



ECO-CMB-BAC Bacnet Information



Rev: 060724

Bacnet MS/TP and UDP protocol can be configured via the local user interface.

Default Settings			
Default Protocol:	MS/TP	Device Instance:	2
Baudrate:	19200	UDP Port:	47808
Stop Bits:	1	IP Address:	DHCP
Parity:	None		
MAC Address:	1	Timeout:	3000
Max Masters:	127	Cmd Timeout:	1500
Info Frames:	10		

Retained memory Warning: Read_Writeable points have a lifetime limit. Avoid excessive value changes.

Points List					
Object Instance	Type	Variable Name	R/W Access	Description	Values / Comments
0	BinaryValue	OnOffUnitMng.BmsOnOff	Read_Writeable	Enable/Disable system operation via BMS	
1	BinaryValue	OnOffUnitMng.KeybOnOff	Read_NoWrite	Indicates if system is Enabled/Disabled at local interface	0 = Disabled, 1 = Enabled
2	BinaryValue	OnOffUnitMng.EndInOnOff	Read_NoWrite	Indicates if BMS control has been allowed at local interface	
3	IntegerValue	Avg_Inlet	Read_NoWrite	Average Inlet water temp of all RUNNING HPs (F)	
4	IntegerValue	Avg_Outlet	Read_NoWrite	Average Outlet water temp of all RUNNING HPs (F)	
5	IntegerValue	Avg_Ambient	Read_NoWrite	Average Ambient temp of ALL HPs (F)	
6	PositiveIntegerValue	Total_Amps	Read_NoWrite	Total Amp draw of ALL HPs (A)	
7	AnalogValue	T[1]	Read_NoWrite	Temperature probe T1 reading (F).	
8	AnalogValue	T[2]	Read_NoWrite	Temperature probe T2 reading (F).	
9	AnalogValue	T[3]	Read_NoWrite	Temperature probe T3 reading (F). If installed	
10	AnalogValue	T[4]	Read_NoWrite	Temperature probe T4 reading (F). If installed	
11	AnalogValue	T[5]	Read_NoWrite	Temperature probe T5 reading (F). If installed	
12	AnalogValue	T[6]	Read_NoWrite	Temperature probe T6 reading (F). If installed	
13	IntegerValue	HP_Count	Read_NoWrite	Number of HPs in the system	
14	IntegerValue	HP_Running	Read_NoWrite	Number of HPs currently Running	
15	IntegerValue	HP_Standby	Read_NoWrite	Number of HPs currently in Standby	
16	IntegerValue	Total_HP_Alms	Read_NoWrite	Number of HPs currently in Alarm	
17	BinaryValue	Aux_Alarm.Trigger	Read_NoWrite	Indicates alarm sensed by Aux alarm dry contact	
18	BinaryValue	Probe_Alarm.Trigger	Read_NoWrite	Indicates critical probe (T1 or T2) alarm. Disables system.	
19	BinaryValue	HP_Alarm_1.Trigger	Read_NoWrite	Indicates alarm state for HP 1	
20	BinaryValue	HP_Alarm_2.Trigger	Read_NoWrite	Indicates alarm state for HP 2	
21	BinaryValue	HP_Alarm_3.Trigger	Read_NoWrite	Indicates alarm state for HP 3	
22	BinaryValue	HP_Alarm_4.Trigger	Read_NoWrite	Indicates alarm state for HP 4	
23	BinaryValue	HP_Alarm_5.Trigger	Read_NoWrite	Indicates alarm state for HP 5	
24	BinaryValue	HP_Alarm_6.Trigger	Read_NoWrite	Indicates alarm state for HP 6	
25	BinaryValue	HP_Alarm_7.Trigger	Read_NoWrite	Indicates alarm state for HP 7	
26	BinaryValue	HP_Alarm_8.Trigger	Read_NoWrite	Indicates alarm state for HP 8	
27	BinaryValue	HP_Alarm_9.Trigger	Read_NoWrite	Indicates alarm state for HP 9	
28	BinaryValue	HP_Alarm_10.Trigger	Read_NoWrite	Indicates alarm state for HP 10	
29	BinaryValue	HP_Alarm_11.Trigger	Read_NoWrite	Indicates alarm state for HP 11	
30	BinaryValue	HP_Alarm_12.Trigger	Read_NoWrite	Indicates alarm state for HP 12	
31	BinaryValue	HP_Alarm_13.Trigger	Read_NoWrite	Indicates alarm state for HP 13	
32	BinaryValue	HP_Alarm_14.Trigger	Read_NoWrite	Indicates alarm state for HP 14	
33	BinaryValue	HP_Alarm_15.Trigger	Read_NoWrite	Indicates alarm state for HP 15	
34	BinaryValue	HP_Alarm_16.Trigger	Read_NoWrite	Indicates alarm state for HP 16	0 = Normal, 1 = Alarm
35	BinaryValue	HP_Alarm_17.Trigger	Read_NoWrite	Indicates alarm state for HP 17	
36	BinaryValue	HP_Alarm_18.Trigger	Read_NoWrite	Indicates alarm state for HP 18	
37	BinaryValue	HP_Alarm_19.Trigger	Read_NoWrite	Indicates alarm state for HP 19	
38	BinaryValue	HP_Alarm_20.Trigger	Read_NoWrite	Indicates alarm state for HP 20	
39	BinaryValue	HP_Alarm_21.Trigger	Read_NoWrite	Indicates alarm state for HP 21	
40	BinaryValue	HP_Alarm_22.Trigger	Read_NoWrite	Indicates alarm state for HP 22	
41	BinaryValue	HP_Alarm_23.Trigger	Read_NoWrite	Indicates alarm state for HP 23	
42	BinaryValue	HP_Alarm_24.Trigger	Read_NoWrite	Indicates alarm state for HP 24	
43	BinaryValue	HP_Alarm_25.Trigger	Read_NoWrite	Indicates alarm state for HP 25	
44	BinaryValue	HP_Alarm_26.Trigger	Read_NoWrite	Indicates alarm state for HP 26	
45	BinaryValue	HP_Alarm_27.Trigger	Read_NoWrite	Indicates alarm state for HP 27	
