



Liebert[®] PDX and Liebert[®] PCW V1A Application Monitoring User Guide

Installer/User Guide

for Liebert[®] iCOM[™] 3

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Technical Support Site

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures.

Visit <https://www.vertiv.com/en-us/support/> for additional assistance.

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1 Scope

This document provides the monitoring data point lists for Vertiv™ Liebert® Thermal Management Units running the V1A SW application. The Vertiv units that are covered by this monitoring manual are:

1. Vertiv™ Liebert® PDX with Vertiv™ Liebert® iCOM™ 3 controller
2. Vertiv™ Liebert® PCW with Liebert® iCOM™ 3 controller

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2 Monitoring Protocols

All the monitoring protocols provided are over IP through a dedicated Ethernet port, that is physically disconnected from the rest of the other controller interfaces and communicating via serial RS485 protocol with the microprocessor.

- Default IP Address of the monitoring port: 192.168.254.200

The web site is available at that address. At the first access the user is guided by a “First Boot Access” wizard that forces the creation of the web user accounts.

The following standard monitoring protocols are made available together in parallel:

- Modbus TCP/IP
 - Port 502
 - Default address: 1
- BACnet IP v1.14
 - UDP Port 47808
 - Default address: 1
 - Default device name: NHES1
- SNMP v2c
 - UDP Port 161
 - R/W community: “private”
 - RO community: “public”

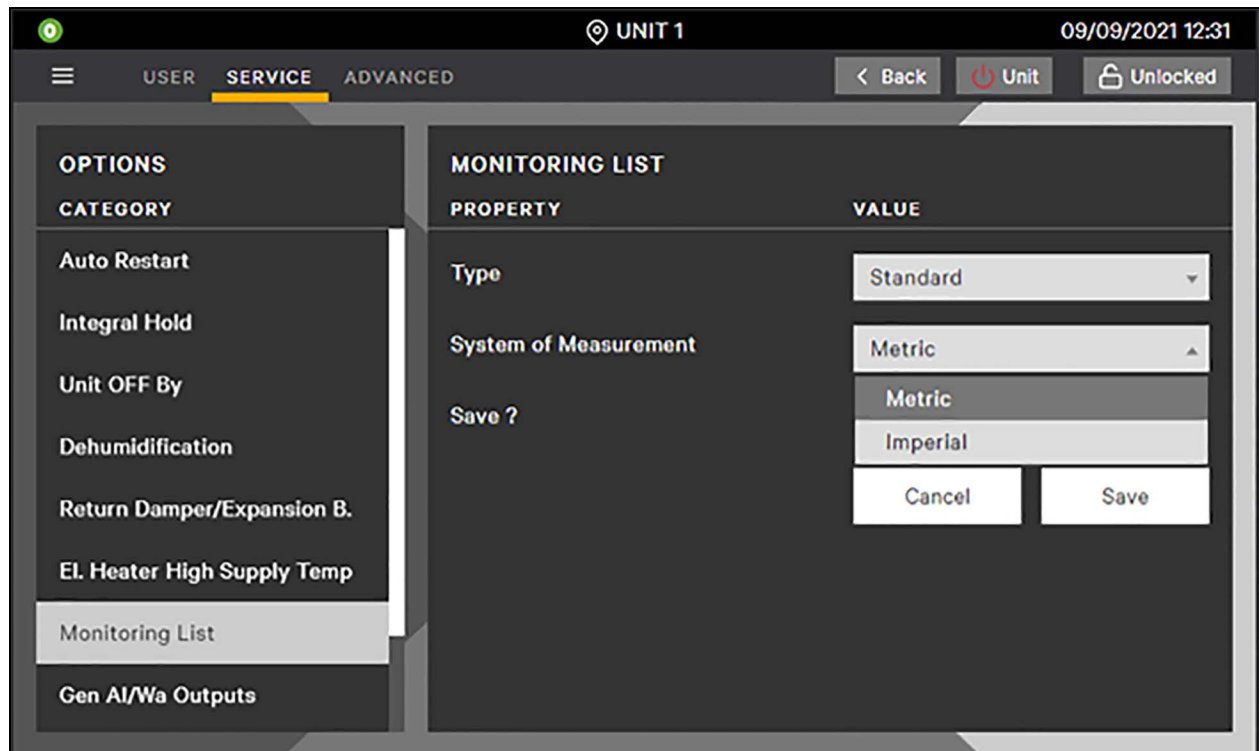
The last column on every data points table reports the SW version from which the specific data point is made available.

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3 Unit of Measurement System

It is possible to select the system of measurement for the parameters that are made available on the monitoring protocols. The selection can be done on the HMI at the page Service/Options/Monitoring List or via BMS (see data point “Monitoring System of Measurement”). See **Figure 3.1** below .

Figure 3.1 Monitoring List

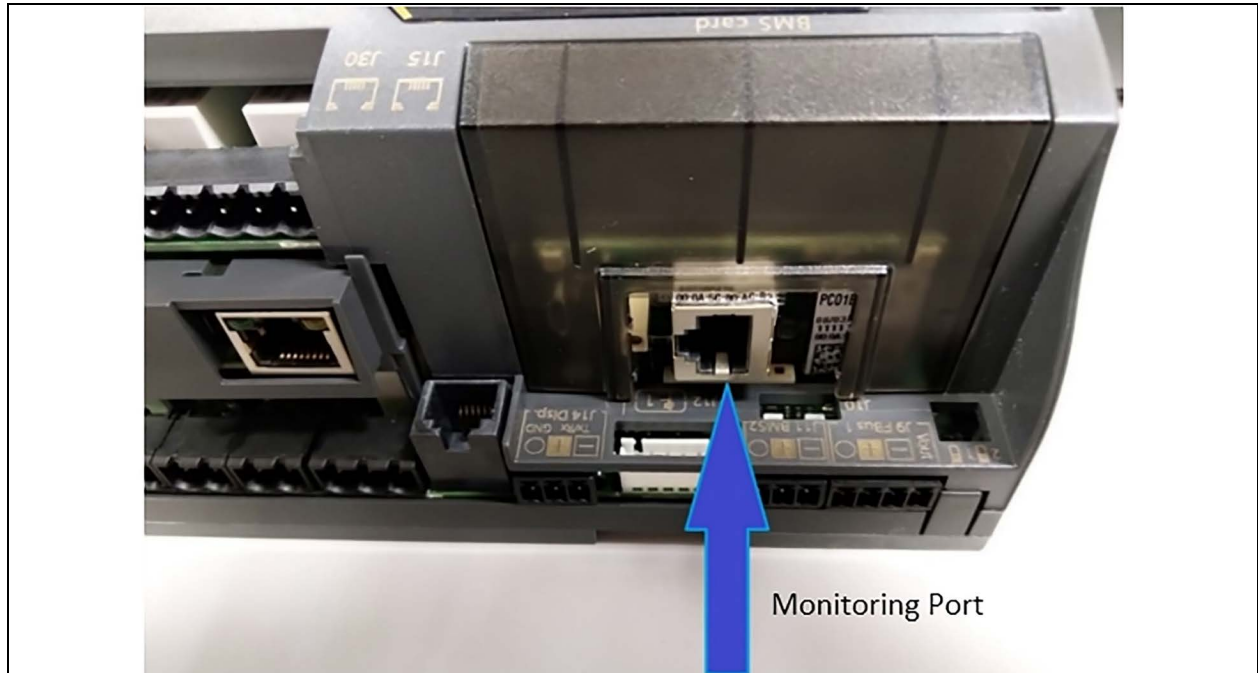


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4 Connections

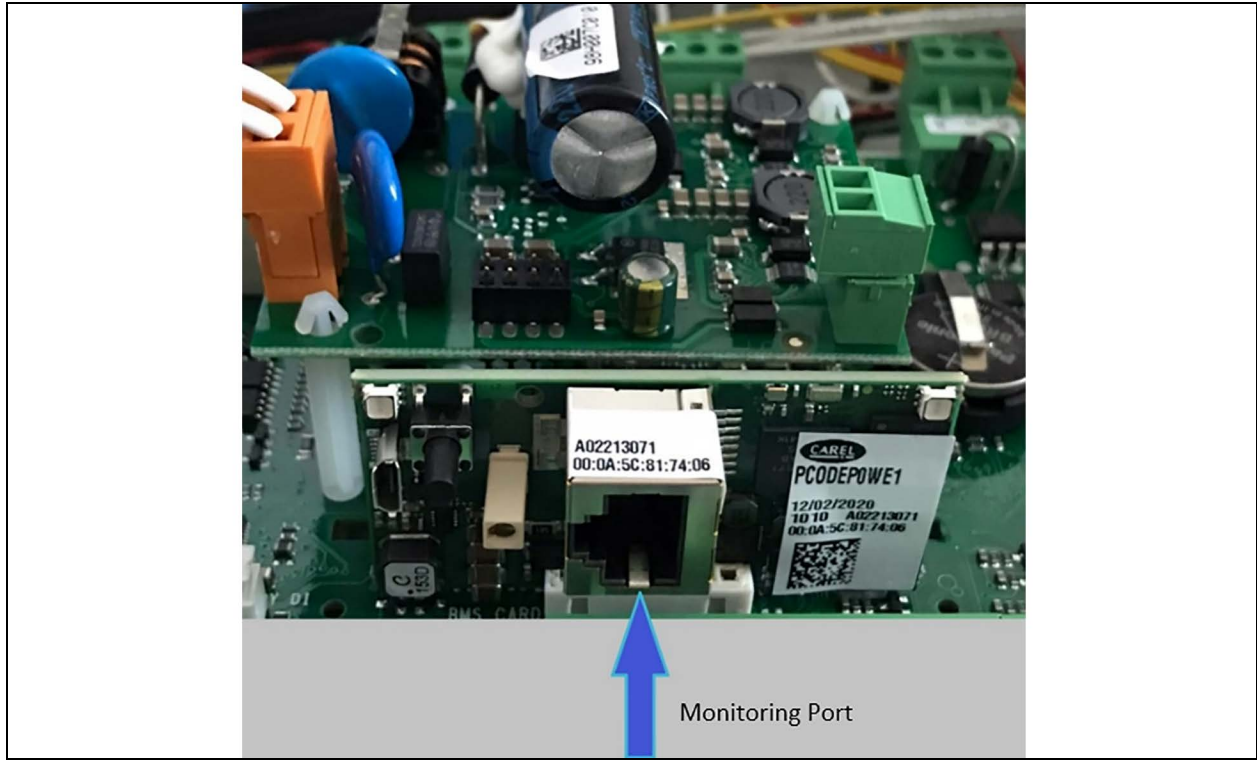
4.1 Ethernet Connection on Vertiv™ Liebert® iCOM™ 3 Medium

Figure 4.1 Monitoring Port



4.2 Ethernet Connection on Vertiv™ Liebert® iCOM™ 3 Small

Figure 4.2 Monitoring Port



NOTE: See the “Vertiv iCOM3 Monitoring Port Configuration UM-EN-EMEA” manual for further info about how to upload and activate a usable monitoring model into the monitoring port of a Liebert® iCOM™ 3 controller.

4.3 Networking

The monitoring port must not be connected in the same network of the Vertiv™ Liebert® iCOM™ 3 boards, in order to separate completely the monitoring from the Teamwork local network. The Liebert® iCOM™ 3 Teamwork port shall not be used for monitoring or management purposes by the customer since it is reserved for authorized service.

5 Modbus TCP/IP

5.1 Input Status

The following Boolean read-only data points are available on:

- Input Status Command 02

Table 5.1 Input Status

IS	Variable	Description	Type	Version
1	AL_retain.Active	Retain Memory Error	Alarm	1.0.6
2	AL_Err_retain_write.Active	Too Much Retain Writing	Alarm	1.0.6
3	AL_HeaterHiT.Active	Heater High Temperature Lockout	Warning	1.0.6
4	AL_HiRetAirTemp.Active	High Return Temperature	Warning	1.0.6
5	AL_HiSupAirTemp.Active	High Supply Temperature	Warning	1.0.6
6	AL_HiRemAirTemp.Active	High Remote Temperature	Warning	1.0.6
7	AL_LowRetAirTemp.Active	Low Return Temperature	Warning	1.0.6
8	AL_LowSupAirTemp.Active	Low Supply Temperature	Warning	1.0.6
9	AL_LowRemAirTemp.Active	Low Remote Temperature	Warning	1.0.6
10	AL_EvpFan.Active	One (or more) Evaporator Fan in Alarm	Alarm	1.0.6
11	AL_EvpFanOffline.Active	One (or more) Evaporator Fan Offline	Alarm	1.0.6
12	AL_AllEvpFansOffline.Active	All Evaporator Fans Offline	Alarm	1.0.6
13	AL_GenFan.Active	Loss of Air Flow	Alarm	1.0.6
14	---	---	---	---
15	AL_BmsOffline.Active	BMS Offline	Warning	1.0.6
16	AL_LPCirc1.Active	Low Pressure Circuit 1	Alarm	1.0.6
17	AL_LPCirc2.Active	Low Pressure Circuit 2	Alarm	1.0.6
18	AL_HPCirc1.Active	High Pressure Circuit 1	Alarm	1.0.6
19	AL_HPCirc2.Active	High Pressure Circuit 2	Alarm	1.0.6
20	AL_SoftHPCirc1.Active	Soft High Pressure Circuit 1	Warning	1.0.6
21	AL_SoftHPCirc2.Active	Soft High Pressure Circuit 2	Warning	1.0.6
22	AL_ThComp1Circ1.Active	Thermal Protection Compressor 1 Circuit 1	Alarm	1.0.6
23	AL_ThComp2Circ1.Active	Thermal Protection Compressor 2 Circuit 1	Alarm	1.0.6
24	AL_ThComp1Circ2.Active	Thermal Protection Compressor 1 Circuit 2	Alarm	1.0.6
25	AL_ThComp2Circ2.Active	Thermal Protection Compressor 2 Circuit 2	Alarm	1.0.6
26	AL_LowSH_C1.Active	Low Suction SuperHeat Circuit 1	Alarm	1.0.6
27	AL_LowSH_C2.Active	Low Suction SuperHeat Circuit 2	Alarm	1.0.6
28	AL_HiSH_Circ1	High Suction SuperHeat Circuit 1	Alarm	1.0.12

Table 5.1 Input Status (continued)

IS	Variable	Description	Type	Version
29	Al_HiSHCirc2	High Suction SuperHeat Circuit 2	Alarm	10.12
30	Al_RetPrb.Active	Return Sensor Failure (Cumulative)	Alarm	10.6
31	Al_SupPrb.Active	Supply Sensor Failure (Cumulative)	Alarm	10.6
32	Al_RemPrb.Active	Remote Sensor Failure (Cumulative)	Alarm	10.6
33	Al_AmbPrb.Active	Outdoor Sensor Failure	Alarm	10.6
34	Al_LPPrb1.Active	Suction Pressure Sensor Circuit 1 Failure	Alarm	10.6
35	Al_LPPrb2.Active	Suction Pressure Sensor Circuit 2 Failure	Alarm	10.6
36	Al_HPPrb1.Active	Discharge Pressure Sensor Circuit 1 Failure	Alarm	10.6
37	Al_HPPrb2.Active	Discharge Pressure Sensor Circuit 2 Failure	Alarm	10.6
38	Al_SuctTPrb1.Active	Suction Temperature Sensor Circuit 1 Failure	Alarm	10.6
39	Al_SuctTPrb2.Active	Suction Temperature Sensor Circuit 2 Failure	Alarm	10.6
40	Al_DscgPrb1.Active	Discharge Temperature Sensor Circuit 1 Failure	Alarm	10.6
41	Al_DscgPrb2.Active	Discharge Temperature Sensor Circuit 2 Failure	Alarm	10.6
42	Al_AlarmEvt.Active	Configurable Alarm	Alarm	10.6
43	Al_CustIn1.Active	C-Input 1	Alarm	10.6
44	Al_CustIn2.Active	C-Input 2	Alarm	10.6
45	Al_CustIn3.Active	C-Input 3	Alarm	10.6
46	Al_CustIn4.Active	C-Input 4	Alarm	10.6
47	Al_CmpLockOutPD.Active	Compressor Lockout (with PumpDown)	Message	10.7
48	Al_CmpLockOut.Active	Compressor Lockout	Message	10.7
49	Al_Cnd1FailEvt.Active	Condenser 1 Failure	Warning	10.6
50	Al_Cnd2FailEvt.Active	Condenser 2 Failure	Warning	10.6
51	Al_CndPmpEvt.Active	Condensing Pump Alarm	Warning	10.6
52	Al_CndPmpLCEvt.Active	Condensing Pump Alarm	Warning	10.6
53	Al_CndPmpSDEvt.Active	Condensing Pump Alarm	Alarm	10.6
54	Al_Fire.Active	Fire Alarm	Alarm	10.6
55	Al_FlowAlrmEvt.Active	Loss of Flow	Warning	10.6
56	Al_FlowALLCEvt.Active	Loss of Flow	Warning	10.6
57	Al_FlowALSDEvt.Active	Loss of Flow	Alarm	10.6
58	Al_HeaterAlrmEvt.Active	Heater Alarm	Alarm	10.6
59	Al_HighCWT1Evt.Active	High CW1 Temperature	Warning	10.6
60	Al_HighCWT2Evt.Active	High CW2 Temperature	Warning	10.6
61	Al_HumProblemEvt.Active	Humidifier Problem	Warning	10.6
62	Al_WarningEvt.Active	Configurable Warning	Warning	10.6
63	Al_WaterAlrmEvt.Active	Water Alarm	Alarm	10.6

Table 5.1 Input Status (continued)

IS	Variable	Description	Type	Version
64	Al_NoPowerEvt.Active	No Power	Warning	1.0.6
65	Al_Smoke.Active	Smoke Alarm	Warning Alarm	1.0.6
66	Al_CloggedFilt.Active	Clogged Filter	Warning	1.0.6
67	Al_OutOfWorkingRangeAl.Active	Stop Due to High Temp	Alarm	1.0.6
68	Al_OutOfWorkingRangeWa.Active	Out Of Working Range	Warning	1.0.6
69	Al_HiRemAirHum.Active	High Remote Humidity	Warning	1.0.6
70	Al_LowRetAirHum.Active	Low Return Humidity	Warning	1.0.6
71	Al_LowRemAirHum.Active	Low Remote Humidity	Warning	1.0.6
72	Al_HiRetAirHum.Active	High Return Humidity	Warning	1.0.6
73	Al_LPCirc1_Wa.Active	Soft Low Pressure Circuit 1 (MTM Only)	Warning	1.0.6
74	---	---	---	---
75	Al_ForceFC.Active	Force FC	Message	1.0.6
76	Al_RetHumPrb.Active	Humidity Return Sensor Failure (MTM Only)	Alarm	1.0.6
77	---	---	---	---
78	---	---	---	---
79	---	---	---	---
80	---	---	---	---
81	Al_UCMissing.Active	UC Missing	Alarm	1.0.6
82	Al_Fan_WHLimit.Active	Conditioner/Fans Working Hours Exceeded	Warning	1.0.6
83	Al_CW_WHLimit.Active	CW1 Valve Working Hours Exceeded	Warning	1.0.6
84	Al_CW2_WHLimit.Active	CW2 Valve Working Hours Exceeded	Warning	1.0.6
85	Al_Cmp1C1_WHLimit.Active	Comp1 Circ1 Working Hours Exceeded	Warning	1.0.6
86	Al_Cmp2C1_WHLimit.Active	Comp2 Circ1 Working Hours Exceeded	Warning	1.0.6
87	Al_Cmp1C2_WHLimit.Active	Comp1 Circ2 Working Hours Exceeded	Warning	1.0.6
88	Al_Cmp2C2_WHLimit.Active	Comp2 Circ2 Working Hours Exceeded	Warning	1.0.6
89	Al_FC_WHLimit.Active	FC Working Hours Exceeded	Warning	1.0.6
90	Al_AirEco_WHLimit.Active	AirEco Working Hours Exceeded	Warning	1.0.6
91	Al_PRE_WHLimit.Active	PRE1 Working Hours Exceeded	Warning	1.0.6
92	Al_PRE2_WHLimit.Active	PRE2 Working Hours Exceeded	Warning	1.0.6
93	Al_Heater_WHLimit.Active	El. Heater1 Working Hours Exceeded	Warning	1.0.6
94	Al_Heater2_WHLimit.Active	El. Heater2 Working Hours Exceeded	Warning	1.0.6
95	Al_HotGW_WHLimit.Active	Hot Water/Gas Working Hours Exceeded	Warning	1.0.6
96	Al_Cond_WHLimit.Active	Condenser Fans1 Working Hours Exceeded	Warning	1.0.6

