum	dehum run hours high	---	R
95	302	1095	Supply_Water_Temp_C2_msk	supply water temperature c2	°C	R
96	303	1096	PLAN_ADDRESS	Address of the controller in the pLAN network	---	R
97	304	1097	CP_Start_Counter_C2_x1000		---	R
98	305	1098	CP_Start_Counter_C2_lo		---	R
99	306	1099	CP_Start_Counter_C1_x1000		---	R
100	307	1100	Damper_Delay_Off		---	R/W
101	308	1101	C1_Inv_Max_Speed_Both_On		---	R/W
102	309	1102	BIOS_DATE	Indicates the date of the BIOS	---	R
103	310	1103	CPY1_Required_Production		%	R
104	311	1104	CPY2_Required_Production		%	R
105	312	1105	unit_td_2		---	R
106	313	1106	BIOS_RELEASE	Indicates the release of the BIOS	---	R
107	314	1107	Damper_Alarm_Delay		---	R/W
111	318	1111	BMS_ADDRESS	Address of the controller in a supervisory system network n.1	---	R/W
112	319	1112	BMS2_ADDRESS	Address of the controller in a supervisory system network n.2	---	R/W
113	320	1113	BOARD_TYPE	Type of the controller	---	R
114	321	1114	BOOT_DATE	Indicates the date of the BOOT	---	R
117	324	1117	BOOT_RELEASE	Indicates the release of the BOOT	---	R
118	325	1118	Evap_Temp_Compensation_3		---	R
120	327	1120	Boot_Day_msk		---	R/W
121	328	1121	BUILTIN_TYPE	Specifies the model of BUILTIN terminal connected to the controller	---	R
122	329	1122	Strat_Month_msk		---	R/W
123	330	1123	Strat_Day_msk		---	R/W
124	331	1124	Startup_Delay		---	R/W
125	332	1125	Running_Delay		---	R/W
126	333	1126	Comp_Stop_Delay		---	R/W
128	335	1128	td_alarm_delay		s	R/W
129	336	1129	TD_delay_all_comps		s	R/W
133	340	1133	C2_valve		---	R
134	341	1134	C1_valve		---	R
135	342	1135	COM_BAUDRATE_BMS	Communication speed (baudrate) of the serial port n.1 (the one where usually is connected the supervisory	---	R/W
136	343	1136	COM_BAUDRATE_BMS2	Communication speed (baudrate) of the serial port n.3 (the one where usually is connected the supervisory	---	R/W
137	344	1137	COM_BAUDRATE_FIELDBUS	Communication speed (baudrate) of the serial port n.2 (the one where usually is connected the TLAN or Belimo	---	R/W
138	345	1138	COM_BAUDRATE_FIELDBUS2	Communication speed (baudrate) of the serial port n.4 (the one where usually is connected the TLAN or Belimo	---	R/W

139	346	1139	COM_PROTOCOL_BMS	Indicates the communication protocol used by serial port n 1 (the one where usually is connected the supervisory	---	R/W
140	347	1140	COM_PROTOCOL_BMS2	Indicates the communication protocol used by serial port n 3 (the one where usually is connected the supervisory	---	R/W
141	348	1141	COM_PROTOCOL_FIELDBUS	Indicates the communication protocol used by serial port n 2 (the one where usually is connected the TI/AN or	---	R/W
142	349	1142	COM_PROTOCOL_FIELDBUS2	Indicates the communication protocol used by serial port n 4 (the one where usually is connected the TI/AN or	---	R/W

Digital Variables						
BMS Address	Modbus Address	BacNet Address	Variable name	Description	I/O Status	Read/Write
1	1	1	X1C0		---	R/W
2	2	2	EVD_pCO_Synchro_OK_1	EVD ready to receive the Cooling capacity and starts to regulate the FFV based on the SH	---	R
3	3	3	SET_HOUR	Request to copy NEW_HOUR into HOUR	---	R/W
