



ModBus-/Bacnet-List for Enrad Carel Master

Revision: 1.0

Date: Oct-25

COILS					
Index	Description	Def	Meaning values	Range	BACnet
0	Unit On/Off by BMS	-	0:Off; 1:On	-	BV0
1	Enable unit On/Off by BMS	-	0:No; 1:Yes	-	BV1

DISCRETE INPUTS					
Index	Description	Def	Meaning values	Range	BACnet
111	Cooling/Heating mode active	-	: Cooling; 1: Heatin	-	BV366
113	Warm water pump 1 active	-	0: Off; 1: On	-	BV412
118	Cold water pump 1 active	-	0: Off; 1: On	-	
99	Slave 1 compressor on	-	0: Off; 1: On	-	BV393
100	Slave 2 compressor on	-	0: Off; 1: On	-	BV394
24	Slave 1 offline	-	0: Online;1:Offline	-	BV125
25	Slave 2 offline	-	0: Online;1:Offline	-	BV126
26	Slave 3 offline	-	0: Online;1:Offline	-	BV127
27	Slave 4 offline	-	0: Online;1:Offline	-	BV128
32	Slave 1 alarm present	-	0:No alarm; 1:Alarm	-	BV133
33	Slave 2 alarm present	-	0:No alarm; 1:Alarm	-	BV134
34	Slave 3 alarm present	-	0:No alarm; 1:Alarm	-	BV135
35	Slave 4 alarm present	-	0:No alarm; 1:Alarm	-	BV136

DISCRETE INPUTS					
Index	Description	Def.	UoM	Range	BACnet
8	Warm water inlet temperature	-	°C/°F	-999.9...999.9	AV89
9	Warm water outlet temperature	-	°C/°F	-999.9...999.9	AV90
10	Cold water inlet temperature	-	°C/°F	-999.9...999.9	AV91
11	Cold water outlet temperature	-	°C/°F	-999.9...999.9	AV92
23	Slave 1 evaporator temperature	-	°C/°F	-999.9...999.9	AV144
24	Slave 1 condensator temperature	-	°C/°F	-999.9...999.9	AV145
36	Slave 1 oil temperature	-	°C/°F	-999.9...999.9	AV157
21	Slave 1 discharge temperature	-	°C/°F	-999.9...999.9	AV143
49	Slave 2 discharge temperature	-	°C/°F	-999.9...999.9	AV174
51	Slave 2 evaporator temperature	-	°C/°F	-999.9...999.9	AV175
52	Slave 2 condensator temperature	-	°C/°F	-999.9...999.9	AV176
64	Slave 2 oil temperature	-	°C/°F	-999.9...999.9	AV188
192	Regulation setpoint	-	°C/°F	-999.9...999.9	AV385
190	Current unit status	-	-	1: UNIT ON; 2: OFF BY ALARM; 3: OFF BY BMS; 4: OFF BY SCHED; 5: OFF BY DI; 6: OFF BY KEYBOARD; 8: OFF BY CHANGEOVER; 9: OFF BY EXTERNAL TEMPERATURE;	
187	Warm water pump request	-	%	0.0...100.0	
188	Cold water pump request	-	%	0.0...100.0	
22	Slave 1 current request	-	%	0.0...100.0	AV331
50	Slave 2 current request	-	%	0.0...100.0	AV334
77	Slave 3 discharge temperature	-	°C/°F	-999.9...999.9	AV205
78	Slave 3 current request	-	%	0.0...100.0	AV337
79	Slave 3 evaporator temperature	-	°C/°F	-999.9...999.9	AV206
80	Slave 3 condensator temperature	-	°C/°F	-999.9...999.9	AV207
92	Slave 3 oil temperature	-	°C/°F	-999.9...999.9	AV219
105	Slave 4 discharge temperature	-	°C/°F	-999.9...999.9	AV236
106	Slave 4 current request	-	%	0.0...100.0	AV340
107	Slave 4 evaporator temperature	-	°C/°F	-999.9...999.9	AV237
108	Slave 4 condensator temperature	-	°C/°F	-999.9...999.9	AV238
120	Slave 4 oil temperature	-	°C/°F	-999.9...999.9	AV250
133	Slave 5 discharge temperature	-	°C/°F	-999.9...999.9	AV267
134	Slave 5 current request	-	%	0.0...100.0	AV343
135	Slave 5 evaporator temperature	-	°C/°F	-999.9...999.9	AV268
136	Slave 5 condensator temperature	-	°C/°F	-999.9...999.9	AV269
148	Slave 5 oil temperature	-	°C/°F	-999.9...999.9	AV281
161	Slave 6 discharge temperature	-	°C/°F	-999.9...999.9	AV298
162	Slave 6 current request	-	%	0.0...100.0	AV346
163	Slave 6 evaporator temperature	-	°C/°F	-999.9...999.9	AV299
164	Slave 6 condensator temperature	-	°C/°F	-999.9...999.9	AV300
176	Slave 6 oil temperature	-	°C/°F	-999.9...999.9	AV312
197	Slave 7 Discharge temperature	-	°C/°F	0.0...100.0	AV444
198	Slave 7 Current request	-	%	-999.9...999.9	AV445
199	Slave 7 Evaporation temperature	-	°C/°F	-999.9...999.9	AV446
200	Slave 7 Condensation temperature	-	°C/°F	-999.9...999.9	AV447
212	Slave 7 Oil temperature	-	°C/°F	-999.9...999.9	AV459