Table 5.1 Input Status (continued)

IS	Variable	Description	Type	Version
97	Al_Cond2_WHLimit.Active	Condenser Fans2 Working Hours Exceeded	Warning	1.0.6
98	Al_Hum_WHLimit.Active	Humidifier Working Hours Exceeded	Warning	1.0.6
99	Al_DeHum_WHLimit.Active	Dehumidification Working Hours Exceeded	Warning	1.0.6
100	Al_VSD_OOE_Circ1.Active	VSD Circuit 1 Out of Envelope	Alarm	1.0.6
101	Al_VSD_Circ1.Active	VSD Circuit 1 Generic Event	Alarm	1.0.6
102	Al_VSDOffline_Circ1.Active	VSD Circuit 1 Offline	Alarm	1.0.6
103	Al_WarnVSD_Circ1.Active	VSD Circuit 1 Generic Event	Warning	1.0.6
104	Al_VSD_OOE_Circ2.Active	VSD Circuit 2 Out of Envelope	Alarm	1.0.6
105	Al_VSD_Circ2.Active	VSD Circuit 2 Generic Event	Alarm	1.0.6
106	Al_VSDOffline_Circ2.Active	VSD Circuit 2 Offline	Alarm	1.0.6
107	Al_WarnVSD_Circ2.Active	VSD Circuit 2 Generic Event	Warning	1.0.6
108	Al_NetFail.Active	Network Failure	Warning	1.0.6
109	Al_NoConnUnit1.Active	No Connection to Unit 1	Warning	1.0.6
110	---	---	---	---
111	Al_Cnd1Fan.Active	One (or more) Condenser C1 Fan in Alarm	Warning	1.0.6
112	Al_Cnd1FanOffline.Active	One (or more) Condenser C1 Fan Offline	Warning	1.0.6
113	Al_AllCnd1FansOffline.Active	All Condenser C1 Fans Offline	Warning	1.0.6
114	Al_Cnd2Fan.Active	One (or more) Condenser C2 Fan in Alarm	Warning	1.0.6
115	Al_Cnd2FanOffline.Active	One (or more) Condenser C2 Fan Offline	Warning	1.0.6
116	Al_AllCnd2FansOffline.Active	All Condenser C2 Fans Offline	Warning	1.0.6
117	Al_MasterNotAvail	Master Unit Not Available	Warning	1.0.6
118	Al_CPY_Offline.Active	HCB Offline	Warning	1.0.6
119	Al_CPY_ShutDown.Active	HCB Shut Down	Warning	1.0.6
120	Al_EMeter_Offline.Active	Energy Meter Offline	Warning	1.0.6
121	Al_LOP_C1.Active	Low Operating Pressure Circuit 1	Alarm	1.0.6
122	Al_LOP_C2.Active	Low Operating Pressure Circuit 2	Alarm	1.0.6
123	Al_MOP_C2.Active	Maximum Operating Pressure Circuit 2	Alarm	1.0.6
124	Al_MOP_C1.Active	Maximum Operating Pressure Circuit 1	Alarm	1.0.6
125	Al_EEV_Gen_C1.Active	Generic EEV Circuit 1	Alarm	1.0.6
126	Al_EEV_Gen_C2.Active	Generic EEV Circuit 2	Alarm	1.0.6
127	Al_EVD_Offline_C1.Active	EEV Driver Offline Circuit 1	Alarm	1.0.6
128	Al_EVD_Offline_C2.Active	EEV Driver Offline Circuit 2	Alarm	1.0.6
129	Al_Cnd1AllFan.Active	All Condenser C1 Fans in Alarm	Warning	1.0.6
130	Al_Cnd2AllFan.Active	All Condenser C2 Fans in Alarm	Warning	1.0.6
131	Al_VSD_HiDscgT_Circ1.Active	High Discharge Temperature Circuit 1	Alarm	1.0.6

Table 5.1 Input Status (continued)

IS	Variable	Description	Type	Version
132	AL_VSD_HiDscgT_Circ2.Active	High Discharge Temperature Circuit 2	Alarm	10.6
133	AL_DampWrongPos.Active	Wrong Damper Position	Alarm	10.6
134	AL_ReducedEcoAirFlw.Active	Reduced Eco Air Flow	Warning	10.6
135	AL_VSD_StartUpFail_Circ1.Active	VSD Circuit 1 Startup Failure	Alarm	10.6
136	AL_VSD_StartUpFail_Circ2.Active	VSD Circuit 2 Startup Failure	Alarm	10.6
137	AL_LossCW1Flw.Active	Loss of CW1 Flow	Warning	10.6
138	AL_LossCW2Flw.Active	Loss of CW2 Flow	Warning	10.6
139	AL_DeHReqOff_FC.Active	FC Off by Dehum	Message	10.6
140	AL_HumStopFC_1H.Active	FC Stopped for 1 Hour by Hum	Message	10.6
141	AL_DeHumStopFC_1H.Active	FC Stopped for 1 Hour by Dehum	Message	10.6
142	AL_DT3StopFC.Active	FC Stopped for 1 Hour by DT3	Message	10.6
143	AL_DeHLowLim1Lock.Active	Dehum Stop by Low Limit 1	Message	10.6
144	AL_DeHLowLim2Lock.Active	Dehum Stop by Low Limit 2	Message	10.6
145	AL_FCLockout.Active	FC Lockout	Message	10.6
146	AL_SecondSetP.Active	Second Set Point Active	Message	10.6
147	AL_HeatLockout.Active	Heaters Lockout	Message	10.6
148	AL_HumHeatLockout.Active	Humidifier and Heaters Lockout	Message	10.6
149	AL_HumLockout.Active	Humidifier Lockout	Message	10.6
150	AL_StandbyOn.Active	Standby On	Message	10.6
151	AL_CoolFan100.Active	Cool and Fan 100%	Message	10.6
152	AL_UltracapSupply.Active	Ultracap Active	Message	10.6
153	AL_PwrOn.Active	Power On	Message	10.6
154	AL_PwrOff.Active	Power Off	Message	10.6
155	AL_UnitOn.Active	Unit On	Message	10.6
156	---	---	---	---
157	AL_ExpansionOffline.Active	Expansion Board 1 Offline	Alarm	10.6
158	AL_Expansion2Offline.Active	Expansion Board 2 Offline	Alarm	10.6
159	AL_SafeNTCSens.Active	Heater High Temperature Probe Fail	Alarm	10.6
160	AL_OptTempPrb.Active	Optional Probe 1 Fail	Warning	10.6
161	AL_AETempPrb.Active	Air Economizer Probe Fail	Alarm	10.6
162	AL_GlyTempPrb.Active	Glycol Temperature Probe Fail	Alarm	10.6
163	AL_OptTempPrb_2.Active	Optional Probe 2 Fail	Warning	10.6
164	AL_OptTempPrb_3.Active	Optional Probe 3 Fail	Warning	10.6
165	AL_CW_InletPrbFail.Active	CW1 Inlet Probe Fail	Warning	10.6

Table 5.1 Input Status (continued)

IS	Variable	Description	Type	Version
166	Al_CW_OutletPrbFail.Active	CW1 Outlet Probe Fail	Warning	1.0.6
167	Al_CW2_InletPrbFail.Active	CW2 Inlet Probe Fail	Warning	1.0.6
168	Al_CW2_OutletPrbFail.Active	CW2 Outlet Probe Fail	Warning	1.0.6
169	Al_LocStaticP_PrblFail.Active	Local Static Pressure Sensor Fail	Warning	1.0.6
170	Al_SysStaticP_PrblFail.Active	System Static Pressure Sensor Fail	Warning	1.0.6
171	Al_WFlowPrbFail.Active	CW1 Water Flow Sensor Fail	Warning	1.0.6
172	Al_WFlow2PrbFail.Active	CW2 Water Flow Sensor Fail	Warning	1.0.6
173	Al_SysRetPrbFail.Active	Return System Sensor Failure	Warning	1.0.6
174	Al_SysRemPrbFail.Active	Remote System Sensor Failure	Warning	1.0.6
175	Al_CPY.Active	HCB Disable	Warning	1.0.6
176	Al_CW_MBValve1Offline.Active	Mb CW Valve 1 Offline	Alarm	1.0.6
177	Al_CW_MBValve2Offline.Active	Mb CW Valve 2 Offline	Alarm	1.0.6
178	Al_CW_MBValve3Offline.Active	Mb CW Valve 3 Offline	Alarm	1.0.6
179	Al_CW_MBValve4Offline.Active	Mb CW Valve 4 Offline	Alarm	1.0.6
180	Al_CPY_HiConduct.Active	Supply Water High Conductivity	Warning	1.0.6
181	Al_EcoEmrgncyOvrdd.Active	Air Eco Emergency Override	Message	1.0.6
182	Al_Rem1PrbFail.Active	Remote 1 Sensor Failure	Warning	1.0.6
183	Al_Rem2PrbFail.Active	Remote 2 Sensor Failure	Warning	1.0.6
184	Al_Rem3PrbFail.Active	Remote 3 Sensor Failure	Warning	1.0.6
185	Al_Rem4PrbFail.Active	Remote 4 Sensor Failure	Warning	1.0.6
186	Al_Rem5PrbFail.Active	Remote 5 Sensor Failure	Warning	1.0.6
187	Al_Rem6PrbFail.Active	Remote 6 Sensor Failure	Warning	1.0.6
188	Al_Rem7PrbFail.Active	Remote 7 Sensor Failure	Warning	1.0.6
189	Al_Rem8PrbFail.Active	Remote 8 Sensor Failure	Warning	1.0.6
190	Al_Rem9PrbFail.Active	Remote 9 Sensor Failure	Warning	1.0.6
191	Al_Rem10PrbFail.Active	Remote 10 Sensor Failure	Warning	1.0.6
192	Al_CndRefrT1	Condenser Refrigerant Sensor T1 Failure	Alarm	1.0.6
193	Al_EP_Pump1OutT.Active	Pump1 Outlet Temp Sensor Failure	Alarm	1.0.6
194	Al_EP_Pump1InP.Active	Pump1 Inlet Press Sensor Failure	Alarm	1.0.6
195	Al_EP_Pump1OutP.Active	Pump1 Outlet Press Sensor Failure	Alarm	1.0.6
196	Al_CndRefrT2	Condenser Refrigerant Sensor T2 Failure	Alarm	1.0.6
197	Al_EP_Pump2OutT.Active	Pump2 Outlet Temp Sensor Failure	Alarm	1.0.6
198	Al_EP_Pump2InP.Active	Pump2 Inlet Press Sensor Failure	Alarm	1.0.6
199	Al_EP_Pump2OutP.Active	Pump2 Outlet Press Sensor Failure	Alarm	1.0.6

Table 5.1 Input Status (continued)

IS	Variable	Description	Type	Version
200	Al_EP_Pump1Fail.Active	Pump1 Failure	Alarm	10.6
201	Al_EP_Pump2Fail.Active	Pump2 Failure	Alarm	10.6
202	Al_Cond1OutdoorTemp.Active	Condenser 1 Outdoor Temp Sensor Failure	Alarm	10.6
203	Al_Cond2OutdoorTemp.Active	Condenser 2 Outdoor Temp Sensor Failure	Alarm	10.6
204	Al_Expansion3Offline.Active	Expansion Board 3 Offline	Alarm	10.6
205	Al_Expansion4Offline.Active	Expansion Board 4 Offline	Alarm	10.6
206	Al_DisplayOff.Active	Unit Off by Display	Message	10.6
207	Al_RemoteOff.Active	Unit Off by Remote Input	Message	10.6
208	Al_ThreePosOff.Active	Unit Off by 3 Pos Switch	Message	10.6
209	Al_BmsOff.Active	Unit Off by Monitoring	Message	10.6
210	Al_SleepOff.Active	Unit Off by Timer	Message	10.6
211	Al_AlarmOff.Active	Unit Off by Alarm	Message	10.6
212	Al_Standby.Active	Unit Standby Mode	Message	10.6
213	Al_ManualMode.Active	Unit Manual Mode	Message	10.6
214	Al_CndLowAmbThrs2.Active	Very Low Outdoor Temperature	Warning	10.7
215	Al_CndLowAmbThrs3.Active	Very Low Outdoor Temperature	Alarm	10.7
216	Al_EP_LoSHPump1	Low SuperHeat Pump 1	Alarm	10.7
217	Al_EP_HiSHPump1	High SuperHeat Pump 1	Alarm	10.7
218	Al_EP_LoSCPump1	Low SubCool Pump 1	Alarm	10.7
219	Al_EP_LoDPPump1	Low Diff Press Pump 1	Alarm	10.7
220	Al_EP_HiDPPump1	High Diff Press Pump 1	Alarm	10.7
221	Al_EP_LoSHPump2	Low SuperHeat Pump 2	Alarm	10.7
222	Al_EP_HiSHPump2	High SuperHeat Pump 2	Alarm	10.7
223	Al_EP_LoSCPump2	Low SubCool Pump 2	Alarm	10.7
224	Al_EP_LoDPPump2	Low Diff Press Pump 2	Alarm	10.7
225	Al_EP_HiDPPump2	High Diff Press Pump 2	Alarm	10.7
226	Al_EP_Pump1	Pump 1 Alarm	Alarm	10.7
227	Al_EP_Pump2	Pump 2 Alarm	Alarm	10.7
228	Al_EP_StartFailPump1	Startup Failure Pump 1	Alarm	10.7
229	Al_EP_StartFailPump2	Startup Failure Pump 2	Alarm	10.7
230	Al_EP_StartLockPump1	Startup Lock Pump 1	Warning	10.7
231	Al_EP_StartLockPump2	Startup Lock Pump 2	Warning	10.7
232	Al_LowStartPCirc1	Low Start Pressure Circuit 1	Alarm	10.7
233	Al_LowStartPCirc2	Low Start Pressure Circuit 2	Alarm	10.7

Table 5.1 Input Status (continued)

IS	Variable	Description	Type	Version
234	AL_StopOnLPCirc1	Stop On Low Pressure Circuit 1	Alarm	1.0.7
235	AL_StopOnLPCirc2	Stop On Low Pressure Circuit 2	Alarm	1.0.7
236	AL_FreezeProtCirc1	Freeze Protection Circuit 1	Message	1.0.7
237	AL_FreezeProtCirc2	Freeze Protection Circuit 2	Message	1.0.7
238	AL_LowStartPMsgCirc1	Low Start Pressure Circuit 1	Message	1.0.7
239	AL_LowStartPMsgCirc2	Low Start Pressure Circuit 2	Message	1.0.7
240	AL_CapDeratingCirc1	Capacity Derating Circuit 1	Message	1.0.7
241	AL_CapDeratingCirc2	Capacity Derating Circuit 2	Message	1.0.7
242	AL_StaticP_OutOfRange	Static Pressure Out Of Range	Warning	1.0.8
243	AL_EEV1_WHLimit	EEV Circuit 1 Working Hours Exceeded	Warning	1.0.10
244	AL_EEV2_WHLimit	EEV Circuit 2 Working Hours Exceeded	Warning	1.0.10
245	AL_EP_PropLockout	EconoPhase Prop Lockout	Warning	1.0.11
246	AL_SurgeArrester	Surge Arrester Failure	Alarm	1.0.11
247	AL_ClogFiltMbTh1	Clogged Filter Th1	Warning	1.0.11
248	AL_ClogFiltMbTh2	Clogged Filter Th2	Warning	1.0.11
249	AL_ClogFiltMbGeneric	Clogged Filter Error	Warning	1.0.11
250	AL_Ats	ATS Error	Warning	1.0.12
251	AL_AirFlowSensFail	Airflow Sensor Failure	Warning	1.0.12
252	AL_CndMbValve1Offline	Mb Condenser Valve 1 Offline	Alarm	1.0.12
253	AL_CndMbValve2Offline	Mb Condenser Valve 2 Offline	Alarm	1.0.12
254	AL_FcMbValve1Offline	Mb FC Valve 1 Offline	Alarm	1.0.12
255	AL_AuxSenDisconnect	Aux Sensor Disconnected	Warning	1.1.0

5.2 Coils

The following Boolean data points are available on:

- Coils Command 01

Table 5.2 Coil Data Points

Coil	Variable	Description	Access	Version
1001	KeybOnOff	Unit On/Off command	R/W	1.0.6
1002	KeybSysOnOff	System On/Off command	R/W	1.0.6
1003	UserInput_1.Value	Configurable Input 1	R	1.0.6
1004	UserInput_2.Value	Configurable Input 2	R	1.0.6
1005	UserInput_3.Value	Configurable Input 3	R	1.0.6
1006	UserInput_4.Value	Configurable Input 4	R	1.0.6

Table 5.2 Coil Data Points (continued)

Coil	Variable	Description	Access	Version
1007	UserInput_5.Value	Configurable Input 5	R	1.0.6
1008	UserInput_6.Value	Configurable Input 6	R	1.0.6
1009	UserInput_7.Value	Configurable Input 7	R	1.0.6
1010	UserInput_8.Value	Configurable Input 8	R	1.0.6
1011	AirFlowSts	Airflow Status	R	1.0.6
1012	LP_Switch_Circ1.Value	Low Pressure Circ 1 Status	R	1.0.6
1013	HP_Switch_Circ1.Value	High Pressure Circ 1 Status	R	1.0.6
1014	ThCmp1_Circ1.Value	Thermal Protection Compressor 1 Circ 1	R	1.0.6
1015	ThCmp2_Circ1.Value	Thermal Protection Compressor 2 Circ 1	R	1.0.6
1016	LP_Switch_Circ2.Value	Low Pressure Circ 2 Status	R	1.0.6
1017	HP_Switch_Circ2.Value	High Pressure Circ 2 Status	R	1.0.6
1018	ThCmp1_Circ2.Value	Thermal Protection Compressor 1 Circ 2	R	1.0.6
1019	ThCmp2_Circ2.Value	Thermal Protection Compressor 2 Circ 2	R	1.0.6
1020	RemOff.Value	Remote Off	R	1.0.6
1021	ThreeP_Switch_Off.Value	3 Position Switch	R	1.0.6
1022	CF	Clogged Filter	R	1.0.6
1023	Heat.Value	Heater 1	R	1.0.6
1024	Heat_2.Value	Heater 2	R	1.0.6
1025	LowLim1_Lock	Low limit 1	R	1.0.6
1026	LowLim2_Lock	Low limit 2	R	1.0.6
1027	BmsOff	Unit On/Off command by BMS	R/W	1.0.6
1028	AlmResByBms	Alarm Reset by BMS	R/W	1.0.6
1029	GlbAl	Generic Alarm Active	R	1.0.7
1030	GlbWa	Generic Warning Active	R	1.0.7
1031	GlbEvt	Generic Event Active	R	1.0.7
1032	HeartBeat	BMS Heart Beat	R/W	1.0.7
1033	ClnEvt[3]	ATS Power Supply Line in use; 0 = PS1, 1 = PS2	R	1.0.8
1034	ClnEvt[4]	ATS Power Supply 1 Sts; 0 = OK, 1 = NOK	R	1.0.8
1035	ClnEvt[5]	ATS Power Supply 2 Sts; 0 = OK, 1 = NOK	R	1.0.8

5.3 Holding and Input Registers

The following Analog and Integer data points are available on:

- Holding Registers Command 03
- Input Registers Command 04

NOTE: Holding Registers marked as “R” in Access column cannot be written.

