enrad

ModBus-/Bacnet-List for Enrad Standalone Module

Revision: 1.0

Date: Oct-25

COILS

Index	Description	Def	Meaning values	Range	BACnet
0	BMS unit switch-On/Off enable	0	0:No; 1:Yes	-	BV1
1	BMS unit switch-On/Off	0	0:Off; 1:On	-	BV2
3	Alarm reset command by BMS	0	0:No; 1:Yes	-	BV4
4	Unit On-Off by keyboard (0=Off; 1=On)	0	0:Off; 1:On	-	BV5
5	Q003 - Cooling/Heating mode	0	0:Chiller; 1:Heat pump	-	BV6

DISCRETE INPUTS

Index	Description	Def	Meaning values	Range	BACnet
3	Cold circuit flow switch (digital input status)	-	0: Off; 1: On	-	BV58
4	Warm circuit flow switch (digital input status)	-	0: Off; 1: On	-	BV59
6	General alarm	-	0: Off; 1: On	-	BV61
8	Cold circuit valve 1 on	-	0: Off; 1: On	-	BV63
10	Warm circuit valve 1 on	-	0: Off; 1: On	-	BV65
14	Compressor 1 circuit 1 status	-	0: Off; 1: On	-	BV67
51	Unit - Cold circuit pump 1 overload	-	0: No; 1: Yes	-	BV86
53	Unit - Warm circuit pump 1 overload	-	0: No; 1: Yes	-	BV88
55	Unit - Flow switch alarm, no flow present with cold circuit valve 1 active	-	0: No; 1: Yes	-	BV90
57	Unit - Flow switch alarm, no flow present with warm circuit valve 1 active	-	0: No; 1: Yes	-	BV92
132	Circuit 1 - Overload compressor 1	-	0: No; 1: Yes	-	BV133
194	GLD - Low level alarm	-	0: No; 1: Yes	-	BV671
195	GLD - High level alarm	-	0: No; 1: Yes	-	BV672
242	Differential pressure alarm	-	0: No; 1: Yes	-	BV617
260	Cooling/Heating mode	-	0: No; 1: Yes	-	BV634

HOLDING REGISTERS

Index	Description	Def.	UoM	Range	BACnet
1	Q001 - Cooling mode setpoint	7	°C/°F	-99.9...999.9	AV183
2	Q002 - Heating mode setpoint	40	°C/°F	-99.9...999.9	AV184

INPUT REGISTERS

Index	Description	Def.	UoM	Range	BACnet
0	Unit status	-	-	1:Std-by; 2:Off by alarm; 3:Off by bms; 4:Off by sched; 5:Off by din; 6:Off by keyboard; 7:Off by chg-over; 8:Freecooling; 9:Comp on; 10:Defrost; 11: Shutting-down; 12: Comp. start-up; 13: Oil recovery; 14: Pump-down; 15: Crank case stop;	PIV397
2	Power run circuit 1	-	%	0.0...100.0	AV399
13	Compressor 1 circuit 1 status	-	-	0:Off; 1:Off (s); 2:On; 3:On (s); 4:Man ON; 5:Man OFF; 6:Frcd OFF; 7:Defr; 8:PmpD; 9:Prev; 10:Alarm	PIV410
68	Cold circuit water outlet probe	-	°C/°F	-99.9...999.9	AV455
69	Cold circuit water inlet probe	-	°C/°F	-99.9...999.9	AV456
70	Actual setpoint	-	°C/°F	-99.9...99.9	AV457
78	Drycooler analog output value	-	-	0...1000	AV465
153	Warm circuit pump 1 inverter request	-	-	0...1000	AV501
173	Unit - Warm circuit water output temperature	-	°C/°F	-99.9...99.9	AV512
182	Differential pressure	-	Pa	-999.9...999.9	AV596
198	Cold water pump signal	-	%	-999.9...999.9	AV654
200	Gas concentration PPM detector 1	-	PPM	0...65535	PIV695
201	Delta inverter power	-	KW*10	0...65535	PIV697
65	Warm circuit water inlet temperature	-	°C/°F	-999.9...999.9	AV452