46	BinaryValue	HP_Alarm_28.Trigger	Read_NoWrite	Indicates alarm state for HP 28	
47	BinaryValue	HP_Alarm_29.Trigger	Read_NoWrite	Indicates alarm state for HP 29	
48	BinaryValue	HP_Alarm_30.Trigger	Read_NoWrite	Indicates alarm state for HP 30	
49	BinaryValue	HP_Alarm_31.Trigger	Read_NoWrite	Indicates alarm state for HP 31	
50	BinaryValue	HP_Alarm_32.Trigger	Read_NoWrite	Indicates alarm state for HP 32	
51	IntegerValue	HP_Data.Num	Read_NoWrite	Set desired HP number to look up that unit's data	0 - HP Count
52	PositiveIntegerValue	HP_Data.Select_State	Read_NoWrite	State of selected HP	0 = Standby, 1 = AP, 2 = FP, 3 = Running
53	IntegerValue	HP_Data.Select_Inlet	Read_NoWrite	Inlet Water temp of selected HP (F)	
54	IntegerValue	HP_Data.Select_Outlet	Read_NoWrite	Outlet Water temp of selected HP (F)	
55	IntegerValue	HP_Data.Select_Amb	Read_NoWrite	Ambient temp of selected HP (F)	
56	PositiveIntegerValue	HP_Data.Select_Amps	Read_NoWrite	Amp draw of selected HP. (A)	
57	PositiveIntegerValue	HP_Data.Select_Comp_Hrs	Read_NoWrite	Total compressor runtime for HP selected. (hrs)	
58	PositiveIntegerValue	HP_Data.Select_Day_Hrs	Read_NoWrite	Daily runtime for HP selected. (hrs)	Resets every 24 hours at 1 am. HPs limited to 12 hrs/day.
59	PositiveIntegerValue	Select_Error[1]	Read_NoWrite	Active Error code of selected HP	Contact Eco2 for additional info
61	IntegerValue	Heat_CtrlOn_Probe	Read_NoWrite	Identifies which probe is set to turn HPs On	1 = T1, 2 = T2 Default: T1
62	IntegerValue	Heat_CtrlOff_Probe	Read_NoWrite	Identifies which probe is set to turn HPs Off	1 = T1, 2 = T2 Default: T1
63	AnalogValue	Start_SP	Read_NoWrite	Setpoint to begin heating cycle. (F)	60-130F Default: 100 Do not attempt to write values >105F when On Probe set to 1.
64	AnalogValue	Stop_SP	Read_NoWrite	Setpoint to end heating cycle. (F)	80-140F Default: 105F Do not attempt to write values >110F when On Probe set to 1.
65	AnalogValue	Start_Step	Read_NoWrite	Differential below Start_SP at which each additional HP is started. (F)	0-20F Default: 5F
66	AnalogValue	Stop_Step	Read_NoWrite	Differential below Stop_SP at which HPs are stopped. (F)	0-20F Default: 2F
67	IntegerValue	HP_Per_Step	Read_COV_Writeable	Adjusts the number of HPs to Start/Stop with each step.	0 - HP Count Default: 1
68	PositiveIntegerValue	Run_Rotation.Daily_Limit	Read_Writeable	Adjustable daily runtime limit. (hrs)	1 - 16 hours Default: 12 Setting above 12 without Eco2 OK will void HP warranty.
69	IntegerValue	HP_Run_Limit	Read_Writeable	Adjustable limit on the number of HPs to run at one time	0 - HP Count Default: HP Count
70	PositiveIntegerValue	HP_Hand[1]	Read_Writeable	Hand/Auto/Off override for HP 1	
71	PositiveIntegerValue	HP_Hand[2]	Read_Writeable	Hand/Auto/Off override for HP 2	
72	PositiveIntegerValue	HP_Hand[3]	Read_Writeable	Hand/Auto/Off override for HP 3	
73	PositiveIntegerValue	HP_Hand[4]	Read_Writeable	Hand/Auto/Off override for HP 4	
74	PositiveIntegerValue	HP_Hand[5]	Read_Writeable	Hand/Auto/Off override for HP 5	
75	PositiveIntegerValue	HP_Hand[6]	Read_Writeable	Hand/Auto/Off override for HP 6	
76	PositiveIntegerValue	HP_Hand[7]	Read_Writeable	Hand/Auto/Off override for HP 7	
77	PositiveIntegerValue	HP_Hand[8]	Read_Writeable	Hand/Auto/Off override for HP 8	
78	PositiveIntegerValue	HP_Hand[9]	Read_Writeable	Hand/Auto/Off override for HP 9	
79	PositiveIntegerValue	HP_Hand[10]	Read_Writeable	Hand/Auto/Off override for HP 10	
80	PositiveIntegerValue	HP_Hand[11]	Read_Writeable	Hand/Auto/Off override for HP 11	
81	PositiveIntegerValue	HP_Hand[12]	Read_Writeable	Hand/Auto/Off override for HP 12	
82	PositiveIntegerValue	HP_Hand[13]	Read_Writeable	Hand/Auto/Off override for HP 13	
83	PositiveIntegerValue	HP_Hand[14]	Read_Writeable	Hand/Auto/Off override for HP 14	
84	PositiveIntegerValue	HP_Hand[15]	Read_Writeable	Hand/Auto/Off override for HP 15	
85	PositiveIntegerValue	HP_Hand[16]	Read_Writeable	Hand/Auto/Off override for HP 16	
86	PositiveIntegerValue	HP_Hand[17]	Read_Writeable	Hand/Auto/Off override for HP 17	
87	PositiveIntegerValue	HP_Hand[18]	Read_Writeable	Hand/Auto/Off override for HP 18	
88	PositiveIntegerValue	HP_Hand[19]	Read_Writeable	Hand/Auto/Off override for HP 19	
89	PositiveIntegerValue	HP_Hand[20]	Read_Writeable	Hand/Auto/Off override for HP 20	
90	PositiveIntegerValue	HP_Hand[21]	Read_Writeable	Hand/Auto/Off override for HP 21	