Table 5.3 Holding and Input Registers

HR/IR	Variable	Description	Range	Scale	Access	Version
1	Cfg_retSetP	Return Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
2	Cfg_remSetP	Remote Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
3	Cfg_supSetP	Supply Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
4	LLAuto_CtrlSetP	Current Temperature Setpoint (Used by application)	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R	1.0.6
5	Cfg_secondSetP	Second Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
6	Cfg_BMSTempCtrlSetP	Backup Setpoint (Temp)	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
7	Cfg_SupComp_Delta	Compensation Value	-10.0 - 10.0 K / - 18.0 - 18.0F	x10	R/W	1.0.6
8	Cfg_retPB	Return Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	x10	R/W	1.0.6
9	Cfg_remPB	Remote Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	x10	R/W	1.0.6
10	Cfg_supPB	Supply Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	x10	R/W	1.0.6
11	Cfg_retDB	Return Temperature DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	x10	R/W	1.0.6
12	Cfg_remDB	Remote Temperature DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	x10	R/W	1.0.6
13	Cfg_supDB	Supply Temperature DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	x10	R/W	1.0.6
15	Cfg_humDehRelSetP	Relative Humidity Setpoint	19.0 - 80.0 %	x10	R/W	1.0.6
16	Cfg_humDehAbsSetP	Absolute Humidity Setpoint	0.0 - 30.0 g/kg	x10	R/W	1.0.6
17	Cfg_humDehDPSetP	Dew Point Humidity Setpoint	5.0 - 20.0 °C / 41.0 - 68.0 °F	x10	R/W	1.0.6
18	HumSetP_Act	Actual Humidity Setpoint (Used by application)	0.0 - 80.0 % or g/kg or °C	x10	R	1.0.6
19	Cfg_humDehRelPB	Relative Humidity Proportional Band	0.1 - 50.0 %	x10	R/W	1.0.6
20	Cfg_humDehAbsPB	Absolute Humidity Proportional Band	1.0 - 30.0 g/kg	x10	R/W	1.0.6
21	Cfg_humDehDPPB	Dew Point Humidity Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	x10	R/W	1.0.6
22	Cfg_humDehRelDB	Relative Humidity DeadBand	0.0 - 30.0 %	x10	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
23	Cfg_humDehAbsDB	Absolute Humidity DeadBand	0.0 - 30.0 g/kg	x10	R/W	1.0.6
24	Cfg_humDehDPDB	Dew Point Humidity DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	x10	R/W	1.0.6
25	Cfg_evpFanRetSetP	Return Fan Speed Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 F	x10	R/W	1.0.6
26	Cfg_evpFanRemSetP	Remote Fan Speed Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 F	x10	R/W	1.0.6
27	Cfg_evpFanSupSetP	Supply Fan Speed Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
28	Cfg_evpDeltaSetP	Delta Fan Speed Setpoint	1.0 - 20.0 K / 1.8 - 36.0 F	x10	R/W	1.0.6
29	Cfg_evpStaticPSetP	Static Pressure Setpoint	0.0 - 1000.0 Pa	x10	R/W	1.0.6
30	Cfg_evpStaticPDB	Static Pressure DeadBand	2.0 - 100.0 Pa	x10	R/W	1.0.6
31	FanSetP_Act	Current Fan Speed Setpoint (Used by application)	0.0 - 1000.0 °C or K or Pa	x10	R	1.0.6
32	Cfg_dehLowLim1Hyst	Low Limit 1	-9.9 - 9.9 K / -18.8 - 18.8 F	x10	R/W	1.0.6
33	Cfg_dehLowLim2Hyst	Low Limit 2	-9.9 - 9.9 K / -18.8 - 18.8 F	x10	R/W	1.0.6
34	Cfg_cndPCutOffThrs	Condenser Cut-Off	10.0 - 40.0 bar / 145.04 - 580.16 psi	x10	R/W	1.0.6
35	Cfg_cndPSetP[0]	Condenser 1 Setpoint	10.0 - 40.0 bar / 145.04 - 580.16 psi	x10	R/W	1.0.6
36	Cfg_cndPPB[0]	Condenser 1 Proportional Band	1.0 - 20.0 bar / 14.50 - 290.08 psi	x10	R/W	1.0.6
37	Cfg_cndPSetP[1]	Condenser 2 Setpoint	10.0 - 40.0 bar / 145.04 - 580.16 psi	x10	R/W	1.0.6
38	Cfg_cndPPB[1]	Condenser 2 Proportional Band	1.0 - 20.0 bar / 14.50 - 290.08 psi	x10	R/W	1.0.6
39	StaticP.Value	Static Pressure Local Value	-1000.0 - 1000.0 Pa	x10	R	1.0.6
40	TwSensorsMinMaxAvgResult_Glo[19]	Static Pressure System Value	-1000.0 - 1000.0 Pa	x10	R	1.0.6
41	LP_Circ1.Value	Suction Pressure Value Circ 1	0.0 - 50.0 bar / 0.00 - 725.19 psi	x10	R	1.0.6
42	LP_Circ2.Value	Suction Pressure Value Circ 2	0.0 - 50.0 bar / 0.00 - 725.19 psi	x10	R	1.0.6
43	HP_Circ1.Value	Discharge Pressure Value Circ 1	0.0 - 50.0 bar / 0.00 - 725.19 psi	x10	R	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
44	HP_Circ2.Value	Discharge Pressure Value Circ 2	0.0 - 50.0 bar / 0.00 - 725.19 psi	x10	R	1.0.6
45	SuctT_Circ1.Value	Suction Temperature Value Circ 1	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
46	SuctT_Circ2.Value	Suction Temperature Value Circ 2	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
47	DscgT_Circ1.Value	Discharge Temperature Value Circ 1	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
48	DscgT_Circ2.Value	Discharge Temperature Value Circ 2	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
49	RetAirTemp.Value	Return Temperature 1 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
50	RetAirTemp_2.Value	Return Temperature 2 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
51	RetAirTemp_3.Value	Return Temperature 3 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
52	RetAirTemp_4.Value	Return Temperature 4 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
53	RetPrb.Temp.Val	Return Temperature Value (Result)	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
54	RetAirHum.Value	Return Humidity 1 Value	0.0 - 100.0 %	x10	R	1.0.6
55	RetAirHum_2.Value	Return Humidity 2 Value	0.0 - 100.0 %	x10	R	1.0.6
56	RetAirHum_3.Value	Return Humidity 3 Value	0.0 - 100.0 %	x10	R	1.0.6
57	RetAirHum_4.Value	Return Humidity 4 Value	0.0 - 100.0 %	x10	R	1.0.6
58	HumValRet_Act	Return Humidity Value (Result)	0.0 - 100.0 %, °C, g/Kg	x10	R	1.0.6
59	SupAirTemp.Value	Supply Temperature 1 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
60	SupAirTemp_2.Value	Supply Temperature 2 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
61	SupAirTemp_3.Value	Supply Temperature 3 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
62	SupPrb.Temp.Val	Supply Temperature Value (Result)	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
63	FanSafety.Value	Supply Fan Safe Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
64	AmbAirTemp.Value	Outdoor Temperature Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
65	GlycolT.Value	Glycol Temperature Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
66	RemAirTemp.Value	Remote Temperature 1 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
67	RemAirTemp_2.Value	Remote Temperature 2 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
68	RemAirTemp_3.Value	Remote Temperature 3 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
69	RemAirTemp_4.Value	Remote Temperature 4 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
70	RemAirTemp_5.Value	Remote Temperature 5 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
71	RemAirTemp_6.Value	Remote Temperature 6 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
72	RemAirTemp_7.Value	Remote Temperature 7 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
73	RemAirTemp_8.Value	Remote Temperature 8 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
74	RemAirTemp_9.Value	Remote Temperature 9 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
75	RemAirTemp_10.Value	Remote Temperature 10 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
76	RemPrb.Temp.Val	Remote Temperature Value (Result)	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
77	RemAirHum.Value	Remote Humidity 1 Value	0.0 - 100.0 %	x10	R	1.0.6
78	RemAirHum_2.Value	Remote Humidity 2 Value	0.0 - 100.0 %	x10	R	1.0.6
79	RemAirHum_3.Value	Remote Humidity 3 Value	0.0 - 100.0 %	x10	R	1.0.6
80	RemAirHum_4.Value	Remote Humidity 4 Value	0.0 - 100.0 %	x10	R	1.0.6
81	RemAirHum_5.Value	Remote Humidity 5 Value	0.0 - 100.0 %	x10	R	1.0.6
82	RemAirHum_6.Value	Remote Humidity 6 Value	0.0 - 100.0 %	x10	R	1.0.6
83	RemAirHum_7.Value	Remote Humidity 7 Value	0.0 - 100.0 %	x10	R	1.0.6
84	RemAirHum_8.Value	Remote Humidity 8 Value	0.0 - 100.0 %	x10	R	1.0.6
85	RemAirHum_9.Value	Remote Humidity 9 Value	0.0 - 100.0 %	x10	R	1.0.6
86	RemAirHum_10.Value	Remote Humidity 10 Value	0.0 - 100.0 %	x10	R	1.0.6
87	RemPrb.Hum.Val	Remote Humidity Value (Result)	0.0 - 100.0 %	x10	R	1.0.6
88	OptAirTemp.Value	Optional Sensor Temperature 1 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
89	OptAirTemp_2.Value	Optional Sensor Temperature 2 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6
90	OptAirTemp_3.Value	Optional Sensor Temperature 3 Value	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
91	OptAirHum.Value	Optional Sensor Humidity 1 Value	0.0 - 100.0 %	x10	R	1.0.6
92	OptAirHum_2.Value	Optional Sensor Humidity 2 Value	0.0 - 100.0 %	x10	R	1.0.6
93	OptAirHum_3.Value	Optional Sensor Humidity 3 Value	0.0 - 100.0 %	x10	R	1.0.6
94	AirEcoTemp.Value	Air Eco Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
95	AirEcoHum.Value	Air Eco Humidity Value	0.0 - 100.0 %	x10	R	1.0.6
96	EvapInletTemp.Value	Inlet Water Temperature C1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
97	EvapOutletTemp.Value	Outlet Water Temperature C1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
98	EvapInletTemp_Circ2.Value	Inlet Water Temperature C2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
99	EvapOutletTemp_Circ2.Value	Outlet Water Temperature C2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
100	CW_RT_Info.Out.Valve1.FlowRateLS	Water Flow Circ 1 Value (l/s)	-0.00 - 30.00 l/s / 0.00 - 7.93 gps	x100	R	1.0.6
101	CW_RT_Info.Out.Valve2.FlowRateLS	Water Flow Circ 2 Value (l/s)	0.00 - 30.00 l/s / 0.00 - 7.93 gps	x100	R	1.0.6
102	CW_RT_Info.Out.Valve1.CoolLoad	Cool Gross Circ 1 Value	0.0 - 400.0 kW	x10	R	1.0.6
103	CW_RT_Info.Out.Valve2.CoolLoad	Cool Gross Circ 2 Value	0.0 - 400.0 kW	x10	R	1.0.6
104	Tw_TSetP	System Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
105	Tw_HSetP	System Humidity Setpoint	0.0 - 80.0 % or g/kg or °C	x10	R/W	1.0.6
106	Tw_RetT	System Return Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
107	Tw_RetH	System Return Humidity Value	0.0 - 100.0 %	x10	R	1.0.6
108	Tw_SupT	System Supply Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
109	Tw_RemT	System Remote Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	x10	R	1.0.6
110	Tw_RemH	System Remote Humidity Value	0.0 - 100.0 %	x10	R	1.0.6
111	EnMet.VL1_N	Input RMS A-N	0 - 600 V	x10	R	1.0.6
112	EnMet.VL2_N	Input RMS B-N	0 - 600 V	x10	R	1.0.6
113	EnMet.VL3_N	Input RMS C-N	0 - 600 V	x10	R	1.0.6
114	EnMet.VL1_L2	Input RMS A-B	0 - 600 V	x10	R	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
115	EnMet.VL2_L3	Input RMS B-C	0 - 600 V	x10	R	1.0.6
116	EnMet.VL3_L1	Input RMS C-A	0 - 600 V	x10	R	1.0.6
117	EnMet.CL1	Input RMS Current Phase A	0 - 100 A	x10	R	1.0.6
118	EnMet.CL2	Input RMS Current Phase B	0 - 100 A	x10	R	1.0.6
119	EnMet.CL3	Input RMS Current Phase C	0 - 100 A	x10	R	1.0.6
120	EnMet.PwrSum	Instantaneous Power (# Registers 2)	0 - 999999 W	x1	R	1.0.6
122	EnMet.Energy	Energy Consumption (# Registers 2)	0 - 999999999 kWh	x1	R	1.0.6
124	CW_RT_Info.Out.Valve1.FlowRateM3H	Water Flow Circ 1 Value (m3/h)	0.00 - 30.00 m3/h / 0.00 - 1059.44 cfh	x100	R	1.0.6
125	CW_RT_Info.Out.Valve2.FlowRateM3H	Water Flow Circ 2 Value (m3/h)	0.00 - 30.00 m3/h / 0.00 - 1059.44 cfh	x100	R	1.0.6
126	Cfg_tempCtrlType	Temperature Control	0 = Return 1 = Supply 2 = Return + Supply Limit 3 = Remote	x1	R/W	1.0.6
127	Cfg_SupCompType	Compensation Type	0 = No 1 = Return 2 = Remote	x1	R/W	1.0.6
128	Cfg_retTi	Return Integration Time	0 - 900 sec	x1	R/W	1.0.6
129	Cfg_remTi	Remote Integration Time	0 - 900 sec	x1	R/W	1.0.6
130	Cfg_supTi	Supply Integration Time	0 - 900 sec	x1	R/W	1.0.6
131	Cfg_humDehCtrlSens	Humidity Control	2 = Remote 3 = Return	x1	R/W	1.0.6
132	Cfg_humDehCtrlType	Humidity Control Method	0 = Relative 1 = Relative Compensated 2 = Absolute 3 = Dew Point	x1	R/W	1.0.6
133	Cfg_evpFanCtrlType	Fan Speed Control	0 = Return 1 = Supply 2 = Remote 3 = Delta 4 = Static Pressure 5 = Return CW Priority 6 = Fixed 7 = Cooling	x1	R/W	1.0.6
134	Cfg_evpFanAuto	Auto Mode	0 = Disabled 1 = Enabled	x1	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
135	Cfg_evpFanFixSpeed	Fixed Fan Speed	20 - 100 %	x1	R/W	1.0.6
136	Cfg_evpFanStartSpeedVal	Fan Startup Speed	20 - 100 %	x1	R/W	1.0.6
137	Cfg_evpFanStartSpeedDel	Fan Startup Time	0 - 120 sec	x1	R/W	1.0.6
138	Cfg_evpFanShutDSpeedVal	Fan Shutdown Speed	20 - 100 %	x1	R/W	1.0.6
139	Cfg_evpFanShutDSpeedDel	Fan Shutdown Time	0 - 120 sec	x1	R/W	1.0.6
140	Cfg_evpFanMinSpeed	Minimum Speed	20 - 100 %	x1	R/W	1.0.6
141	Cfg_evpFanMaxSpeed	Maximum Speed	30 - 100 %	x1	R/W	1.0.6
142	Cfg_evpFanMinSpeedDx	Minimum DX Speed	30 - 100 %	x1	R/W	1.0.6
143	Cfg_evpFanMinSpeedDeh	Dehumidification Speed	30 - 100 %	x1	R/W	1.0.6
144	Cfg_evpFanMinSpeedHum	Humidification Speed	20 - 100 %	x1	R/W	1.0.6
145	Cfg_evpFanMinSpeedHeat	Heating Speed	50 - 100 %	x1	R/W	1.0.6
146	Cfg_evpFanSpeedNoPow	No Power Speed	20 - 100 %	x1	R/W	1.0.6
147	Cfg_evpFanMinSpeedFail	Control Sensor Failure Speed	20 - 100 %	x1	R/W	1.0.6
148	Cfg_evpFanBackDraftEn	Fan Back Draft Control	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
149	Cfg_evpFanSpeedBackDraft	Fan Back Draft Control Speed	20 - 100 %	x1	R/W	1.0.6
150	Cfg_retHiTEn	High Return Temperature Event Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
151	Cfg_evpFanMinSpeedHiT	High Ret Temp Speed	20 - 100 %	x1	R/W	1.0.6
152	Cfg_evpFanForce100	Modbus High Speed Operation	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
153	Cfg_cw.OpMode	CW Valve Operating Mode	0 = Single 1 = Parallel 2 = Alternate 3 = Cascade	x1	R/W	1.0.6
154	Cfg_cw.Valve2Main	CW Main Valve	0 = 1 1 = 2	x1	R/W	1.0.6
155	Cfg_cw.ValveRotEn	Daily Valve Rotation	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
156	Cfg_cw.ValveRotHour	Rotation Hour	0 - 23	x1	R/W	1.0.6
157	Cfg_cw.LofThr	Loss of Flow at	0 - 100 %	x1	R/W	1.0.6
158	Cfg_cw.StartPos	CW Start Position	0 - 100 %	x1	R/W	1.0.6
159	Cfg_cw.StartDel	CW Start Time	0 - 240 sec	x1	R/W	1.0.6
160	Cfg_CIFuncSel[1]	Configurable Input 1 Setting	See Config. Inputs table	x1	R/W	1.0.6
161	Cfg_CIFuncSel[2]	Configurable Input 2 Setting	See Config. Inputs table	x1	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
162	Cfg_CIFuncSel[3]	Configurable Input 3 Setting	See Config. Inputs table	x1	R/W	1.0.6
163	Cfg_CIFuncSel[4]	Configurable Input 4 Setting	See Config. Inputs table	x1	R/W	1.0.6
164	Cfg_CIFuncSel[5]	Configurable Input 5 Setting	See Config. Inputs table	x1	R/W	1.0.6
165	Cfg_CIFuncSel[6]	Configurable Input 6 Setting	See Config. Inputs table	x1	R/W	1.0.6
166	Cfg_CIFuncSel[7]	Configurable Input 7 Setting	See Config. Inputs table	x1	R/W	1.0.6
167	Cfg_CIFuncSel[8]	Configurable Input 8 Setting	See Config. Inputs table	x1	R/W	1.0.6
168	Cfg_autoRestartEn	Auto Restart Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
169	Cfg_autoRestartDT	Auto Restart Time	0 - 60 sec	x1	R/W	1.0.6
170	Cfg_dehEn	Dehumidification Enable	0 = No 1 = Yes 2 = Yes Stop FC	x1	R/W	1.0.6
171	Cfg_dehLowLimSens	Low Limit Probe	0 = Auto 1 = Return 2 = Supply 3 = Remote	x1	R/W	1.0.6
172	Cfg_almWater_SDEn	Alarm OFF by LWD	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
173	Cfg_almLossAirFlow_SDEn	Alarm OFF by Loss of Airflow	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
174	Cfg_supHiT_SDEn	Alarm OFF by High Supply Temp.	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
175	Cfg_humSteamRate	Humidifier Steam Rate	20 - 100 %	x1	R/W	1.0.6
176	Cfg_retDmpEn	Return Damper Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
177	Cfg_retDmpDT	Return Damper Opening Time	0 - 300 sec	x1	R/W	1.0.6
178	Cfg_cndCtrlType	Condenser Control Type	0 = No 1 = PID Press 2 = I-Variex 3 = MBV 4 = PID Temp	x1	R/W	1.0.6
179	Cfg_cndMinSpeed	Condenser Min Speed/Opening	5 - 100 %	x1	R/W	1.0.6
180	Cfg_cndMaxSpeed	Condenser Max Speed/Opening	5 - 100 %	x1	R/W	1.0.6
181	Cfg_cndPTi[0]	Condenser 1 Integration Time	0 - 900 sec	x1	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
182	Cfg_cndPSetPTyp[0]	Condenser 1 Setpoint Type	0 = Fixed 1 = Env. Modul	x1	R/W	1.0.6
183	Cfg_cndPTi[1]	Condenser 2 Integration Time	0 - 900 sec	x1	R/W	1.0.6
184	Cfg_cndPSetPTyp[1]	Condenser 2 Setpoint Type	0 = Fixed 1 = Env. Modul	x1	R/W	1.0.6
203	Cfg_retHiTThrs	High Return Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
204	Cfg_retLowTEn	Low Return Temperature Event Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
205	Cfg_retLowTThrs	Low Return Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	x1	R/W	1.0.6
206	Cfg_remHiTEn	High Remote Temperature Event Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
207	Cfg_remHiTThrs	High Remote Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
208	Cfg_remLowTEn	Low Remote Temperature Event Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
209	Cfg_remLowTThrs	Low Remote Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
210	Cfg_supHiTEn	High Supply Temperature Event Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
211	Cfg_supHiTThrs	High Supply Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
212	Cfg_supLowTEn	Low Supply Temperature Event Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
213	Cfg_supLowTThrs	Low Supply Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.6
214	Cfg_retHiHumEn	High Return Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
215	Cfg_retHiHumThrsRel	High Return Humidity Event Limit (Relative)	0.0 - 99.0 %	x10	R/W	1.0.6
216	Cfg_retLowHumEn	Low Return Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
217	Cfg_retLowHumThrsRel	Low Return Humidity Event Limit (Relative)	0.0 - 99.0 %	x10	R/W	1.0.6
218	Cfg_remHiHumEn	High Remote Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
219	Cfg_remHiHumThrsRel	High Remote Humidity Event Limit (Relative)	0.0 - 99.0 %	x10	R/W	1.0.6
220	Cfg_remLowHumEn	Low Remote Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	x1	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
221	Cfg_remLowHumThrsRel	Low Remote Humidity Event Limit (Relative)	0.0 - 99.0 %	x10	R/W	1.0.6
222	Cfg_retHiHumThrsAbs	High Return Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	x10	R/W	1.0.6
223	Cfg_retLowHumThrsAbs	Low Return Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	x10	R/W	1.0.6
224	Cfg_remHiHumThrsAbs	High Remote Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	x10	R/W	1.0.6
225	Cfg_remLowHumThrsAbs	Low Remote Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	x10	R/W	1.0.6
226	Cfg_retHiHumThrsDP	High Return Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	x10	R/W	1.0.6
227	Cfg_retLowHumThrsDP	Low Return Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	x10	R/W	1.0.6
228	Cfg_remHiHumThrsDP	High Remote Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	x10	R/W	1.0.6
229	Cfg_remLowHumThrsDP	Low Remote Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	x10	R/W	1.0.6
230	Cfg_AnaOutFuncSel[0]	Analog Output 1 Setting	See Analog Outputs table	x1	R/W	1.0.6
231	Cfg_AnaOutFuncSel[1]	Analog Output 2 Setting	See Analog Outputs table	x1	R/W	1.0.6
232	Cfg_AnaOutFuncSel[2]	Analog Output 3 Setting	See Analog Outputs table	x1	R/W	1.0.6
233	Cfg_AnaOutFuncSel[3]	Analog Output 4 Setting	See Analog Outputs table	x1	R/W	1.0.6
234	Cfg_AnaOutFuncSel[4]	Analog Output 5 Setting	See Analog Outputs table	x1	R/W	1.0.6
235	AnalogOut1.Value	Analog Output 1 Value	0 - 100 %	x1	R	1.0.6
236	AnalogOut2.Value	Analog Output 2 Value	0 - 100 %	x1	R	1.0.6
237	AnalogOut3.Value	Analog Output 3 Value	0 - 100 %	x1	R	1.0.6
238	AnalogOut4.Value	Analog Output 4 Value	0 - 100 %	x1	R	1.0.6
239	AnalogOut5.Value	Analog Output 5 Value	0 - 100 %	x1	R	1.0.6
240	Cfg_retPrbN	Number of Return Probes	0 - 4	x1	R/W	1.0.6
241	Cfg_supTempType	Return Probes Control Mode	0 = Redundancy 1 = Average 2 = Maximum 3 = Minimum	x1	R/W	1.0.6
242	Cfg_supPrbN	Number of Supply Probes	0 - 3	x1	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
243	Cfg_retTempType	Return Control Mode	0 = Redundancy 1 = Average 2 = Maximum 3 = Minimum	x1	R/W	1.0.6
244	Cfg_remPrbN	Number of Remote Probes	0 - 10	x1	R/W	1.0.6
245	Cfg_remTempType	Remote Probes Control Mode	0 = Redundancy 1 = Average 2 = Maximum 3 = Minimum	x1	R/W	1.0.6
246	Cfg_optPrbN	Number of Optional Probes	0 - 3	x1	R/W	1.0.6
247	FanSts_OV[1]	Evaporator Fan 1 Status (Modbus)	See Fan Status table	x1	R	1.0.6
248	FanSts_OV[2]	Evaporator Fan 2 Status (Modbus)	See Fan Status table	x1	R	1.0.6
249	FanSts_OV[3]	Evaporator Fan 3 Status (Modbus)	See Fan Status table	x1	R	1.0.6
250	FanSts_OV[4]	Evaporator Fan 4 Status (Modbus)	See Fan Status table	x1	R	1.0.6
251	FanSts_OV[5]	Evaporator Fan 5 Status (Modbus)	See Fan Status table	x1	R	1.0.6
252	FanSts_OV[6]	Evaporator Fan 6 Status (Modbus)	See Fan Status table	x1	R	1.0.6
253	Cmp1C1_OVSts	Compressor 1 Circ 1 Status	See Compressor Status table	x1	R	1.0.6
254	Cmp1C1Req_Mask	Compressor 1 Circ 1 Request	0 - 100 %	x1	R	1.0.6
255	Cmp2C1_OVSts	Compressor 2 Circ 1 Status	See Compressor Status table	x1	R	1.0.6
256	Cmp2C1Req_Mask	Compressor 2 Circ 1 Request	0 - 100 %	x1	R	1.0.6
257	Cmp1C2_OVSts	Compressor 1 Circ 2 Status	See Compressor Status table	x1	R	1.0.6
258	Cmp1C2Req_Mask	Compressor 1 Circ 2 Request	0 - 100 %	x1	R	1.0.6
259	Cmp2C2_OVSts	Compressor 2 Circ 2 Status	See Compressor Status table	x1	R	1.0.6
260	Cmp2C2Req_Mask	Compressor 2 Circ 2 Request	0 - 100 %	x1	R	1.0.6
261	CW_RT_Info.Out.Valve2.CoolRequest	CW2 Opening Position	0 - 100 %	x1	R	1.0.6
262	Cond1Req	Condenser 1 Request	0 - 100 %	x1	R	1.0.6
263	Cnd1FanSts_OV[1]	Condenser 1 Fan/Valve 1 Status (Modbus)	See Fan Status table	x1	R	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
264	Cnd1FanSts_OV[2]	Condenser 1 Fan/Valve 2 Status (Modbus)	See Fan Status table	x1	R	1.0.6
265	Cnd1FanSts_OV[3]	Condenser 1 Fan/Valve 3 Status (Modbus)	See Fan Status table	x1	R	1.0.6
266	Cnd1FanSts_OV[4]	Condenser 1 Fan/Valve 4 Status (Modbus)	See Fan Status table	x1	R	1.0.6
267	Cond2Req	Condenser 2 Request	0 - 100 %	x1	R	1.0.6
268	Cnd2FanSts_OV[1]	Condenser 2 Fan/Valve 1 Status (Modbus)	See Fan Status table	x1	R	1.0.6
269	Cnd2FanSts_OV[2]	Condenser 2 Fan/Valve 2 Status (Modbus)	See Fan Status table	x1	R	1.0.6
270	Cnd2FanSts_OV[3]	Condenser 2 Fan/Valve 3 Status (Modbus)	See Fan Status table	x1	R	1.0.6
271	Cnd2FanSts_OV[4]	Condenser 2 Fan/Valve 4 Status (Modbus)	See Fan Status table	x1	R	1.0.6
272	HMI_HumStatus	Humidifier Status	1 = Run 2 = Off 3 = Not Used 4 = Alarm	x1	R	1.0.6
273	HMI_DeHumStatus	Dehumidification Status	1 = Run 2 = Off 3 = Disabled	x1	R	1.0.6
274	HeatReq_Mask	Heating Request	0 - 100 %	x1	R	1.0.6
275	CoolingReq_Mask	Cooling Request (DX/CW)	0 - 100 %	x1	R	1.0.6
276	HumReq_Mask	Humidification Request	0 - 100 %	x1	R	1.0.6
277	DeHumReq_Mask	Dehumidification Request	0 - 100 %	x1	R	1.0.6
278	FanReq_Mask	Fan Request	0 - 100 %	x1	R	1.0.6
279	PwrSuplnStatus_Mask	Ultracapacitor/ATS	0 = Not Available 1 = Power Supply A Active 2 = Power Supply B Active 3 = Ultracapacitor Active	x1	R	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
280	UnitStatus	Unit Status	0 = DISPLAY OFF 1 = REMOTE OFF 2 = 3POS OFF 3 = MONIT OFF 4 = TIMER OFF 5 = ALARM OFF 6 = SHUTDOWN DEL 7 = STAND-BY 8 = TR STBY 9 = ALARM STBY 10 = FANBACK 11 = UNIT ON 12 = WARNING ON 13 = ALARM ON 14 = DAMPER OPEN 15 = POWER FAIL 16 = MANUAL 17 = RESTART DELAY	x1	R	1.0.6
281	TwSensorsMinMaxAvgResult_Glo[5]	System Fan Speed Request	0 - 100 %	x1	R	1.0.6
282	TwSensorsMinMaxAvgResult_Glo[6]	System FC Request	0 - 100 %	x1	R	1.0.6
283	TwSensorsMinMaxAvgResult_Glo[7]	System DX/CW Request	0 - 100 %	x1	R	1.0.6
284	TwSensorsMinMaxAvgResult_Glo[8]	System Heating Request	0 - 100 %	x1	R	1.0.6
285	TwSensorsMinMaxAvgResult_Glo[10]	System Humidification Request	0 - 100 %	x1	R	1.0.6
286	TwSensorsMinMaxAvgResult_Glo[9]	System Dehumidification Request	0 - 100 %	x1	R	1.0.6
287	Day	Date Day	1 - 31	x1	R/W	1.0.6
288	Month	Date Month	1 - 12	x1	R/W	1.0.6
289	Year	Date Year	0 - 99	x1	R/W	1.0.6
290	Hour	Time Hour	0 - 23	x1	R/W	1.0.6
291	Minute	Time Minute	0 - 59	x1	R/W	1.0.6
292	Second	Time Second	0 - 59	x1	R/W	1.0.6
294	MTDB_Sync_Common[2]	Teamwork Total Units	1-32	x1	R/W	1.0.6
295	MTDB_Sync_Common[3]	Teamwork Standby Units	0 - 31	x1	R/W	1.0.6
296	MTDB_Sync_Specific[1]	Teamwork Mode	0 = No 1 = Mode 1 Parallel 2 = Mode 2 Independent 3 = Mode 3 Smart Aisle	x1	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
297	MTDB_Sync_Common[13]	Cascade	0 = No 1 = Cooling 2 = Fanspeed	x1	R/W	1.0.6
298	HeatHiTempStopCnt_Res	EI Heater High Supply Temp Counter Reset	0 = Yes 1 = No	x1	R/W	1.0.6
301	Cfg_cndFans_EmergLagT	Condenser Emergency Mode Delay	5 - 120 sec	x1	R/W	1.0.6
302	Cfg_cndFans_EmergSpeed	Condenser Emergency Mode Speed/Opening	0 - 100 %	x1	R/W	1.0.6
303	Cfg_cndFans_EmergEn	Condenser Emergency Mode Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
304	Cfg_evpFans_EmergLagT	Evaporating Fans Emergency Mode Delay	0 - 120 sec	x1	R/W	1.0.6
305	Cfg_evpFans_EmergSpeed	Evaporating Fans Emergency Mode Speed	0 - 100 %	x1	R/W	1.0.6
306	Cfg_evpFans_EmergEn	Evaporating Fans Emergency Mode Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
307	CPYMng_CPY_Curr	Electrode Humidifier Current	0.0 - 50.0 A	x10	R	1.0.6
308	CPYMng_CPY_Conduct	Electrode Humidifier Conductivity	0.0 - 3000.0 μ s	x10	R	1.0.6
309	CPYMng_CPY_SteamProd	Electrode Humidifier Steam Production	0.0 - 15.0 kg/h / 0.00 - 33.07 lb/h	x10	R	1.0.6
310	CPYMng_CPY_State	Electrode Humidifier Cylinder State	0 - 11	x1	R	1.0.6
311	HMI_MTMFC_OvrSts	Air Economizer Status	1 = ON 2 = OFF 8 = Emergency	x1	R	1.0.6
312	Cfg_AirEco.AirEcoType	Air Economizer Type	0 = No 1 = Yes 2 = Remote	x1	R/W	1.0.6
313	Cfg_AirEco.CfStopEn	Stop Air Economizer on Clogged Filter	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
314	Cfg_AirEco.Dt1Type	Air Economizer DT1 Type	0 = Temp 2 = EFC 3 = Set	x1	R/W	1.0.6
315	Cfg_AirEco.Dt1Diff	Air Economizer DT1 Room Ambient Temperature Difference	0.0 - 25.0 K / 0.0 - 45.0 F	x10	R/W	1.0.6
316	Cfg_AirEco.Dt3Enable	Air Economizer DT3 Temperature Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
317	Cfg_AirEco.Dt3Diff	Air Economizer DT3 Room Temperature/Setpoint Difference	0.0 - 25.0 K / 0.0 - 45.0 F	x10	R/W	1.0.6
318	Cfg_AirEco.RedAfEn	Air Economizer Reduced Economizer Airflow Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
319	Cfg_AirEco.EmOvrEn	Air Economizer Emergency Override Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.6
320	CWPwrEst.Val	Power Consumption Calculator	0 - 99999 W	x1	R	1.0.6
321	Cfg_alarmHeartBeatEn	BMS Time-Out Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.7
322	Cfg_alarmHeartBeatDT	BMS Timeout	10 - 7200 sec	x1	R/W	1.0.7
323	FCReq_Mask	Freecooling request	0 - 100 %	x1	R	1.0.7
324	HumValRem_Act	Remote Humidity Value (Result)	0.0 - 100.0 %, °C, g/Kg	x10	R	1.0.7
325	geSelManAuto	Sel Man-Auto	0 = Man 1 = Off 2 = Auto	x1	R	1.0.8
326	geEPSta	PRE Working Mode	0 = Econophase Off 1 = Mixed mode 2 = Full Econophase	x1	R	1.0.8
327	Cfg_StaticPOOR.Enable	Static Pressure Events Enable	0 = Disabled 1 = Enabled	x1	R/W	1.0.8
328	Cfg_StaticPOOR.nLowLimit	Low Static Pressure Event Limit	-1000 - 1000 Pa	x1	R/W	1.0.8
329	Cfg_StaticPOOR.nHiLimit	High Static Pressure Event Limit	-1000 - 1000 Pa	x1	R/W	1.0.8
330	SerialValves_reqVolFlowRateLS	Nominal Vol. Flow Rate (CW)	0.0 - 20.0 l/s / 0.0 - 5.2 gps	x10	R/W	1.0.10
331	gsWH.sDev[1].cHrs	Fan Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
333	gsWH.sDev[2].cHrs	CW1 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
335	gsWH.sDev[3].cHrs	CW2 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
337	gsWH.sDev[4].cHrs	Comp 1 Circ 1 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
339	gsWH.sDev[5].cHrs	Comp 2 Circ 1 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
341	gsWH.sDev[6].cHrs	Comp 1 Circ 2 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
343	gsWH.sDev[7].cHrs	Comp 2 Circ 2 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
345	gsWH.sDev[8].cHrs	EEV Circuit 1 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
347	gsWH.sDev[9].cHrs	EEV Circuit 2 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
349	gsWH.sDev[10].cHrs	FC Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
351	gsWH.sDev[11].cHrs	Air Eco Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
353	gsWH.sDev[12].cHrs	PRE 1 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
355	gsWH.sDev[13].cHrs	PRE 2 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
357	gsWH.sDev[14].cHrs	Condenser 1 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
359	gsWH.sDev[15].cHrs	Condenser 2 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
361	gsWH.sDev[16].cHrs	Humidification Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
363	gsWH.sDev[17].cHrs	Dehumidification Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
365	gsWH.sDev[18].cHrs	Heating 1 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
367	gsWH.sDev[19].cHrs	Heating 2 Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
369	gsWH.sDev[20].cHrs	Hot Gas/Hot Water Working Hours (# Registers 2)	0 - 99999 h	x1	R	1.0.10
371	Cfg_ evpStaticPPB	Pressure Prop Band	2.0 - 100.0 Pa	x10	R	1.0.11
372	gsClogFiltMb.sAct.n1Val	CF Differential Pressure	-500.0 - 500.0 Pa	x10	R	1.0.11
373	Cfg_BMSTempCtrl	BMS Temp. Control	0 = None 1 = Setpoint	x1	R/W	1.0.12
374	Cfg_BMSFanCtrl	BMS Fan Control	0 = None 1 = Setpoint 2 = Speed 3 = Coupled	x1	R/W	1.0.12
375	Cfg_BMSFanCtrlSpeed	Backup Speed	10 - 100 %	x1	R/W	1.0.12