6	6	6	SET_MINUTE	Request to copy NEW_MINUTE into MINUTE	---	R/W
7	7	7	Reset_FCminOFF		---	R/W
9	9	9	SET_DAY	Request to copy NEW_DAY into DAY	---	R/W
10	10	10	Manual_ON_OFF		---	R/W
12	12	12	SET_MONTH	Request to copy NEW_MONTH into MONTH	---	R/W
13	13	13	En_Mixed_Air_Temp		---	R/W
14	14	14	En_Amb_Hum		---	R/W
15	15	15	SET_YEAR	Request to copy NEW_YEAR into YEAR	---	R/W
16	16	16	En_Mixed_Air_Hum		---	R/W
18	18	18	SET_WEEKDAY	Request to copy NEW_WEEKDAY into WEEKDAY	---	R/W
19	19	19	Inv_Max_Fast_Starts_Reset_1_AI		---	R/W
20	20	20	Res_AI_by_BMS	reset alarm by BMS	---	R/W
21	21	21	DI_Remote_On_Off	remote on/off status	---	R
22	22	22	DI_Airflow_Switch	airflow switch	---	R
23	23	23	DI_Filter_Change	filter change switch	---	R
24	24	24	DI_Phase_Rotation	phase rotation	---	R
25	25	25	DI_Water_Cond_Pump	water condensate pump	---	R
26	26	26	DI_Fire_Smoke	fire smoke status	---	R
27	27	27	DI_Leak_Detector	leak detection	---	R
28	28	28	DI_Over_Heat_Cut_Out	over heat cut out	---	R
29	29	29	DI_C1_CP1_Status	circuit 1 compressor 1 status	---	R
30	30	30	DI_C1_CP2_Status	circuit 1 compressor 2 status	---	R
31	31	31	DI_Low_Pressure_Trip_C1	circuit 1 low pressure trip status	---	R
32	32	32	DI_Low_Pressure_Trip_C2	circuit 2 low pressure trip status	---	R
33	33	33	DI_C2_CP1_Status	circuit 2 compressor 1 status	---	R
34	34	34	DI_C2_CP2_Status	circuit 2 compressor 2 status	---	R
35	35	35	SUPERV_ONOFF	unit on/off by Supervisor	---	R/W
36	36	36	AL_OHCO_Manual	Overheat Cutout Alarm - Manual	---	R
37	37	37	Al_Pos_Bypass_Val_Failure_CT1	Alarm - possible bypass valve failure due to high pressure CT1	---	R
38	38	38	EVD_OR_Sys_Alarms_2	EVD Alarm Circuit 2	---	R
39	39	39	Al_Pos_Bypass_Val_Failure_CT2	Alarm - possible bypass valve failure due to high pressure CT1	---	R
40	40	40	REMOTE_ON_OFF	remote on/off	---	R
41	41	41	AI_Probe_B1	fault probe 1 alarm	---	R
42	42	42	AI_Probe_B2	fault probe 2 alarm	---	R
43	43	43	AI_Probe_B3	fault probe 3 alarm	---	R
44	44	44	AI_Probe_B4	fault probe 4 alarm	---	R
45	45	45	AI_Probe_B5	fault probe 5 alarm	---	R
46	46	46	AI_Probe_B6	fault probe 6 alarm	---	R
47	47	47	AI_Probe_B7	fault probe 7 alarm	---	R
48	48	48	AI_Probe_B8	fault probe 8 alarm	---	R
49	49	49	AI_Probe_B9	fault probe 9 alarm	---	R

50	50	50	AI_Probe_B10	fault probe 10 alarm	---	R
51	51	51	AI_Airflow	airflow failure alarm	---	R
52	52	52	AL_CP1_C1_Status	circuit 1 compressor 1 alarm	---	R
53	53	53	AL_CP2_C1_Status	circuit 1 compressor 2 alarm	---	R
54	54	54	AL_INV_C1_Status	circuit 1 inverter compressor alarm	---	R
55	55	55	AL_CP1_C2_Status	circuit 2 compressor 1 alarm	---	R
56	56	56	AL_CP2_C2_Status	circuit 2 compressor 2 alarm	---	R
57	57	57	AL_INV_C2_Status	circuit 2 inverter compressor alarm	---	R
58	58	58	AL_Filter_Change	filter change alarm	---	R
59	59	59	AL_Phase_Fail	phase failure alarm	---	R
60	60	60	AL_W_Flood_Tray_Cond_Pump_PhRot	Alarm - Combined water flood, drip tray level, cond pump status (and ph rotation on dedicated CW units)	---	R
61	61	61	MAL_FIRE_SMOKE	fire smoke alarm	---	R