91	PositiveIntegerValue	HP_Hand[22]	Read_Writeable	Hand/Auto/Off override for HP 22	
92	PositiveIntegerValue	HP_Hand[23]	Read_Writeable	Hand/Auto/Off override for HP 23	
93	PositiveIntegerValue	HP_Hand[24]	Read_Writeable	Hand/Auto/Off override for HP 24	
94	PositiveIntegerValue	HP_Hand[25]	Read_Writeable	Hand/Auto/Off override for HP 25	
95	PositiveIntegerValue	HP_Hand[26]	Read_Writeable	Hand/Auto/Off override for HP 26	
96	PositiveIntegerValue	HP_Hand[27]	Read_Writeable	Hand/Auto/Off override for HP 27	
97	PositiveIntegerValue	HP_Hand[28]	Read_Writeable	Hand/Auto/Off override for HP 28	
98	PositiveIntegerValue	HP_Hand[29]	Read_Writeable	Hand/Auto/Off override for HP 29	
99	PositiveIntegerValue	HP_Hand[30]	Read_Writeable	Hand/Auto/Off override for HP 30	
100	PositiveIntegerValue	HP_Hand[31]	Read_Writeable	Hand/Auto/Off override for HP 31	
101	PositiveIntegerValue	HP_Hand[32]	Read_Writeable	Hand/Auto/Off override for HP 32	
102	PositiveIntegerValue	Hand.Aux_Hand	Read_Writeable	Hand/Auto/Off override for Auxiliary Signal	
103	CharacterString	Prog_Name	Read_NoWrite	Name of Installed Program	
104	CharacterString	Prog_Rev	Read_NoWrite	Revision of Installed Program	
105	CharacterString	Prog_Date	Read_NoWrite	Date of Installed Program	
106	PositiveIntegerValue	Select_Error[2]	Read_NoWrite	Active Error description of selected HP	Contact Eco2 for additional info