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
376	Cfg_BMSFanCtrlSetP	Backup Setpoint (Fan)	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R/W	1.0.12
377	gsCustAnaln.sStatus.aOutput [1].nValueSlew	Analog Input 1 Value	-999.9 - 999.9	x10	R	1.0.12
378	gsCustAnaln.sStatus.aOutput [2].nValueSlew	Analog Input 2 Value	-999.9 - 999.9	x10	R	1.0.12
379	gsCustAnaln.sStatus.aOutput [3].nValueSlew	Analog Input 3 Value	-999.9 - 999.9	x10	R	1.0.12
380	gsCustAnaln.sStatus.aOutput [4].nValueSlew	Analog Input 4 Value	-999.9 - 999.9	x10	R	1.0.12
381	EP_RT_Info.In.Pump1.InletPress.Value	Pump 1 Inlet Pressure	0.0 - 10.0 bar	x10	R	1.0.12
382	EP_RT_Info.In.Pump2.InletPress.Value	Pump 2 Inlet Pressure	0.0 - 10.0 bar	x10	R	1.0.12
383	gsCndOutdTemp.sAct[1].n1Val	Circuit 1 Outdoor Temperature	-50.0 - 100.0 °C / -58.0 - 212.0 °F	x10	R	1.0.12
384	gsCndOutdTemp.sAct[2].n1Val	Circuit 2 Outdoor Temperature	-50.0 - 100.0 °C / -58.0 - 212.0 °F	x10	R	1.0.12
385	EVD_Circ_Info[0].EEV_PosPerc	EEV 1 Position	0 - 100 %	x1	R	1.0.12
386	EVD_Circ_Info[1].EEV_PosPerc	EEV 2 Position	0 - 100 %	x1	R	1.0.12
387	EP_ModeSelectCfg.nPbSwBackThr	P-Band Switchback Thrs	1 - 80 %	x1	R/W	1.0.12
388	EP_ModeSelectOut.sPump[1].n2Speed	Pump 1 Speed	0 - 100 %	x1	R	1.0.12
389	EP_ModeSelectOut.sPump[2].n2Speed	Pump 2 Speed	0 - 100 %	x1	R	1.0.12
390	gsCndRefrTemp.sAct[1].n1Val	Pump 1 Inlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	x10	R	1.0.12
391	gsCndRefrTemp.sAct[2].n1Val	Pump 2 Inlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	x10	R	1.0.12
392	EP_RT_Info.In.Pump1.OutletTemp.Value	Pump 1 Outlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	x10	R	1.0.12
393	EP_RT_Info.In.Pump2.OutletTemp.Value	Pump 2 Outlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	x10	R	1.0.12
394	EP_ModeSelectOut.sPump[1].fOn	Pump 1 State	0 = Off 1 = On	x1	R	1.0.12
395	EP_ModeSelectOut.sPump[2].fOn	Pump 2 State	0 = Off 1 = On	x1	R	1.0.12
396	EP_ModeSelectOut.ePreModeAct	Operating Mode	0 = Compressor Mode 1 = Mixed Mode 2 = Pump Mode	x1	R	1.0.12
397	gsFluidEco.sStatus.eStatus	Fluid Eco Status	1 = ON 2 = OFF 3 = START	x1	R	1.0.12
398	gsFluidEco.sCfg.fMixEn	Fluid Eco DX+FC	0 = No 1 = Yes	x1	R/W	1.0.12