62	62	62	AL_Leak_Detector	Leak detector alarm	---	R
63	63	63	AL_OHCO_Auto	Overheat Cutout Alarm - Auto	---	R
64	64	64	AI_Low_Pressure_Crit_C1	low pressure circuit 1 alarm - critical trips	---	R
65	65	65	AI_Low_Pressure_Crit_C2	low pressure circuit 2 alarm - critical trips	---	R
66	66	66	AI_Maint_CP1_C1	circuit 1 compressor 1 maintenance alarm	---	R
67	67	67	AI_Maint_CP2_C1	circuit 1 compressor 2 maintenance alarm	---	R
68	68	68	AI_Maint_INV_C1	circuit 1 inverter compressor maintenance alarm	---	R
69	69	69	AI_Maint_CP1_C2	circuit 2 compressor 1 maintenance alarm	---	R
70	70	70	AI_Maint_CP2_C2	circuit 2 compressor 2 maintenance alarm	---	R
71	71	71	AI_Maint_INV_C2	circuit 2 inverter compressor maintenance alarm	---	R
72	72	72	AI_Maint_Supply_Fan	supply fan maintenance alarm	---	R
73	73	73	AL_HIGH_HUMID	high humidity alarm	---	R
74	74	74	AL_LOW_HUMID	low humidity alarm	---	R
75	75	75	AL_H_Return_Air	high return temperature alarm	---	R
76	76	76	AL_L_Return_Air	low return temperature alarm	---	R
77	77	77	AL_H_SUPPLY_TEMP	high supply temperature alarm	---	R
78	78	78	AL_L_SUPPLY_TEMP	low supply temperature alarm	---	R
79	79	79	AL_HIGH_PRESS1	circuit 1 high pressure alarm	---	R
80	80	80	BMS_Dig_Synchro_Point	test variable	---	R
81	81	81	AL_HIGH_PRESS2	circuit 2 high pressure alarm	---	R
82	82	82	AI_Step_Motor_D1	driver 1 step motor alarm	---	R
83	83	83	AI_Eeprom_D1	driver 1 EEPROM failure alarm	---	R
84	84	84	AI_MOP_Delay_D1	driver 1 mop delay alarm	---	R
85	85	85	AI_LOP_Delay_D1	driver 1 lop delay alarm	---	R
86	86	86	AI_Low_SHeat_D1	driver 1 low superheat alarm	---	R
87	87	87	Reset_Supply_Hum_Alarm_BMS		---	R/W
88	88	88	AI_High_SHeat_D1	driver 1 high superheat alarm	---	R
89	89	89	AI_Probe_S1_D1	driver 1 probe s1 alarm	---	R
90	90	90	AI_Probe_S2_D1	driver 1 probe s2 alarm	---	R
91	91	91	AI_Probe_S3_D1	driver 1 probe s3 alarm	---	R
92	92	92	AI_Step_Motor_D2	driver 2 step motor alarm	---	R
93	93	93	AI_Eeprom_D2	driver 2 EEPROM failure alarm	---	R
94	94	94	AI_MOP_Delay_D2	driver 2 mop delay alarm	---	R
95	95	95	AI_LOP_Delay_D2	driver 2 lop delay alarm	---	R
96	96	96	AI_Low_SHeat_D2	driver 2 low superheat alarm	---	R
97	97	97	AI_Damper	Damper alarm - not open after set time	---	R
98	98	98	AI_High_SHeat_D2	driver 2 high superheat alarm	---	R
99	99	99	AI_Probe_S1_D2	driver 2 probe s1 alarm	---	R
100	100	100	AI_Probe_S2_D2	driver 2 probe s2 alarm	---	R

101	101	101	AI_Probe_S3_D2	driver 2 probe s3 alarm	---	R
102	102	102	AI_Step_Motor_D3	driver 3 step motor alarm	---	R
103	103	103	AI_Probe_S4_D1	driver 1 probe s4 alarm	---	R
104	104	104	AI_Probe_S4_D2	driver 2 probe s4 alarm	---	R
105	105	105	AI_Step_Motor_D4	driver 4 step motor alarm	---	R
106	106	106	AI_Backup_Power_Active	Alarm - backup power supply active	---	R
107	107	107	AL_Phase_Fail_UltraCap	phase failure alarm - ultracap	---	R
108	108	108	AI_Drv1_OffLine	driver 1 offline alarm	---	R
109	109	109	AI_Drv2_OffLine	driver 2 offline alarm	---	R
110	110	110	AI_Low_Pressure_EVO_Crit_C1	EVO low pressure circuit 1 alarm - critical trips	---	R