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
399	gsFluidEco.sCfg.n1FcTempMin	Fluid Eco Lockout FC at	-15.0 - 10.0 °C / 5.0 - 50.0 °F	x10	R/W	1.0.12
400	gsFluidEco.sCfg.glycTempMixMinEn	Fluid Eco Minimum Glycol Enable	0 = No 1 = Yes	x1	R/W	1.0.12
401	gsFluidEco.sCfg.n1GlycTempMixMi	Fluid Eco Minimum Glycol Temperature	0.0 - 20.0 °C / 32.0 - 68.0 °F	x10	R/W	1.0.12
402	gsFluidEco.sCfg.eDt1Type	Fluid Eco DT1 Type	0 = Temp 1 = --- 2 = --- 3 = Set 4 = No	x1	R/W	1.0.12
403	gsFluidEco.sCfg.n1Dt1Diff	Fluid Eco DT1 Value	1.0 - 40.0 K / 1.8 - 72.0 °F	x10	R/W	1.0.12
404	gsFluidEco.sCfg.eDt2Type	Fluid Eco DT2 Type	0 = Temp 1 = --- 2 = Set 3 = No	x1	R/W	1.0.12
405	gsFluidEco.sCfg.n1Dt2Diff	Fluid Eco DT2 Value	1.0 - 20.0 K / 1.8 - 36.0 °F	x10	R/W	1.0.12
406	gsFluidEco.sCfg.eDt3En	Fluid Eco DT3 Enable	0 = No 1 = Yes	x1	R/W	1.0.12
407	gsFluidEco.sCfg.n1Dt3Diff	Fluid Eco DT3 Value	1.0 - 99.9 K / 1.8 - 179.8 °F	x10	R/W	1.0.12
408	gsFluidEco.sCfg.n3MbVlvMaxFlowLs	Nominal Vol. Flow Rate (Fluid Economizer)	0.0 - 20.0 l/s / 0.00 - 5.2 gps	x10	R/W	1.0.12
409	gsCndWater.sCfg.n3MbVlvMaxFlowLs	Nominal Vol. Flow Rate (Water Condenser)	0.0 - 20.0 l/s / 0.00 - 5.2 gps	x10	R/W	1.0.12
410	gsDayLog[1].sHigh.nValue	Daily High Control Temperature	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.12
411	gsDayLog[1].sLow.nValue	Daily Low Control Temperature	-50.0 - 150.0 °C / - 58.0 - 302.0 °F	x10	R	1.0.12
412	gsDayLog[2].sHigh.nValue	Daily High Return Humidity	0.0 - 100.0 %	x10	R	1.0.12
413	gsDayLog[2].sLow.nValue	Daily Low Return Humidity	0.0 - 100.0 %	x10	R	1.0.12
414	gnFlushRate	IR Flush Rate	110 - 500 %	x1	R/W	1.0.12
415	LLAuto_CtrlTemp	Cooling Control Temperature	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R	1.0.12
416	gnCtrlSensVal	Fan Control Temperature	5.0 - 50.0 °C / 41.0 - 122.0 °F	x10	R	1.0.12
417	CW_RT_Info.Out. nSuperSaverReq	Supersaver Signal	0 - 100 %	x1	R	1.0.12

Table 5.3 Holding and Input Registers (continued)

HR/IR	Variable	Description	Range	Scale	Access	Version
418	Cfg.Bms.eUoM	Monitoring System of Measurement	0 = Metric 1 = Imperial	x1	RW	1.1.0
419	CW_RT_Info.Out.Valve1.CoolRequest	CW1 Opening Position	0 - 100 %	x1	R	1.1.0
420	FanSts_OV[7]	Evaporator Fan 7 Status (Modbus)	See Fan Status table	x1	R	1.1.0
421	FanSts_OV[8]	Evaporator Fan 8 Status (Modbus)	See Fan Status table	x1	R	1.1.0

6 BACnet

6.1 BACnet Implementation

The monitoring port features the following BACnet implementation on protocol rev. 1.14:

BACnet Standardized Device Profile: BACnet Application Specific Controller (B-ASC)

Building Blocks Supported:

DS-COV-B DS-RP-A DS-RP-B DS-WP-A DS-WP-B DS-RPM-A DS-RPM-B
 DS-WPM-A DS-WPM-B DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-B

Segmentation Capability:

Able to transmit segmented messages Window Size: 16

Able to receive segmented messages Window Size: 16

Table 6.1 Standard Object Types Supported

Device	Analog Input (AI)
Analog Output (AO)	Analog Value (AV)
Binary Input (BI)	Binary Output (BO)
Binary Value (BV)	MultiState Input (MSI)
MultiState Output (MSO)	MultiState Value (MSV)
Positive Integer Value (PIV)	Integer Value (IV)

Data Link Layer Options:

BACnet IP

BACnet IP, Foreign Device

Character Sets Supported: ISO 10646 (UTF-8)

Network Security Options: Non-secure Device - is capable of operating without BACnet Network Security.

6.2 Binary Input

Table 6.2 Binary Input

BI	Variable	Description	Version
1	AI_retain.Active	Retain Memory Error	1.0.6
2	AI_Err_retain_write.Active	Too Much Retain Writing	1.0.6
3	AI_HeaterHiT.Active	Heater High Temperature Lockout	1.0.6
4	AI_HiRetAirTemp.Active	High Return Temperature	1.0.6
5	AI_HiSupAirTemp.Active	High Supply Temperature	1.0.6
6	AI_HiRemAirTemp.Active	High Remote Temperature	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
7	AI_LowRetAirTemp.Active	Low Return Temperature	1.0.6
8	AI_LowSupAirTemp.Active	Low Supply Temperature	1.0.6
9	AI_LowRemAirTemp.Active	Low Remote Temperature	1.0.6
10	AI_EvpFan.Active	One (or more) Evaporator Fan in Alarm	1.0.6
11	AI_EvpFanOffline.Active	One (or more) Evaporator Fan Offline	1.0.6
12	AI_AllEvpFansOffline.Active	All Evaporator Fans Offline	1.0.6
13	AI_GenFan.Active	Loss of Air Flow	1.0.6
14	---	---	---
15	AI_BmsOffline.Active	BMS Offline	1.0.6
16	AI_LPCirc1.Active	Low Pressure Circuit 1	1.0.6
17	AI_LPCirc2.Active	Low Pressure Circuit 2	1.0.6
18	AI_HPCirc1.Active	High Pressure Circuit 1	1.0.6
19	AI_HPCirc2.Active	High Pressure Circuit 2	1.0.6
20	AI_SoftHPCirc1.Active	Soft High Pressure Circuit 1	1.0.6
21	AI_SoftHPCirc2.Active	Soft High Pressure Circuit 2	1.0.6
22	AI_ThComp1Circ1.Active	Thermal Protection Compressor 1 Circuit 1	1.0.6
23	AI_ThComp2Circ1.Active	Thermal Protection Compressor 2 Circuit 1	1.0.6
24	AI_ThComp1Circ2.Active	Thermal Protection Compressor 1 Circuit 2	1.0.6
25	AI_ThComp2Circ2.Active	Thermal Protection Compressor 2 Circuit 2	1.0.6
26	AI_LowSH_C1.Active	Low Suction SuperHeat Circuit 1	1.0.6
27	AI_LowSH_C2.Active	Low Suction SuperHeat Circuit 2	1.0.6
28	AI_HiSHCirc1	High Suction SuperHeat Circuit 1	1.0.12
29	AI_HiSHCirc2	High Suction SuperHeat Circuit 2	1.0.12
30	AI_RetPrb.Active	Return Sensor Failure (Cumulative)	1.0.6
31	AI_SupPrb.Active	Supply Sensor Failure (Cumulative)	1.0.6
32	AI_RemPrb.Active	Remote Sensor Failure (Cumulative)	1.0.6
33	AI_AmbPrb.Active	Outdoor Sensor Failure	1.0.6
34	AI_LPPrb1.Active	Suction Pressure Sensor Circuit 1 Failure	1.0.6
35	AI_LPPrb2.Active	Suction Pressure Sensor Circuit 2 Failure	1.0.6
36	AI_HPPrb1.Active	Discharge Pressure Sensor Circuit 1 Failure	1.0.6
37	AI_HPPrb2.Active	Discharge Pressure Sensor Circuit 2 Failure	1.0.6
38	AI_SuctTPrb1.Active	Suction Temperature Sensor Circuit 1 Failure	1.0.6
39	AI_SuctTPrb2.Active	Suction Temperature Sensor Circuit 2 Failure	1.0.6
40	AI_DscgPrb1.Active	Discharge Temperature Sensor Circuit 1 Failure	1.0.6
41	AI_DscgPrb2.Active	Discharge Temperature Sensor Circuit 2 Failure	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
42	AI_AlarmEvt.Active	Configurable Alarm	1.0.6
43	AI_CustIn1.Active	C-Input 1	1.0.6
44	AI_CustIn2.Active	C-Input 2	1.0.6
45	AI_CustIn3.Active	C-Input 3	1.0.6
46	AI_CustIn4.Active	C-Input 4	1.0.6
47	AI_CmpLockOutPD.Active	Compressor Lockout (with PumpDown)	1.0.6
48	AI_CmpLockOut.Active	Compressor Lockout	1.0.6
49	AI_Cnd1FailEvt.Active	Condenser 1 Failure	1.0.6
50	AI_Cnd2FailEvt.Active	Condenser 2 Failure	1.0.6
51	AI_CndPmpEvt.Active	Condensing Pump Alarm	1.0.6
52	AI_CndPmpLCEvt.Active	Condensing Pump Alarm	1.0.6
53	AI_CndPmpSDEvt.Active	Condensing Pump Alarm	1.0.6
54	AI_Fire.Active	Fire Alarm	1.0.6
55	AI_FlowAlrmEvt.Active	Loss of Flow	1.0.6
56	AI_FlowALLCEvt.Active	Loss of Flow	1.0.6
57	AI_FlowALSDEvt.Active	Loss of Flow	1.0.6
58	AI_HeaterAlrmEvt.Active	Heater Alarm	1.0.6
59	AI_HighCWT1Evt.Active	High CW1 Temperature	1.0.6
60	AI_HighCWT2Evt.Active	High CW2 Temperature	1.0.6
61	AI_HumProblemEvt.Active	Humidifier Problem	1.0.6
62	AI_WarningEvt.Active	Configurable Warning	1.0.6
63	AI_WaterAlrmEvt.Active	Water Alarm	1.0.6
64	AI_NoPowerEvt.Active	No Power	1.0.6
65	AI_Smoke.Active	Smoke Alarm	1.0.6
66	AI_CloggedFilt.Active	Clogged Filter	1.0.6
67	AI_OutOfWorkingRangeAI.Active	Stop Due to High Temp	1.0.6
68	AI_OutOfWorkingRangeWa.Active	Out Of Working Range	1.0.6
69	AI_HiRemAirHum.Active	High Remote Humidity	1.0.6
70	AI_LowRetAirHum.Active	Low Return Humidity	1.0.6
71	AI_LowRemAirHum.Active	Low Remote Humidity	1.0.6
72	AI_HiRetAirHum.Active	High Return Humidity	1.0.6
73	AI_LPCirc1_Wa.Active	Soft Low Pressure Circuit 1 (MTM Only)	1.0.6
74	---	---	---
75	AI_ForceFC.Active	Force FC	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
76	AI_RetHumPrb.Active	Humidity Return Sensor Failure (MTM Only)	1.0.6
77	---	---	---
78	---	---	---
79	---	---	---
80	---	---	---
81	AI_UCMissing.Active	UC Missing	1.0.6
82	AI_Fan_WHLimit.Active	Conditioner/Fans Working Hours Exceeded	1.0.6
83	AI_CW_WHLimit.Active	CW1 Valve Working Hours Exceeded	1.0.6
84	AI_CW2_WHLimit.Active	CW2 Valve Working Hours Exceeded	1.0.6
85	AI_Cmp1C1_WHLimit.Active	Comp1 Circ1 Working Hours Exceeded	1.0.6
86	AI_Cmp2C1_WHLimit.Active	Comp2 Circ1 Working Hours Exceeded	1.0.6
87	AI_Cmp1C2_WHLimit.Active	Comp1 Circ2 Working Hours Exceeded	1.0.6
88	AI_Cmp2C2_WHLimit.Active	Comp2 Circ2 Working Hours Exceeded	1.0.6
89	AI_FC_WHLimit.Active	FC Working Hours Exceeded	1.0.6
90	AI_AirEco_WHLimit.Active	AirEco Working Hours Exceeded	1.0.6
91	AI_PRE_WHLimit.Active	PRE1 Working Hours Exceeded	1.0.6
92	AI_PRE2_WHLimit.Active	PRE2 Working Hours Exceeded	1.0.6
93	AI_Heater_WHLimit.Active	El. Heater1 Working Hours Exceeded	1.0.6
94	AI_Heater2_WHLimit.Active	El. Heater2 Working Hours Exceeded	1.0.6
95	AI_HotGW_WHLimit.Active	Hot Water/Gas Working Hours Exceeded	1.0.6
96	AI_Cond_WHLimit.Active	Condenser Fans1 Working Hours Exceeded	1.0.6
97	AI_Cond2_WHLimit.Active	Condenser Fans2 Working Hours Exceeded	1.0.6
98	AI_Hum_WHLimit.Active	Humidifier Working Hours Exceeded	1.0.6
99	AI_DeHum_WHLimit.Active	Dehumidification Working Hours Exceeded	1.0.6
100	AI_VSD_OOE_Circ1.Active	VSD Circuit 1 Out of Envelope	1.0.6
101	AI_VSD_Circ1.Active	VSD Circuit 1 Generic Event	1.0.6
102	AI_VSDOffline_Circ1.Active	VSD Circuit 1 Offline	1.0.6
103	AI_WarnVSD_Circ1.Active	VSD Circuit 1 Generic Event	1.0.6
104	AI_VSD_OOE_Circ2.Active	VSD Circuit 2 Out of Envelope	1.0.6
105	AI_VSD_Circ2.Active	VSD Circuit 2 Generic Event	1.0.6
106	AI_VSDOffline_Circ2.Active	VSD Circuit 2 Offline	1.0.6
107	AI_WarnVSD_Circ2.Active	VSD Circuit 2 Generic Event	1.0.6
108	AI_NetFail.Active	Network Failure	1.0.6
109	AI_NoConnUnit1.Active	No Connection to Unit 1	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
110	---	---	---
111	AI_Cnd1Fan.Active	One (or more) Condenser C1 Fan in Alarm	1.0.6
112	AI_Cnd1FanOffline.Active	One (or more) Condenser C1 Fan Offline	1.0.6
113	AI_AllCnd1FansOffline.Active	All Condenser C1 Fans Offline	1.0.6
114	AI_Cnd2Fan.Active	One (or more) Condenser C2 Fan in Alarm	1.0.6
115	AI_Cnd2FanOffline.Active	One (or more) Condenser C2 Fan Offline	1.0.6
116	AI_AllCnd2FansOffline.Active	All Condenser C2 Fans Offline	1.0.6
117	AI_MasterNotAvail	Master Unit Not Available	1.0.6
118	AI_CPY_Offline.Active	HCB Offline	1.0.6
119	AI_CPY_ShutDown.Active	HCB Shut Down	1.0.6
120	AI_EMeter_Offline.Active	Energy Meter Offline	1.0.6
121	AI_LOP_C1.Active	Low Operating Pressure Circuit 1	1.0.6
122	AI_LOP_C2.Active	Low Operating Pressure Circuit 2	1.0.6
123	AI_MOP_C2.Active	Maximum Operating Pressure Circuit 2	1.0.6
124	AI_MOP_C1.Active	Maximum Operating Pressure Circuit 1	1.0.6
125	AI_EEV_Gen_C1.Active	Generic EEV Circuit 1	1.0.6
126	AI_EEV_Gen_C2.Active	Generic EEV Circuit 2	1.0.6
127	AI_EVD_Offline_C1.Active	EEV Driver Offline Circuit 1	1.0.6
128	AI_EVD_Offline_C2.Active	EEV Driver Offline Circuit 2	1.0.6
129	AI_Cnd1AllFan.Active	All Condenser C1 Fans in Alarm	1.0.6
130	AI_Cnd2AllFan.Active	All Condenser C2 Fans in Alarm	1.0.6
131	AI_VSD_HiDscgT_Circ1.Active	High Discharge Temperature Circuit 1	1.0.6
132	AI_VSD_HiDscgT_Circ2.Active	High Discharge Temperature Circuit 2	1.0.6
133	AI_DampWrongPos.Active	Wrong Damper Position	1.0.6
134	AI_ReducedEcoAirFlw.Active	Reduced Eco Air Flow	1.0.6
135	AI_VSD_StartUpFail_Circ1.Active	VSD Circuit 1 Startup Failure	1.0.6
136	AI_VSD_StartUpFail_Circ2.Active	VSD Circuit 2 Startup Failure	1.0.6
137	AI_LossCW1Flw.Active	Loss of CW1 Flow	1.0.6
138	AI_LossCW2Flw.Active	Loss of CW2 Flow	1.0.6
139	AI_DeHReqOff_FC.Active	FC Off by Dehum	1.0.6
140	AI_HumStopFC_1H.Active	FC Stopped for 1 Hour by Hum	1.0.6
141	AI_DeHumStopFC_1H.Active	FC Stopped for 1 Hour by Dehum	1.0.6
142	AI_DT3StopFC.Active	FC Stopped for 1 Hour by DT3	1.0.6
143	AI_DeHLowLim1Lock.Active	Dehum Stop by Low Limit 1	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
144	AI_DeLowLim2Lock.Active	Dehum Stop by Low Limit 2	1.0.6
145	AI_FCLockout.Active	FC Lockout	1.0.6
146	AI_SecondSetP.Active	Second Set Point Active	1.0.6
147	AI_HeatLockout.Active	Heaters Lockout	1.0.6
148	AI_HumHeatLockout.Active	Humidifier and Heaters Lockout	1.0.6
149	AI_HumLockout.Active	Humidifier Lockout	1.0.6
150	AI_StandbyOn.Active	Standby On	1.0.6
151	AI_CoolFan100.Active	Cool and Fan 100%	1.0.6
152	AI_UltracapSupply.Active	Ultracap Active	1.0.6
153	AI_PwrOn.Active	Power On	1.0.6
154	AI_PwrOff.Active	Power Off	1.0.6
155	AI_UnitOn.Active	Unit On	1.0.6
156	---	---	---
157	AI_ExpansionOffline.Active	Expansion Board 1 Offline	1.0.6
158	AI_Expansion2Offline.Active	Expansion Board 2 Offline	1.0.6
159	AI_SafeNTCSens.Active	Heater High Temperature Probe Fail	1.0.6
160	AI_OptTempPrb.Active	Optional Probe 1 Fail	1.0.6
161	AI_AETempPrb.Active	Air Economizer Probe Fail	1.0.6
162	AI_GlyTempPrb.Active	Glycol Temperature Probe Fail	1.0.6
163	AI_OptTempPrb_2.Active	Optional Probe 2 Fail	1.0.6
164	AI_OptTempPrb_3.Active	Optional Probe 3 Fail	1.0.6
165	AI_CW_InletPrbFail.Active	CW1 Inlet Probe Fail	1.0.6
166	AI_CW_OutletPrbFail.Active	CW1 Outlet Probe Fail	1.0.6
167	AI_CW2_InletPrbFail.Active	CW2 Inlet Probe Fail	1.0.6
168	AI_CW2_OutletPrbFail.Active	CW2 Outlet Probe Fail	1.0.6
169	AI_LocStaticP_PrpbFail.Active	Local Static Pressure Sensor Fail	1.0.6
170	AI_SysStaticP_PrpbFail.Active	System Static Pressure Sensor Fail	1.0.6
171	AI_WFlowPrbFail.Active	CW1 Water Flow Sensor Fail	1.0.6
172	AI_WFlow2PrbFail.Active	CW2 Water Flow Sensor Fail	1.0.6
173	AI_SysRetPrbFail.Active	Return System Sensor Failure	1.0.6
174	AI_SysRemPrbFail.Active	Remote System Sensor Failure	1.0.6
175	AI_CPY.Active	HCB Disable	1.0.6
176	AI_CW_MBValve1Offline.Active	Mb CW Valve 1 Offline	1.0.6
177	AI_CW_MBValve2Offline.Active	Mb CW Valve 2 Offline	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
178	AI_CW_MBValve3Offline.Active	Mb CW Valve 3 Offline	1.0.6
179	AI_CW_MBValve4Offline.Active	Mb CW Valve 4 Offline	1.0.6
180	AI_COPY_HiConduct.Active	Supply Water High Conductivity	1.0.6
181	AI_EcoEmrgncyOvrrd.Active	Air Eco Emergency Override	1.0.6
182	AI_Rem1PrbFail.Active	Remote 1 Sensor Failure	1.0.6
183	AI_Rem2PrbFail.Active	Remote 2 Sensor Failure	1.0.6
184	AI_Rem3PrbFail.Active	Remote 3 Sensor Failure	1.0.6
185	AI_Rem4PrbFail.Active	Remote 4 Sensor Failure	1.0.6
186	AI_Rem5PrbFail.Active	Remote 5 Sensor Failure	1.0.6
187	AI_Rem6PrbFail.Active	Remote 6 Sensor Failure	1.0.6
188	AI_Rem7PrbFail.Active	Remote 7 Sensor Failure	1.0.6
189	AI_Rem8PrbFail.Active	Remote 8 Sensor Failure	1.0.6
190	AI_Rem9PrbFail.Active	Remote 9 Sensor Failure	1.0.6
191	AI_Rem10PrbFail.Active	Remote 10 Sensor Failure	1.0.6
192	AI_CndRefrT1	Condenser Refrigerant Sensor T1 Failure	1.0.6
193	AI_EP_Pump1OutT.Active	Pump1 Outlet Temp Sensor Failure	1.0.6
194	AI_EP_Pump1InP.Active	Pump1 Inlet Press Sensor Failure	1.0.6
195	AI_EP_Pump1OutP.Active	Pump1 Outlet Press Sensor Failure	1.0.6
196	AI_CndRefrT2	Condenser Refrigerant Sensor T2 Failure	1.0.6
197	AI_EP_Pump2OutT.Active	Pump2 Outlet Temp Sensor Failure	1.0.6
198	AI_EP_Pump2InP.Active	Pump2 Inlet Press Sensor Failure	1.0.6
199	AI_EP_Pump2OutP.Active	Pump2 Outlet Press Sensor Failure	1.0.6
200	AI_EP_Pump1Fail.Active	Pump1 Failure	1.0.6
201	AI_EP_Pump2Fail.Active	Pump2 Failure	1.0.6
202	AI_Cond1OutdoorTemp.Active	Condenser 1 Outdoor Temp Sensor Failure	1.0.6
203	AI_Cond2OutdoorTemp.Active	Condenser 2 Outdoor Temp Sensor Failure	1.0.6
204	AI_Expansion3Offline.Active	Expansion Board 3 Offline	1.0.6
205	AI_Expansion4Offline.Active	Expansion Board 4 Offline	1.0.6
206	AI_DisplayOff.Active	Unit Off by Display	1.0.6
207	AI_RemoteOff.Active	Unit Off by Remote Input	1.0.6
208	AI_ThreePosOff.Active	Unit Off by 3 Pos Switch	1.0.6
209	AI_BmsOff.Active	Unit Off by Monitoring	1.0.6
210	AI_SleepOff.Active	Unit Off by Timer	1.0.6
211	AI_AlarmOff.Active	Unit Off by Alarm	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
212	AI_Standby.Active	Unit Standby Mode	1.0.6
213	AI_ManualMode.Active	Unit Manual Mode	1.0.7
214	AI_CndLowAmbThrs2.Active	Very Low Outdoor Temperature Warning	1.0.7
215	AI_CndLowAmbThrs3.Active	Very Low Outdoor Temperature Alarm	1.0.7
216	AI_EP_LoSHPump1	Low SuperHeat Pump 1	1.0.7
217	AI_EP_HiSHPump1	High SuperHeat Pump 1	1.0.7
218	AI_EP_LoSCPump1	Low SubCool Pump 1	1.0.7
219	AI_EP_LoDPPump1	Low Diff Press Pump 1	1.0.7
220	AI_EP_HiDPPump1	High Diff Press Pump 1	1.0.7
221	AI_EP_LoSHPump2	Low SuperHeat Pump 2	1.0.7
222	AI_EP_HiSHPump2	High SuperHeat Pump 2	1.0.7
223	AI_EP_LoSCPump2	Low SubCool Pump 2	1.0.7
224	AI_EP_LoDPPump2	Low Diff Press Pump 2	1.0.7
225	AI_EP_HiDPPump2	High Diff Press Pump 2	1.0.7
226	AI_EP_Pump1	Pump 1 Alarm	1.0.7
227	AI_EP_Pump2	Pump 2 Alarm	1.0.7
228	AI_EP_StartFailPump1	Startup Failure Pump 1	1.0.7
229	AI_EP_StartFailPump2	Startup Failure Pump 2	1.0.7
230	AI_EP_StartLockPump1	Startup Lock Pump 1	1.0.7
231	AI_EP_StartLockPump2	Startup Lock Pump 2	1.0.7
232	AI_LowStartPCirc1	Low Start Pressure Circuit 1	1.0.7
233	AI_LowStartPCirc2	Low Start Pressure Circuit 2	1.0.7
234	AI_StopOnLPCirc1	Stop On Low Pressure Circuit 1	1.0.7
235	AI_StopOnLPCirc2	Stop On Low Pressure Circuit 2	1.0.7
236	AI_FreezeProtCirc1	Freeze Protection Circuit 1	1.0.7
237	AI_FreezeProtCirc2	Freeze Protection Circuit 2	1.0.7
238	AI_LowStartPMsgCirc1	Low Start Pressure Circuit 1	1.0.7
239	AI_LowStartPMsgCirc2	Low Start Pressure Circuit 2	1.0.7
240	AI_CapDeratingCirc1	Capacity Derating Circuit 1	1.0.7
241	AI_CapDeratingCirc2	Capacity Derating Circuit 2	1.0.7
242	AI_StaticP_OutOfRange	Static Pressure Out Of Range	1.0.8
243	AI_EEV1_WHLimit	EEV Circuit 1 Working Hours Exceeded	1.0.10
244	AI_EEV2_WHLimit	EEV Circuit 2 Working Hours Exceeded	1.0.10
245	AI_EP_PropLockout	EconoPhase Prop Lockout	1.0.11

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
246	AI_SurgeArrester	Surge Arrester Failure	1.0.11
247	AI_ClogFiltMbTh1	Clogged Filter Th1	1.0.11
248	AI_ClogFiltMbTh2	Clogged Filter Th2	1.0.11
249	AI_ClogFiltMbGeneric	Clogged Filter Error	1.0.11
250	AI_AtS	ATS Error	1.0.12
251	AI_AirFlowSensFail	Airflow Sensor Failure	1.0.12
252	AI_CndMbValve1Offline	Mb Condenser Valve 1 Offline	1.0.12
253	AI_CndMbValve2Offline	Mb Condenser Valve 2 Offline	1.0.12
254	AI_FcMbValve1Offline	Mb FC Valve 1 Offline	1.0.12
255	AI_AuxSenDisconnect	Aux Sensor Disconnected	1.1.0
1000	UserInput_1.Value	Configurable Input 1	1.0.6
1001	UserInput_2.Value	Configurable Input 2	1.0.6
1002	UserInput_3.Value	Configurable Input 3	1.0.6
1003	UserInput_4.Value	Configurable Input 4	1.0.6
1004	UserInput_5.Value	Configurable Input 5	1.0.6
1005	UserInput_6.Value	Configurable Input 6	1.0.6
1006	UserInput_7.Value	Configurable Input 7	1.0.6
1007	UserInput_8.Value	Configurable Input 8	1.0.6
1008	AirFlowSts	Airflow Status	1.0.6
1009	LP_Switch_Circ1.Value	Low Pressure Circ 1 Status	1.0.6
1010	HP_Switch_Circ1.Value	High Pressure Circ 1 Status	1.0.6
1011	ThCmp1_Circ1.Value	Thermal Protection Compressor 1 Circ 1	1.0.6
1012	ThCmp2_Circ1.Value	Thermal Protection Compressor 2 Circ 1	1.0.6
1013	LP_Switch_Circ2.Value	Low Pressure Circ 2 Status	1.0.6
1014	HP_Switch_Circ2.Value	High Pressure Circ 2 Status	1.0.6
1015	ThCmp1_Circ2.Value	Thermal Protection Compressor 1 Circ 2	1.0.6
1016	ThCmp2_Circ2.Value	Thermal Protection Compressor 2 Circ 2	1.0.6
1017	RemOff.Value	Remote Off	1.0.6
1018	ThreeP_Switch_Off.Value	3 Position Switch	1.0.6
1019	CF	Clogged Filter	1.0.6
1020	Heat.Value	Heater 1	1.0.6
1021	Heat_2.Value	Heater 2	1.0.6
1022	LowLim1_Lock	Low limit 1	1.0.6
1023	LowLim2_Lock	Low limit 2	1.0.6

Table 6.2 Binary Input (continued)

BI	Variable	Description	Version
1024	GlbAl	Generic Alarm Active	1.0.7
1025	GlbWa	Generic Warning Active	1.0.7
1026	GlbEvt	Generic Event Active	1.0.7

6.3 Binary Output

Table 6.3 Binary Output

BO	Variable	Description	Range	Version
1	KeybOnOff	Unit On/Off command	0 = Off 1 = On	1.0.6
2	KeybSysOnOff	System On/Off command	0 = Off 1 = On	1.0.6
3	BmsOff	Unit On/Off command by BMS	0 = Off 1 = On	1.0.6
4	AlrmResByBms	Alarm Reset by BMS	0 = No 1 = Yes	1.0.6
5	HeartBeat	BMS Heart Beat	0 = No 1 = Yes	1.0.7
6	Cfg_AirEco.CfStopEn	Stop Air Economizer on Clogged Filter	0 = Disabled 1 = Enabled	1.0.6
7	Cfg_AirEco.Dt3Enable	Air Economizer DT3 Temperature Enable	0 = Disabled 1 = Enabled	1.0.6
8	Cfg_AirEco.EmOvrEn	Air Economizer Emergency Override Enable	0 = Disabled 1 = Enabled	1.0.6
9	Cfg_AirEco.RedAfEn	Air Economizer Reduced Economizer Airflow Enable	0 = Disabled 1 = Enabled	1.0.6
10	Cfg_almLossAirFlow_SDEn	Alarm OFF by Loss of Airflow	0 = Disabled 1 = Enabled	1.0.6
11	Cfg_almWater_SDEn	Alarm OFF by LWD	0 = Disabled 1 = Enabled	1.0.6
12	Cfg_autoRestartEn	Auto Restart Enable	0 = Disabled 1 = Enabled	1.0.6
13	Cfg_cndFans_EmergEn	Condenser Emergency Mode Enable	0 = Disabled 1 = Enabled	1.0.6
14	Cfg_cw.ValveRotEn	Daily Valve Rotation	0 = Disabled 1 = Enabled	1.0.6

Table 6.3 Binary Output (continued)

BO	Variable	Description	Range	Version
15	Cfg_evpFanAuto	Auto Mode	0 = Disabled 1 = Enabled	1.0.6
16	Cfg_evpFanBackDraftEn	Fan Back Draft Control	0 = Disabled 1 = Enabled	1.0.6
17	Cfg_evpFanForce100	Modbus High Speed Operation	0 = Disabled 1 = Enabled	1.0.6
18	Cfg_evpFans_EmergEn	Evaporating Fans Emergency Mode Enable	0 = Disabled 1 = Enabled	1.0.6
19	Cfg_remHiHumEn	High Remote Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	1.0.6
20	Cfg_remHiTEn	High Remote Temperature Event Enable	0 = Disabled 1 = Enabled	1.0.6
21	Cfg_remLowHumEn	Low Remote Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	1.0.6
22	Cfg_remLowTEn	Low Remote Temperature Event Enable	0 = Disabled 1 = Enabled	1.0.6
23	Cfg_retDmpEn	Return Damper Enable	0 = Disabled 1 = Enabled	1.0.6
24	Cfg_retHiHumEn	High Return Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	1.0.6
25	Cfg_retHiTEn	High Return Temperature Event Enable	0 = Disabled 1 = Enabled	1.0.6
26	Cfg_retLowHumEn	Low Return Humidity Event Enable (Relative)	0 = Disabled 1 = Enabled	1.0.6
27	Cfg_retLowTEn	Low Return Temperature Event Enable	0 = Disabled 1 = Enabled	1.0.6
28	Cfg_supHiTEn	High Supply Temperature Event Enable	0 = Disabled 1 = Enabled	1.0.6
29	Cfg_supHiT_SDEn	Alarm OFF by High Supply Temp.	0 = Disabled 1 = Enabled	1.0.6
30	Cfg_supLowTEn	Low Supply Temperature Event Enable	0 = Disabled 1 = Enabled	1.0.6
31	Cfg_almHeartBeatEn	BMS Time-Out Enable	0 = Disabled 1 = Enabled	1.0.7
32	Cfg_StaticPOOR.Enable	Static Pressure Events Enable	0 = Disabled 1 = Enabled	1.0.8

Table 6.3 Binary Output (continued)

BO	Variable	Description	Range	Version
34	gsFluidEco.sCfg.fGlycTempMixMinEn	Fluid Eco Minimum Glycol Enable	0 = No 1 = Yes	1.0.12
35	gsFluidEco.sCfg.eDt3En	Fluid Eco DT3 Enable	0 = No 1 = Yes	1.0.12
36	gsFluidEco.sCfg.fMixEn	Fluid Eco DX+FC	0 = No 1 = Yes	1.0.12
37	Cfg.Bms.eUoM	Monitoring System of Measurement	0 = Metric 1 = Imperial	1.1.0

6.4 Analog Input

Table 6.4 Analog Input

AI	Variable	Description	Range	Version
1	AirEcoHum.Value	Air Eco Humidity Value	0.0 - 100.0 %	1.0.6
2	AirEcoTemp.Value	Air Eco Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
3	AmbAirTemp.Value	Outdoor Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
4	AnalogOut1.Value	Analog Output 1 Value	0 - 100 %	1.0.6
5	AnalogOut2.Value	Analog Output 2 Value	0 - 100 %	1.0.6
6	AnalogOut3.Value	Analog Output 3 Value	0 - 100 %	1.0.6
7	AnalogOut4.Value	Analog Output 4 Value	0 - 100 %	1.0.6
8	AnalogOut5.Value	Analog Output 5 Value	0 - 100 %	1.0.6
9	CPYMng_CPY_Curr	Electrode Humidifier Current	0.0 - 50.0 A	1.0.6
10	CPYMng_CPY_SteamProd	Electrode Humidifier Steam Production	0.0 - 15.0 kg/h / 0.00 - 33.07 lb/h	1.0.6
11	CW_RT_Info.Out.Valve1.CoolLoad	Cool Gross Circ 1 Value	0.0 - 400.0 kW	1.0.6
12	CW_RT_Info.Out.Valve2.CoolLoad	Cool Gross Circ 2 Value	0.0 - 400.0 kW	1.0.6
13	Cond1Req	Condenser 1 Request	0 - 100 %	1.0.6
14	Cond2Req	Condenser 2 Request	0 - 100 %	1.0.6
15	DscgT_Circ1.Value	Discharge Temperature Value Circ 1	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
16	DscgT_Circ2.Value	Discharge Temperature Value Circ 2	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
17	EnMet.CL1	Input RMS Current Phase A	0 - 100 A	1.0.6
18	EnMet.CL2	Input RMS Current Phase B	0 - 100 A	1.0.6
19	EnMet.CL3	Input RMS Current Phase C	0 - 100 A	1.0.6
21	EnMet.PwrSum	Instantaneous Power	0 - 999999 W	1.0.6
22	EnMet.VL1_L2	Input RMS A-B	0 - 600 V	1.0.6
23	EnMet.VL1_N	Input RMS A-N	0 - 600 V	1.0.6

Table 6.4 Analog Input (continued)

AI	Variable	Description	Range	Version
24	EnMet.VL2_L3	Input RMS B-C	0 - 600 V	1.0.6
25	EnMet.VL2_N	Input RMS B-N	0 - 600 V	1.0.6
26	EnMet.VL3_L1	Input RMS C-A	0 - 600 V	1.0.6
27	EnMet.VL3_N	Input RMS C-N	0 - 600 V	1.0.6
28	EvapInletTemp.Value	Inlet Water Temperature C1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
29	EvapInletTemp_Circ2.Value	Inlet Water Temperature C2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
30	EvapOutletTemp.Value	Outlet Water Temperature C1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
31	EvapOutletTemp_Circ2.Value	Outlet Water Temperature C2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
32	FanSafety.Value	Supply Fan Safe Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
33	FanSetP_Act	Current Fan Speed Setpoint (Used by application)	0.0 - 1000.0 °C or K or Pa	1.0.6
34	GlycolT.Value	Glycol Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
35	HP_Circ1.Value	Discharge Pressure Value Circ 1	0.0 - 50.0 bar / 0.00 - 725.19 psi	1.0.6
36	HP_Circ2.Value	Discharge Pressure Value Circ 2	0.0 - 50.0 bar / 0.00 - 725.19 psi	1.0.6
37	HumSetP_Act	Actual Humidity Setpoint (Used by application)	0.0 - 80.0 % or g/kg or °C	1.0.6
38	HumValRet_Act	Return Humidity Value (Result)	0.0 - 100.0 % or g/kg or °C	1.0.6
39	LLAuto_CtrlSetP	Current Temperature Setpoint (Used by application)	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
40	LP_Circ1.Value	Suction Pressure Value Circ 1	0.0 - 50.0 bar / 0.00 - 725.19 psi	1.0.6
41	LP_Circ2.Value	Suction Pressure Value Circ 2	0.0 - 50.0 bar / 0.00 - 725.19 psi	1.0.6
42	OptAirHum.Value	Optional Sensor Humidity 1 Value	0.0 - 100.0 %	1.0.6
43	OptAirHum_2.Value	Optional Sensor Humidity 2 Value	0.0 - 100.0 %	1.0.6
44	OptAirHum_3.Value	Optional Sensor Humidity 3 Value	0.0 - 100.0 %	1.0.6
45	OptAirTemp.Value	Optional Sensor Temperature 1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
46	OptAirTemp_2.Value	Optional Sensor Temperature 2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
47	OptAirTemp_3.Value	Optional Sensor Temperature 3 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
48	RemAirHum.Value	Remote Humidity 1 Value	0.0 - 100.0 %	1.0.6
49	RemAirHum_10.Value	Remote Humidity 10 Value	0.0 - 100.0 %	1.0.6
50	RemAirHum_2.Value	Remote Humidity 2 Value	0.0 - 100.0 %	1.0.6
51	RemAirHum_3.Value	Remote Humidity 3 Value	0.0 - 100.0 %	1.0.6
52	RemAirHum_4.Value	Remote Humidity 4 Value	0.0 - 100.0 %	1.0.6
53	RemAirHum_5.Value	Remote Humidity 5 Value	0.0 - 100.0 %	1.0.6
54	RemAirHum_6.Value	Remote Humidity 6 Value	0.0 - 100.0 %	1.0.6
55	RemAirHum_7.Value	Remote Humidity 7 Value	0.0 - 100.0 %	1.0.6

Table 6.4 Analog Input (continued)

AI	Variable	Description	Range	Version
56	RemAirHum_8.Value	Remote Humidity 8 Value	0.0 - 100.0 %	1.0.6
57	RemAirHum_9.Value	Remote Humidity 9 Value	0.0 - 100.0 %	1.0.6
58	RemAirTemp.Value	Remote Temperature 1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
59	RemAirTemp_10.Value	Remote Temperature 10 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
60	RemAirTemp_2.Value	Remote Temperature 2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
61	RemAirTemp_3.Value	Remote Temperature 3 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
62	RemAirTemp_4.Value	Remote Temperature 4 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
63	RemAirTemp_5.Value	Remote Temperature 5 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
64	RemAirTemp_6.Value	Remote Temperature 6 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
65	RemAirTemp_7.Value	Remote Temperature 7 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
66	RemAirTemp_8.Value	Remote Temperature 8 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
67	RemAirTemp_9.Value	Remote Temperature 9 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
68	RemPrb.Hum.Val	Remote Humidity Value (Result)	0.0 - 100.0 %	1.0.6
69	RemPrb.Temp.Val	Remote Temperature Value (Result)	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
70	RetAirHum.Value	Return Humidity 1 Value	0.0 - 100.0 %	1.0.6
71	RetAirHum_2.Value	Return Humidity 2 Value	0.0 - 100.0 %	1.0.6
72	RetAirHum_3.Value	Return Humidity 3 Value	0.0 - 100.0 %	1.0.6
73	RetAirHum_4.Value	Return Humidity 4 Value	0.0 - 100.0 %	1.0.6
74	RetAirTemp.Value	Return Temperature 1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
75	RetAirTemp_2.Value	Return Temperature 2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
76	RetAirTemp_3.Value	Return Temperature 3 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
77	RetAirTemp_4.Value	Return Temperature 4 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
78	RetPrb.Temp.Val	Return Temperature Value (Result)	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
79	StaticP.Value	Static Pressure Local Value	-1000.0-1000.0 Pa	1.0.6
80	SuctT_Circ1.Value	Suction Temperature Value Circ 1	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
81	SuctT_Circ2.Value	Suction Temperature Value Circ 2	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
82	SupAirTemp.Value	Supply Temperature 1 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
83	SupAirTemp_2.Value	Supply Temperature 2 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
84	SupAirTemp_3.Value	Supply Temperature 3 Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
85	SupPrb.Temp.Val	Supply Temperature Value (Result)	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
86	Tw_RemH	System Remote Humidity Value	0.0 - 100.0 %	1.0.6
87	Tw_RemT	System Remote Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
88	Tw_RetH	System Return Humidity Value	0.0 - 100.0 %	1.0.6
89	Tw_RetT	System Return Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6
90	Tw_SupT	System Supply Temperature Value	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.6