111	111	111	AI_Low_Pressure_EVO_Crit_C2	EVO low pressure circuit 2 alarm - critical trips	---	R
112	112	112	AL_Clock	controller clock alarm	---	R
113	113	113	AI_Frost	frost protection alarm	---	R
114	114	114	AI_Supply_Water_Temp	supply water temperature alarm	---	R
115	115	115	PM_Offline	power meter offline alarm	---	R
116	116	116	AI_Plan	plan disconnected alarm	---	R
117	117	117	AI_Mn_CPY1	bottle life timer alarm CPY1	---	R
118	118	118	AI_Ec_CPY1	high water conductivity CPY1	---	R
119	119	119	AI_E1_CPY1	configuration parameter error CPY1	---	R
120	120	120	AI_E0_CPY1	internal memory error CPY1	---	R
121	121	121	AI_EH_CPY1	excess electrode current alarm CPY1	---	R
122	122	122	AI_EP_CPY1	low steam flow alarm CPY1	---	R
123	123	123	AI_EU_CPY1	high water level alarm CPY1	---	R
124	124	124	AI_E3_CPY1	no signal connected alarm CPY1	---	R
125	125	125	AI_EF_CPY1	no water supply alarm CPY1	---	R
126	126	126	AI_ED_CPY1	drain problem alarm CPY1	---	R
127	127	127	AI_Su_CPY1	serial connection disconnected alarm CPY1	---	R
128	128	128	AI_PreAL_CY_CPY1	cylinder maintenance alarm CPY1	---	R
129	129	129	AI_E2_CPY1	E2 memory full alarm CPY1	---	R
130	130	130	AI_Pre_EA_CPY1	foam warning alarm CPY1	---	R
131	131	131	AI_EH_1_CPY1	excess current alarm CPY1	---	R
132	132	132	AI_EL_1_CPY1	low humidity alarm CPY1	---	R
133	133	133	AI_Pre_CY_CPY1	lime scale limit steam alarm CPY1	---	R
134	134	134	AI_Pre_CL_CPY1	flakes warning alarm CPY1	---	R
135	135	135	AI_Warning_ID_Device_CPY1	warning ID device CPY1	---	R
136	136	136	AI_Warning_Match_Digit_CPY1	warning match digit CPY1	---	R
137	137	137	AI_CPY_Offline_CPY1	CPY1 offline alarm	---	R
138	138	138	Damper_Open_Feedback	0=Closed, 1=more than 80% open	---	R
139	139	139	Damper_Open_Enable		---	R
140	140	140	Comps_On_C1	circuit 1 compressors on	---	R
141	141	141	Comps_On_C2	circuit 2 compressors on	---	R
142	142	142	FAN_ENABLED	fan enabled	---	R
143	143	143	Alarms_on	alarms on	---	R
144	144	144	Cool_On	cooling on	---	R
145	145	145	Heat_On	heating on	---	R
146	146	146	Hum_On_Icon	Humidity ON icon on Main Mask	---	R
147	147	147	Dehum_On	dehumidification on	---	R
148	148	148	AI_Driver_1	driver 1 alarm	---	R
149	149	149	AI_Driver_2	driver 2 alarm	---	R
150	150	150	AI_Driver_3	driver 3 alarm	---	R
151	151	151	AI_Driver_4	driver 4 alarm	---	R



152	152	152	Al_Drivers	drivers alarm	---	R
153	153	153	Al_Hum_CPY1	humidity alarm CPY1	---	R
154	154	154	Heater1_Thyr	enable first stage of thyristor heating	---	R
155	155	155	STEP_HEATER1	enable heater stage 1	---	R
156	156	156	STEP_HEATER2	enable heater stage 2	---	R
157	157	157	STEP_HEATER3	enable heater stage 3	---	R
158	158	158	GO_Comp_1_C1	start compressor 1 circuit 1	---	R
159	159	159	GO_Comp_2_C1	start compressor 2 circuit 1	---	R
160	160	160	Al_Low_Pressure_C1	low pressure circuit 1 alarm	---	R
161	161	161	Light_Alarms	non critical alarms	---	R
162	162	162	Serious_Alarms	critical alarms	---	R
163	163	163	GO_Comp_1_C2	start compressor 1 circuit 2	---	R
164	164	164	GO_Comp_2_C2	start compressor 2 circuit 2	---	R