Table 6.4 Analog Input (continued)

AI	Variable	Description	Range	Version
91	CWPwrEst.Val	Power Consumption Calculator	0 - 99999 W	1.0.6
92	HumValRem_Act	Remote Humidity Value (Result)	0.0 - 100.0 % or °C or g/Kg	1.0.7
93	gsClogFiltMb.sAct.n1Val	CF Differential Pressure	-500.0 - 500.0 Pa	1.0.11
94	gsCustAnaln.sStatus.aOutput[1]. nValueSlew	Analog Input 1 Value	-999.9 - 999.9	1.0.12
95	gsCustAnaln.sStatus.aOutput[2]. nValueSlew	Analog Input 2 Value	-999.9 - 999.9	1.0.12
96	gsCustAnaln.sStatus.aOutput[3]. nValueSlew	Analog Input 3 Value	-999.9 - 999.9	1.0.12
97	gsCustAnaln.sStatus.aOutput[4]. nValueSlew	Analog Input 4 Value	-999.9 - 999.9	1.0.12
98	EP_RT_Info.In.Pump1.InletPress.Value	Pump 1 Inlet Pressure	0.0 - 10.0 bar	1.0.12
99	EP_RT_Info.In.Pump2.InletPress.Value	Pump 2 Inlet Pressure	0.0 - 10.0 bar	1.0.12
100	gsCndOutdTemp.sAct[1].n1Val	Circuit 1 Outdoor Temperature	-50.0 - 100.0 °C / -58.0 - 212.0 °F	1.0.12
101	gsCndOutdTemp.sAct[2].n1Val	Circuit 2 Outdoor Temperature	-50.0 - 100.0 °C / -58.0 - 212.0 °F	1.0.12
102	gsCndRefrTemp.sAct[1].n1Val	Pump 1 Inlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	1.0.12
103	gsCndRefrTemp.sAct[2].n1Val	Pump 2 Inlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	1.0.12
104	EP_RT_Info.In.Pump1.OutletTemp.Value	Pump 1 Outlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	1.0.12
105	EP_RT_Info.In.Pump2.OutletTemp.Value	Pump 2 Outlet Temperature	-20.0 - 50.0 °C / -4.0 - 122.0 °F	1.0.12
106	gsDayLog[1].sHigh.nValue	Daily High Control Temperature	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.12
107	gsDayLog[1].sLow.nValue	Daily Low Control Temperature	-50.0 - 150.0 °C / -58.0 - 302.0 °F	1.0.12
108	gsDayLog[2].sHigh.nValue	Daily High Return Humidity	0.0 - 100.0 %	1.0.12
109	gsDayLog[2].sLow.nValue	Daily Low Return Humidity	0.0 - 100.0 %	1.0.12
110	LLAuto_CtrlTemp	Cooling Control Temperature	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.12
111	gnCtrlSensVal	Fan Control Temperature	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.12

6.5 Analog Output

Table 6.5 Analog Output

AO	Variable	Description	Range	Version
1	Cfg_AirEco.Dt1Diff	Air Economizer DT1 Room Ambient Temperature Difference	0.0 - 25.0 K / 0.0 - 45.0 F	1.0.6
2	Cfg_AirEco.Dt3Diff	Air Economizer DT3 Room Temperature/Setpoint Difference	0.0 - 25.0 K / 0.0 - 45.0 F	1.0.6
3	Cfg_SupComp_Delta	Compensation Value	-10.0 - 10.0 K / 18.0 - 18.0 F	1.0.6
4	Cfg_BMSTempCtrlSetP	Backup Setpoint (Temp)	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6

Table 6.5 Analog Output (continued)

AO	Variable	Description	Range	Version
5	Cfg_cndFans_EmergSpeed	Condenser Emergency Mode Speed/Opening	0 - 100%	1.0.6
6	Cfg_cndPCutOffThrs	Condenser Cut-Off	10.0 - 40.0 bar / 145.04 - 580.16 psi	1.0.6
7	Cfg_cndPPB[0]	Condenser 1 Proportional Band	1.0 - 20.0 bar / 14.50 - 290.08 psi	1.0.6
8	Cfg_cndPPB[1]	Condenser 2 Proportional Band	1.0 - 20.0 bar / 14.50 - 290.08 psi	1.0.6
9	Cfg_cndPSetP[0]	Condenser 1 Setpoint	10.0 - 40.0 bar / 145.04 - 580.16 psi	1.0.6
10	Cfg_cndPSetP[1]	Condenser 2 Setpoint	10.0 - 40.0 bar / 145.04 - 580.16 psi	1.0.6
11	Cfg_dehLowLim1Hyst	Low Limit 1	-9.9 - 9.9 K / -18.8 - 18.8 F	1.0.6
12	Cfg_dehLowLim2Hyst	Low Limit 2	-9.9 - 9.9 K / -18.8 - 18.8 F	1.0.6
13	Cfg_evpDeltaSetP	Delta Fan Speed Setpoint	1.0 - 20.0 K / 1.8 - 36.0 F	1.0.6
14	Cfg_evpFanRemSetP	Remote Fan Speed Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
15	Cfg_evpFanRetSetP	Return Fan Speed Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
16	Cfg_evpFanSupSetP	Supply Fan Speed Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
17	Cfg_evpFans_EmergSpeed	Evaporating Fans Emergency Mode Speed	0 - 100 %	1.0.6
18	Cfg_evpStaticPDB	Static Pressure DeadBand	2.0 - 100.0 Pa	1.0.6
19	Cfg_evpStaticPSetP	Static Pressure Setpoint	0.0 - 1000.0 Pa	1.0.6
21	Cfg_humDehAbsDB	Absolute Humidity DeadBand	0.0 - 30.0 g/kg	1.0.6
22	Cfg_humDehAbsPB	Absolute Humidity Proportional Band	1.0 - 30.0 g/kg	1.0.6
23	Cfg_humDehAbsSetP	Absolute Humidity Setpoint	0.0 - 30.0 g/kg	1.0.6
24	Cfg_humDehDPDB	Dew Point Humidity DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	1.0.6
25	Cfg_humDehDPPB	Dew Point Humidity Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	1.0.6
26	Cfg_humDehDPSetP	Dew Point Humidity Setpoint	5.0 - 20.0 °C / 41.0 - 68.0 °F	1.0.6
27	Cfg_humDehRelDB	Relative Humidity DeadBand	0.0 - 30.0 %	1.0.6
28	Cfg_humDehRelPB	Relative Humidity Proportional Band	0.1 - 50.0 %	1.0.6
29	Cfg_humDehRelSetP	Relative Humidity Setpoint	19.0 - 80.0 %	1.0.6
30	Cfg_remDB	Remote Temperature DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	1.0.6
31	Cfg_remHiHumThrsAbs	High Remote Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	1.0.6
32	Cfg_remHiHumThrsDP	High Remote Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	1.0.6
33	Cfg_remHiHumThrsRel	High Remote Humidity Event Limit (Relative)	0.0 - 99.0 %	1.0.6
34	Cfg_remHiTThrs	High Remote Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
35	Cfg_remLowHumThrsAbs	Low Remote Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	1.0.6
36	Cfg_remLowHumThrsDP	Low Remote Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	1.0.6

Table 6.5 Analog Output (continued)

AO	Variable	Description	Range	Version
37	Cfg_remLowHumThrsRel	Low Remote Humidity Event Limit (Relative)	0.0 - 99.0 %	1.0.6
38	Cfg_remLowTThrs	Low Remote Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
39	Cfg_remPB	Remote Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	1.0.6
40	Cfg_remSetP	Remote Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
41	Cfg_retDB	Return Temperature DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	1.0.6
42	Cfg_retHiHumThrsAbs	High Return Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	1.0.6
43	Cfg_retHiHumThrsDP	High Return Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	1.0.6
44	Cfg_retHiHumThrsRel	High Return Humidity Event Limit (Relative)	0.0 - 99.0 %	1.0.6
45	Cfg_retHiTThrs	High Return Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
46	Cfg_retLowHumThrsAbs	Low Return Humidity Event Limit (Absolute)	0.0 - 30.0 g/kg	1.0.6
47	Cfg_retLowHumThrsDP	Low Return Dew Point Event Limit	0.0 - 30.0 °C / 32.0 - 86.0 °F	1.0.6
48	Cfg_retLowHumThrsRel	Low Return Humidity Event Limit (Relative)	0.0 - 99.0 %	1.0.6
49	Cfg_retLowTThrs	Low Return Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
50	Cfg_retPB	Return Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	1.0.6
51	Cfg_retSetP	Return Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
52	Cfg_secondSetP	Second Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
53	Cfg_supDB	Supply Temperature DeadBand	0.0 - 30.0 K / 0.0 - 54.0 F	1.0.6
54	Cfg_supHiTThrs	High Supply Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
55	Cfg_supLowTThrs	Low Supply Temperature Event Limit	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
56	Cfg_supPB	Supply Proportional Band	1.0 - 30.0 K / 1.8 - 54.0 F	1.0.6
57	Cfg_supSetP	Supply Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
58	Tw_HSetP	System Humidity Setpoint	0.0 - 80.0 % or g/kg or °C	1.0.6
59	Tw_TSetP	System Temperature Setpoint	5.0 - 50.0 °C / 41.0 - 122.0 °F	1.0.6
60	SerialValves_reqVolFlowRateLS	Nominal Vol. Flow Rate (CW)	0.0 - 20.0 l/s - / 0.0 - 5.2 gps	1.0.10
61	Cfg_evpStaticPPB	Pressure Prop Band	2.0 - 100.0 Pa	1.0.11
62	Cfg_BMSFanCtrlSetP	Backup Setpoint (Fan)	5.0 - 50.0 °C - / 41.0 - 122.0 °F	1.0.12
63	gsFluidEco.sCfg.n1FcTempMin	Fluid Eco Lockout FC at	-15.0 - 10.0 °C / 5.0 - 50.0 °F	1.0.12
64	gsFluidEco.sCfg.n1GlycTempMixMin	Fluid Eco Minimum Glycol Temperature	0.0 - 20.0 °C / 32.0 - 68.0 °F	1.0.12
65	gsFluidEco.sCfg.n1Dt1Diff	Fluid Eco DT1 Value	1.0 - 40.0 K / 1.8 - 72.0 °F	1.0.12
66	gsFluidEco.sCfg.n1Dt2Diff	Fluid Eco DT2 Value	1.0 - 20.0 K / 1.8 - 36.0 °F	1.0.12
67	gsFluidEco.sCfg.n1Dt3Diff	Fluid Eco DT3 Value	1.0 - 99.9 K / 1.8 - 179.8 °F	1.0.12
68	gsFluidEco.sCfg.n3MbVlvMaxFlowLs	Nominal Vol. Flow Rate (Fluid Economizer)	0.0 - 20.0 l/s / 0.00 - 5.2 gps	1.0.12
69	gsCndWater.sCfg.n3MbVlvMaxFlowLs	Nominal Vol. Flow Rate (Water Condenser)	0.0 - 20.0 l/s / 0.00 - 5.2 gps	1.0.12

6.6 Multistate Input

Table 6.6 Multistate Input

MI	Variable	Description	Range	Version
1	UnitStatus	Unit Status	0 = DISPLAY OFF 1 = REMOTE OFF 2 = 3POS OFF 3 = MONIT OFF 4 = TIMER OFF 5 = ALARM OFF 6 = SHUTDOWN DEL 7 = STAND-BY 8 = TR STBY 9 = ALARM STBY 10 = FANBACK 11 = UNIT ON 12 = WARNING ON 13 = ALARM ON 14 = DAMPER OPEN 15 = POWER FAIL 16 = MANUAL 17 = RESTART DELAY	1.0.6
2	CW_RT_Info.Out.Valve2.CoolRequest	CW2 Opening Position	0 - 100 %	1.0.6
3	Cmp1C1Req_Mask	Compressor 1 Circ 1 Request	0 - 100 %	1.0.6
4	Cmp1C1_OVSts	Compressor 1 Circ 1 Status	See Compressor Status table	1.0.6
5	Cmp1C2Req_Mask	Compressor 1 Circ 2 Request	0 - 100 %	1.0.6
6	Cmp1C2_OVSts	Compressor 1 Circ 2 Status	See Compressor Status table	1.0.6
7	Cmp2C1Req_Mask	Compressor 2 Circ 1 Request	0 - 100 %	1.0.6
8	Cmp2C1_OVSts	Compressor 2 Circ 1 Status	See Compressor Status table	1.0.6
9	Cmp2C2Req_Mask	Compressor 2 Circ 2 Request	0 - 100 %	1.0.6
10	Cmp2C2_OVSts	Compressor 2 Circ 2 Status	See Compressor Status table	1.0.6
11	Cnd1FanSts_OV[1]	Condenser 1 Fan/Valve 1 Status (Modbus)	See Fan Status table	1.0.6
12	Cnd1FanSts_OV[2]	Condenser 1 Fan/Valve 2 Status (Modbus)	See Fan Status table	1.0.6
13	Cnd1FanSts_OV[3]	Condenser 1 Fan/Valve 3 Status (Modbus)	See Fan Status table	1.0.6
14	Cnd1FanSts_OV[4]	Condenser 1 Fan/Valve 4 Status (Modbus)	See Fan Status table	1.0.6
15	Cnd2FanSts_OV[1]	Condenser 2 Fan/Valve 1 Status (Modbus)	See Fan Status table	1.0.6
16	Cnd2FanSts_OV[2]	Condenser 2 Fan/Valve 2 Status (Modbus)	See Fan Status table	1.0.6
17	Cnd2FanSts_OV[3]	Condenser 2 Fan/Valve 3 Status (Modbus)	See Fan Status table	1.0.6
18	Cnd2FanSts_OV[4]	Condenser 2 Fan/Valve 4 Status (Modbus)	See Fan Status table	1.0.6
19	EnMet.Energy	Energy Consumption	0 - 999999999 kWh	1.0.6
20	FanReq_Mask	Fan Request	0 - 100 %	1.0.6
21	FanSts_OV[1]	Evaporator Fan 1 Status (Modbus)	See Fan Status table	1.0.6
22	FanSts_OV[2]	Evaporator Fan 2 Status (Modbus)	See Fan Status table	1.0.6
23	FanSts_OV[3]	Evaporator Fan 3 Status (Modbus)	See Fan Status table	1.0.6

Table 6.6 Multistate Input (continued)

MI	Variable	Description	Range	Version
24	FanSts_OV[4]	Evaporator Fan 4 Status (Modbus)	See Fan Status table	1.0.6
25	FanSts_OV[5]	Evaporator Fan 5 Status (Modbus)	See Fan Status table	1.0.6
26	FanSts_OV[6]	Evaporator Fan 6 Status (Modbus)	See Fan Status table	1.0.6
27	HMI_DeHumStatus	Dehumidification Status	1 = Run 2 = Off 3 = Disabled	1.0.6
28	HMI_HumStatus	Humidifier Status	1 = Run 2 = Off 3 = Not Used 4 = Alarm	1.0.6
29	HMI_MTMFC_OvrSts	Air Economizer Status	1 = ON 2 = OFF 8 = Emergency	1.0.6
30	PwrSuplnStatus_Mask	Ultracapacitor/ATS	0 = Not Available 1 = Power Supply A Active 2 = Power Supply B Active 3 = Ultracapacitor Active	1.0.6
31	ClnEvt[3]	ATS Power Supply Line in use	0 = Power Supply 1 1 = Power Supply 2	1.0.8
32	ClnEvt[4]	ATS Power Supply 1	0 = Power Supply 1 OK 1 = Power Supply 1 NOK	1.0.8
33	ClnEvt[5]	ATS Power Supply 2	0 = Power Supply 2 OK 1 = Power Supply 2 NOK	1.0.8
34	geSelManAuto	Sel Man-Auto	0 = Man 1 = Off 2 = Auto	1.0.8
35	geEPSta	PRE Working Mode	0 = Econophase Off 1 = Mixed mode 2 = Full Econophase	1.0.8
36	CoolingReq_Mask	Cooling Request	0 - 100 %	1.0.6
37	DehumReq_Mask	Dehumidification Request	0 - 100 %	1.0.6
38	HeatReq_Mask	Heating Request	0 - 100 %	1.0.6
39	HumReq_Mask	Humidification Request	0 - 100 %	1.0.6
40	TwSensorsMinMaxAvgResult_Glo[10]	System Humidification Request	0 - 100 %	1.0.6
41	TwSensorsMinMaxAvgResult_Glo[19]	Static Pressure System Value	-1000.0 - 1000.0 Pa	1.0.6
42	TwSensorsMinMaxAvgResult_Glo[5]	System Fan Speed Request	0 - 100 %	1.0.6
43	TwSensorsMinMaxAvgResult_Glo[6]	System FC Request	0 - 100 %	1.0.6
44	TwSensorsMinMaxAvgResult_Glo[7]	System DX Request	0 - 100 %	1.0.6

Table 6.6 Multistate Input (continued)

MI	Variable	Description	Range	Version
45	TwSensorsMinMaxAvgResult_Glo[8]	System Heating Request	0 - 100 %	1.0.6
46	TwSensorsMinMaxAvgResult_Glo[9]	System Dehumidification Request	0 - 100 %	1.0.6
47	CPYMng_CPY_Conduct	Electrode Humidifier Conductivity	0.0 - 3000.0 μ s	1.0.6
48	CPYMng_CPY_State	Electrode Humidifier Cylinder State	0 - 11	1.0.6
49	CW_RT_Info.Out.Valve1.FlowRateLS	Water Flow Circ 1 Value (l/s)	-0.00 - 30.00 l/s / 0.00 - 7.93 gps	1.0.6
50	CW_RT_Info.Out.Valve1.FlowRateM3H	Water Flow Circ 1 Value (m3/h)	0.00 - 30.00 m3/h / 0.00 - 1059.44 cfh	1.0.6
51	CW_RT_Info.Out.Valve2.FlowRateLS	Water Flow Circ 2 Value (l/s)	-0.00 - 30.00 l/s / 0.00 - 7.93 gps	1.0.6
52	CW_RT_Info.Out.Valve2.FlowRateM3H	Water Flow Circ 2 Value (m3/h)	0.00 - 30.00 m3/h / 0.00 - 1059.44 cfh	1.0.6
53	FCReq_Mask	Frecooling request	0 - 100 %	1.0.7
54	gsWH.sDev[1].cHrs	Fan Working Hours	0 - 99999 h	1.0.10
55	gsWH.sDev[2].cHrs	CW1 Working Hours	0 - 99999 h	1.0.10
56	gsWH.sDev[3].cHrs	CW2 Working Hours	0 - 99999 h	1.0.10
57	gsWH.sDev[4].cHrs	Comp 1 Circ 1 Working Hours	0 - 99999 h	1.0.10
58	gsWH.sDev[5].cHrs	Comp 1 Circ 2 Working Hours	0 - 99999 h	1.0.10
59	gsWH.sDev[6].cHrs	Comp 2 Circ 1 Working Hours	0 - 99999 h	1.0.10
60	gsWH.sDev[7].cHrs	Comp 2 Circ 2 Working Hours	0 - 99999 h	1.0.10
61	gsWH.sDev[10].cHrs	FC Working Hours	0 - 99999 h	1.0.10
62	gsWH.sDev[11].cHrs	Air Eco Working Hours	0 - 99999 h	1.0.10
63	gsWH.sDev[12].cHrs	PRE 1 Working Hours	0 - 99999 h	1.0.10
64	gsWH.sDev[13].cHrs	PRE 2 Working Hours	0 - 99999 h	1.0.10
65	gsWH.sDev[14].cHrs	Condenser 1 Working Hours	0 - 99999 h	1.0.10
66	gsWH.sDev[15].cHrs	Condenser 2 Working Hours	0 - 99999 h	1.0.10
67	gsWH.sDev[16].cHrs	Humidification Working Hours	0 - 99999 h	1.0.10
68	gsWH.sDev[17].cHrs	Dehumidification Working Hours	0 - 99999 h	1.0.10
69	gsWH.sDev[18].cHrs	Heating 1 Working Hours	0 - 99999 h	1.0.10
70	gsWH.sDev[19].cHrs	Heating 2 Working Hours	0 - 99999 h	1.0.10
71	gsWH.sDev[20].cHrs	Hot Gas/Hot Water Working Hours	0 - 99999 h	1.0.10
72	gsWH.sDev[8].cHrs	EEV Circuit 1 Working Hours	0 - 99999 h	1.0.10
73	gsWH.sDev[9].cHrs	EEV Circuit 2 Working Hours	0 - 99999 h	1.0.10
74	EVD_Circ_Info[0].EEV_PosPerc	EEV 1 Position	0 - 100 %	1.0.12
75	EVD_Circ_Info[1].EEV_PosPerc	EEV 2 Position	0 - 100 %	1.0.12
76	EP_ModeSelectOut.sPump[1].n2Speed	Pump 1 Speed	0 - 100 %	1.0.12
77	EP_ModeSelectOut.sPump[2].n2Speed	Pump 2 Speed	0 - 100 %	1.0.12
78	EP_ModeSelectOut.sPump[1].fOn	Pump 1 State	0 = Off 1 = On	1.0.12