165	165	165	Al_Low_Pressure_C2	low pressure circuit 2 alarm	---	R
166	166	166	HGRH_Valve_Enable	enable hot gas reheat solenoid valve to open coil	---	R
167	167	167	En_Dry_Cool_1	dry cooler enabled circuit 1	---	R
168	168	168	En_Dry_Cool_2	dry cooler enabled circuit 2	---	R
169	169	169	Al_Low_Pressure_EVO_C1	EVO low pressure circuit 1 alarm	---	R
170	170	170	AL_Calc_Error1	air flow calculation error alarm	---	R
171	171	171	AL_Dis_Temp_C1	discharge gas high temperature c1 alarm	---	R
172	172	172	AL_Dis_Temp_C2	discharge gas high temperature c2 alarm	---	R
173	173	173	AL_Dis_Temp_C1_Warn	discharge gas high temperature warning c1	---	R
174	174	174	AL_Dis_Temp_C2_Warn	discharge gas high temperature warning c2	---	R
175	175	175	Al_Dry_C_C1	dry cooler alarm c1	---	R
176	176	176	Al_Dry_C_C2	dry cooler alarm c2	---	R
177	177	177	Shutdown_Alarms	unit shutdown alarm	---	R
178	178	178	Al_Low_Pressure_EVO_C2	EVO low pressure circuit 2 alarm	---	R
179	179	179	AL_DC_Low_Inlet_C1	low inlet temperature alarm	---	R
180	180	180	Dout_1	digital output status 1 – heating stage 1	---	R
181	181	181	Dout_2	digital output status 2 – heating stage 2	---	R
182	182	182	Dout_3	digital output status 3 – heating stage 3	---	R
183	183	183	Dout_4	digital output status 4 – circuit 1 compressor 1 / dual power priority / inverter enable	---	R
184	184	184	Dout_5	digital output status 5 – circuit 1 compressor 2	---	R
185	185	185	Dout_6	digital output status 6 – circuit 1 liquid line solenoid	---	R
186	186	186	Dout_7	digital output status 7 – non critical alarm	---	R
187	187	187	Dout_8	digital output status 8 – critical alarm	---	R
188	188	188	Dout_9	digital output status 9 – circuit 2 compressor 1	---	R
189	189	189	Dout_10	digital output status 10 - circuit 2 compressor 2	---	R
190	190	190	Dout_11	digital output status 11 - circuit 1 liquid line solenoid	---	R
191	191	191	Dout_12	digital output status 12 – hot gas solenoid valve	---	R
192	192	192	Dout_13	digital output status 13 – dual power priority set	---	R
193	193	193	Dout_14	digital output status 14	---	R
194	194	194	Dout_15	digital output status 15	---	R
195	195	195	Dout_16	digital output status 16 – dry cooler pump enable circuit 1	---	R
196	196	196	Dout_17	digital output status 17 – dry cooler pump enable circuit 2	---	R
197	197	197	Dout_18	digital output status 18	---	R
198	198	198	Syson	unit on/off	---	R
199	199	199	Show_B10b	Used for pGDT display	---	R/W
200	200	200	Al_Supply_Water_Temp_C2	supply water input temperature alarm	---	R
201	201	201	aL_low_oil_Circ1	inverter unit low oil in compressor in circuit 1 alarm	---	R
202	202	202	aL_low_oil_Circ2	inverter unit low oil in compressor in circuit 2 alarm	---	R

203	203	203	Dis_Comps_Pow_Fail	compressor oil preheat active	---	R
204	204	204	AI_LPHW_FP	frost protection alarm	---	R
205	205	205	AI_Pumpdown	pump down cycle complete alarm	---	R
206	206	206	AI_Inverter_C1_Max_Evap_Temp	compressor 1 max evaporating temperature alarm	---	R
207	207	207	AI_Inverter_C2_Max_Evap_Temp	compressor 2 max evaporating temperature alarm	---	R