Table 6.6 Multistate Input (continued)

MI	Variable	Description	Range	Version
79	EP_ModeSelectOut.sPump[2].fOn	Pump 2 State	0 = Off 1 = On	1.0.12
80	EP_ModeSelectOut.ePreModeAct	Operating Mode	0 = Compressor Mode 1 = Mixed Mode 2 = Pump Mode	1.0.12
81	gsFluidEco.sStatus.eStatus	Fluid Eco Status	1 = ON 2 = OFF 3 = START	1.0.12
82	CW_RT_Info.Out.nSuperSaverReq	Supersaver Signal	0 - 100 %	1.0.12
83	CW_RT_Info.Out.Valve1.CoolRequest	CW1 Opening Position	0 - 100 %	1.1.0
84	FanSts_OV[7]	Evaporator Fan 7 Status (Modbus)	See Fan Status table	1.1.0
85	FanSts_OV[8]	Evaporator Fan 8 Status (Modbus)	See Fan Status table	1.1.0

6.7 Multistate Output

Table 6.7 Multistate Output

MO	Variable	Description	Range	Version
1	Cfg_AirEco.AirEcoType	Air Economizer Type	0 = No 1 = Yes 2 = Remote	1.0.6
2	Cfg_AirEco.Dt1Type	Air Economizer DT1 Type	0 = Temp 2 = EFC 3 = Set	1.0.6
3	Cfg_AnaOutFuncSel[0]	Analog Output 1 Setting	See Analog Outputs table	1.0.6
4	Cfg_AnaOutFuncSel[1]	Analog Output 2 Setting	See Analog Outputs table	1.0.6
5	Cfg_AnaOutFuncSel[2]	Analog Output 3 Setting	See Analog Outputs table	1.0.6
6	Cfg_AnaOutFuncSel[3]	Analog Output 4 Setting	See Analog Outputs table	1.0.6
7	Cfg_AnaOutFuncSel[4]	Analog Output 5 Setting	See Analog Outputs table	1.0.6
8	Cfg_CIFuncSel[1]	Configurable Input 1 Setting	See Config. Inputs table	1.0.6
9	Cfg_CIFuncSel[2]	Configurable Input 2 Setting	See Config. Inputs table	1.0.6
10	Cfg_CIFuncSel[3]	Configurable Input 3 Setting	See Config. Inputs table	1.0.6
11	Cfg_CIFuncSel[4]	Configurable Input 4 Setting	See Config. Inputs table	1.0.6
12	Cfg_CIFuncSel[5]	Configurable Input 5 Setting	See Config. Inputs table	1.0.6
13	Cfg_CIFuncSel[6]	Configurable Input 6 Setting	See Config. Inputs table	1.0.6
14	Cfg_CIFuncSel[7]	Configurable Input 7 Setting	See Config. Inputs table	1.0.6
15	Cfg_CIFuncSel[8]	Configurable Input 8 Setting	See Config. Inputs table	1.0.6

Table 6.7 Multistate Output (continued)

MO	Variable	Description	Range	Version
16	Cfg_SupCompType	Compensation Type	0 = No 1 = Return 2 = Remote	1.0.6
17	Cfg_autoRestartDT	Auto Restart Time	0 - 60 sec	1.0.6
18	Cfg_cndCtrlType	Condenser Control Type	0 = No 1 = PID Press 2 = I-Variex 3 = MBV 4 = PID Temp	1.0.6
19	Cfg_cndFans_EmergLagT	Condenser Emergency Mode Delay	5 - 120 sec	1.0.6
20	Cfg_cndMaxSpeed	Condenser Max Speed/Opening	5 - 100 %	1.0.6
21	Cfg_cndMinSpeed	Condenser Min Speed/Opening	5 - 100 %	1.0.6
22	Cfg_cndPSetPTyp[0]	Condenser 1 Setpoint Type	0 = Fixed 1 = Env. Modul	1.0.6
23	Cfg_cndPSetPTyp[1]	Condenser 2 Setpoint Type	0 = Fixed 1 = Env. Modul	1.0.6
24	Cfg_cndPTi[0]	Condenser 1 Integration Time	0 - 900 sec	1.0.6
25	Cfg_cndPTi[1]	Condenser 2 Integration Time	0 - 900 sec	1.0.6
26	Cfg_cw.LofThr	Loss of Flow at	0 - 100 %	1.0.6
27	Cfg_cw.OpMode	CW Valve Operating Mode	0 = Single 1 = Parallel 2 = Alternate 3 = Cascade	1.0.6
28	Cfg_cw.StartDel	CW Start Time	0 - 240 sec	1.0.6
29	Cfg_cw.StartPos	CW Start Position	0 - 100 %	1.0.6
30	Cfg_cw.Valve2Main	CW Main Valve	0 = 1 1 = 2	1.0.6
31	Cfg_cw.ValveRotHour	Rotation Hour	0 - 23	1.0.6
32	Cfg_dehEn	Dehumidification Enable	0 = No 1 = Yes 2 = Yes Stop FC	1.0.6
33	Cfg_dehLowLimSens	Low Limit Probe	0 = Auto 1 = Return 2 = Supply 3 = Remote	1.0.6
34	Cfg_evpFanCtrlType	Fan Speed Control	0 = Return 1 = Supply 2 = Remote 3 = Delta 4 = Static Pressure 5 = Return CW Priority 6 = Fixed 7 = Cooling	1.0.6
35	Cfg_evpFanFixSpeed	Fixed Fan Speed	20 - 100 %	1.0.6

Table 6.7 Multistate Output (continued)

MO	Variable	Description	Range	Version
36	Cfg_evpFanMaxSpeed	Maximum Speed	30 - 100 %	1.0.6
37	Cfg_evpFanMinSpeed	Minimum Speed	20 - 100 %	1.0.6
38	Cfg_evpFanMinSpeedDeh	Dehumidification Speed	30 - 100 %	1.0.6
39	Cfg_evpFanMinSpeedDx	Minimum DX Speed	30 - 100 %	1.0.6
40	Cfg_evpFanMinSpeedFail	Control Sensor Failure Speed	20 - 100 %	1.0.6
41	Cfg_evpFanMinSpeedHeat	Heating Speed	50 - 100 %	1.0.6
42	Cfg_evpFanMinSpeedHiT	High Ret Temp Speed	20 - 100 %	1.0.6
43	Cfg_evpFanMinSpeedHum	Humidification Speed	20 - 100 %	1.0.6
44	Cfg_evpFanShutDSpeedDel	Fan Shutdown Time	0 - 120 sec	1.0.6
45	Cfg_evpFanShutDSpeedVal	Fan Shutdown Speed	20 - 100 %	1.0.6
46	Cfg_evpFanSpeedBackDraft	Fan Back Draft Control Speed	20 - 100 %	1.0.6
47	Cfg_evpFanSpeedNoPow	No Power Speed	20 - 100 %	1.0.6
48	Cfg_evpFanStartSpeedDel	Fan Startup Time	0 - 120 sec	1.0.6
49	Cfg_evpFanStartSpeedVal	Fan Startup Speed	20 - 100 %	1.0.6
50	Cfg_evpFans_EmergLagT	Evaporating Fans Emergency Mode Delay	0 - 120 sec	1.0.6
51	Cfg_humDehCtrlSens	Humidity Control	2 = Remote 3 = Return	1.0.6
52	Cfg_humDehCtrlType	Humidity Control Method	0 = Relative 1 = Relative Compensated 2 = Absolute 3 = Dew Point	1.0.6
53	Cfg_humSteamRate	Humidifier Steam Rate	20 - 100 %	1.0.6
54	Cfg_optPrbN	Number of Optional Probes	0 - 3	1.0.6
55	Cfg_remPrbN	Number of Remote Probes	0 - 10	1.0.6
56	Cfg_remTempType	Remote Probes Control Mode	0 = Redundancy 1 = Average 2 = Maximum 3 = Minimum	1.0.6
57	Cfg_remTi	Remote Integration Time	0 - 900 sec	1.0.6
58	Cfg_retDmpDT	Return Damper Opening Time	0 - 300 sec	1.0.6
59	Cfg_retPrbN	Number of Return Probes	0 - 4	1.0.6
60	Cfg_retTempType	Return Control Mode	0 = Redundancy 1 = Average 2 = Maximum 3 = Minimum	1.0.6
61	Cfg_retTi	Return Integration Time	0 - 900 sec	1.0.6
62	Cfg_supPrbN	Number of Supply Probes	0 - 3	1.0.6

Table 6.7 Multistate Output (continued)

MO	Variable	Description	Range	Version
63	Cfg_supTempType	Return Probes Control Mode	0 = Redundancy 1 = Average 2 = Maximum 3 = Minimum	1.0.6
64	Cfg_supTi	Supply Integration Time	0 - 900 sec	1.0.6
65	Cfg_tempCtrlType	Temperature Control	0 = Return 1 = Supply 2 = Return + Supply Limit 3 = Remote	1.0.6
66	HeatHiTempStopCnt_Res	EI Heater High Supply Temp Counter Reset	0 = Yes 1 = No	1.0.6
67	Second	Time Second	0 - 59	1.0.6
68	Minute	Time Minute	0 - 59	1.0.6
69	Hour	Time Hour	0 - 23	1.0.6
70	Day	Date Day	1 - 31	1.0.6
71	Month	Date Month	1 - 12	1.0.6
72	Year	Date Year	0 - 99	1.0.6
73	Cfg_almHeartBeatDT	BMS Timeout	10 - 7200 sec	1.0.7
74	MTDB_Sync_Common[13]	Cascade	0 = No 1 = Cooling 2 = Fanspeed	1.0.6
75	MTDB_Sync_Common[2]	Teamwork Total Units	1 - 32	1.0.6
76	MTDB_Sync_Common[3]	Teamwork Standby Units	0 - 31	1.0.6
77	MTDB_Sync_Specific[1]	Teamwork Mode	0 = No 1 = Mode 1 Parallel 2 = Mode 2 Independent 3 = Mode 3 Smart Aisle	1.0.6
78	Cfg_StaticPOOR.nLowLimit	Low Static Pressure Event Limit	-1000 - 1000 Pa	1.0.8
79	Cfg_StaticPOOR.nHiLimit	High Static Pressure Event Limit	-1000 - 1000 Pa	1.0.8
80	Cfg_BMSTempCtrl	BMS Temp. Control	0 = None 1 = Setpoint	1.0.12
81	Cfg_BMSFanCtrl	BMS Fan Control	0 = None 1 = Setpoint 2 = Speed 3 = Coupled	1.0.12
82	Cfg_BMSFanCtrlSpeed	Backup Speed	10 - 100 %	1.0.12
83	EP_ModeSelectCfg.nPbSwBackThr	P-Band Switchback Thrs	1 - 80 %	1.0.12

Table 6.7 Multistate Output (continued)

MO	Variable	Description	Range	Version
84	gsFluidEco.sCfg.eDt1Type	Fluid Eco DT1 Type	0 = Temp 1 = --- 2 = --- 3 = Set 4 = No	10.12
85	gsFluidEco.sCfg.eDt2Type	Fluid Eco DT2 Type	0 = Temp 1 = --- 2 = Set 3 = No	10.12
86	gnFlushRate	IR Flush Rate	110 - 500 %	10.12

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7 SNMP

7.1 OID Table

The following OID table is available under the Liebert LIEBERT_GP_REG.MIB MIB in position 32 of ProductSpecific|AcProducts.

Table 7.1 OID

OID	Variable	Description	Version
.136.14.1476.1424.3.321.0	AL_FlowALSDEvt.Active	Loss of Flow	1.0.6
.136.14.1476.1424.3.322.0	AI_AlarmEvt.Active	Configurable Alarm	1.0.6
.136.14.1476.1424.3.323.0	AI_ForceFC.Active	Force FC	1.0.6
.136.14.1476.1424.3.324.0	AI_GenFan.Active	Loss of Air Flow	1.0.6
.136.14.1476.1424.3.325.0	AI_GlyTempPrb.Active	Glycol Temperature Probe Fail	1.0.6
.136.14.1476.1424.3.326.0	AI_HPCirc1.Active	High Pressure Circuit 1	1.0.6
.136.14.1476.1424.3.327.0	AI_HPCirc2.Active	High Pressure Circuit 2	1.0.6
.136.14.1476.1424.3.328.0	AI_HPPrb1.Active	Discharge Pressure Sensor Circuit 1 Failure	1.0.6
.136.14.1476.1424.3.329.0	AI_HPPrb2.Active	Discharge Pressure Sensor Circuit 2 Failure	1.0.6
.136.14.1476.1424.3.3210.0	AI_HeatLockout.Active	Heaters Lockout	1.0.6
.136.14.1476.1424.3.3211.0	AI_Heater2_WHLimit.Active	El. Heater2 Working Hours Exceeded	1.0.6
.136.14.1476.1424.3.3212.0	AI_HeaterAlrmEvt.Active	Heater Alarm	1.0.6
.136.14.1476.1424.3.3213.0	AI_AlarmOff.Active	Unit Off by Alarm	1.0.6
.136.14.1476.1424.3.3214.0	AI_HeaterHiT.Active	Heater High Temperature Lockout	1.0.6
.136.14.1476.1424.3.3215.0	AI_Heater_WHLimit.Active	El. Heater1 Working Hours Exceeded	1.0.6
.136.14.1476.1424.3.3216.0	AI_HiRemAirHum.Active	High Remote Humidity	1.0.6
.136.14.1476.1424.3.3217.0	AI_HiRemAirTemp.Active	High Remote Temperature	1.0.6
.136.14.1476.1424.3.3218.0	AI_HiRetAirHum.Active	High Return Humidity	1.0.6
.136.14.1476.1424.3.3219.0	AI_HiRetAirTemp.Active	High Return Temperature	1.0.6
.136.14.1476.1424.3.3220.0	AI_HiSHCirc1	High Suction SuperHeat Circuit 1	1.0.12
.136.14.1476.1424.3.3221.0	AI_HiSHCirc2	High Suction SuperHeat Circuit 2	1.0.12
.136.14.1476.1424.3.3222.0	AI_HiSupAirTemp.Active	High Supply Temperature	1.0.6
.136.14.1476.1424.3.3223.0	AI_HighCWT1Evt.Active	High CW1 Temperature	1.0.6
.136.14.1476.1424.3.3224.0	AI_AllCnd1FansOffline.Active	All Condenser C1 Fans Offline	1.0.6
.136.14.1476.1424.3.3225.0	AI_HighCWT2Evt.Active	High CW2 Temperature	1.0.6
.136.14.1476.1424.3.3226.0	AI_HotGW_WHLimit.Active	Hot Water/Gas Working Hours Exceeded	1.0.6
.136.14.1476.1424.3.3227.0	AI_HumHeatLockout.Active	Humidifier and Heaters Lockout	1.0.6
.136.14.1476.1424.3.3228.0	AI_HumLockout.Active	Humidifier Lockout	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.13.6.14.1476.1424.3.3229.0	AI_HumProblemEvt.Active	Humidifier Problem	1.0.6
.13.6.14.1476.1424.3.3230.0	AI_HumStopFC_1H.Active	FC Stopped for 1 Hour by Hum	1.0.6
.13.6.14.1476.1424.3.3231.0	AI_Hum_WHLimit.Active	Humidifier Working Hours Exceeded	1.0.6
.13.6.14.1476.1424.3.3232.0	AI_LOP_C1.Active	Low Operating Pressure Circuit 1	1.0.6
.13.6.14.1476.1424.3.3233.0	AI_LOP_C2.Active	Low Operating Pressure Circuit 2	1.0.6
.13.6.14.1476.1424.3.3234.0	AI_LPCirc1.Active	Low Pressure Circuit 1	1.0.6
.13.6.14.1476.1424.3.3235.0	AI_AllCnd2FansOffline.Active	All Condenser C2 Fans Offline	1.0.6
.13.6.14.1476.1424.3.3236.0	AI_LPCirc1_Wa.Active	Soft Low Pressure Circuit 1 (MTM Only)	1.0.6
.13.6.14.1476.1424.3.3237.0	AI_LPCirc2.Active	Low Pressure Circuit 2	1.0.6
.13.6.14.1476.1424.3.3238.0	---	---	---
.13.6.14.1476.1424.3.3239.0	AI_LPPrb1.Active	Suction Pressure Sensor Circuit 1 Failure	1.0.6
.13.6.14.1476.1424.3.3240.0	AI_LPPrb2.Active	Suction Pressure Sensor Circuit 2 Failure	1.0.6
.13.6.14.1476.1424.3.3241.0	---	---	---
.13.6.14.1476.1424.3.3242.0	---	---	---
.13.6.14.1476.1424.3.3243.0	AI_LocStaticP_PrblFail.Active	Local Static Pressure Sensor Fail	1.0.6
.13.6.14.1476.1424.3.3244.0	AI_LossCW1Flw.Active	Loss of CW1 Flow	1.0.6
.13.6.14.1476.1424.3.3245.0	AI_LossCW2Flw.Active	Loss of CW2 Flow	1.0.6
.13.6.14.1476.1424.3.3246.0	AI_AllEvpFansOffline.Active	All Evaporator Fans Offline	1.0.6
.13.6.14.1476.1424.3.3247.0	AI_LowRemAirHum.Active	Low Remote Humidity	1.0.6
.13.6.14.1476.1424.3.3248.0	AI_LowRemAirTemp.Active	Low Remote Temperature	1.0.6
.13.6.14.1476.1424.3.3249.0	AI_LowRetAirHum.Active	Low Return Humidity	1.0.6
.13.6.14.1476.1424.3.3250.0	AI_LowRetAirTemp.Active	Low Return Temperature	1.0.6
.13.6.14.1476.1424.3.3251.0	AI_LowSH_C1.Active	Low Suction SuperHeat Circuit 1	1.0.6
.13.6.14.1476.1424.3.3252.0	AI_LowSH_C2.Active	Low Suction SuperHeat Circuit 2	1.0.6
.13.6.14.1476.1424.3.3253.0	AI_LowSupAirTemp.Active	Low Supply Temperature	1.0.6
.13.6.14.1476.1424.3.3254.0	AI_MOP_C1.Active	Maximum Operating Pressure Circuit 1	1.0.6
.13.6.14.1476.1424.3.3255.0	AI_MOP_C2.Active	Maximum Operating Pressure Circuit 2	1.0.6
.13.6.14.1476.1424.3.3256.0	---	---	---
.13.6.14.1476.1424.3.3257.0	---	---	---
.13.6.14.1476.1424.3.3258.0	---	---	---
.13.6.14.1476.1424.3.3259.0	AI_NetFail.Active	Network Failure	1.0.6
.13.6.14.1476.1424.3.3260.0	AI_NoConnUnit1.Active	No Connection to Unit 1	1.0.6
.13.6.14.1476.1424.3.3261.0	AI_NoPowerEvt.Active	No Power	1.0.6
.13.6.14.1476.1424.3.3262.0	AI_OptTempPrb.Active	Optional Probe 1 Fail	1.0.6
.13.6.14.1476.1424.3.3263.0	AI_OptTempPrb_2.Active	Optional Probe 2 Fail	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.64.0	AI_OptTempPrb_3.Active	Optional Probe 3 Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.65.0	AI_OutOfWorkingRangeAI.Active	Stop Due to High Temp	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.66.0	AI_OutOfWorkingRangeWa.Active	Out Of Working Range	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.67.0	AI_PRE2_WHLimit.Active	PRE2 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.68.0	AI_AmbPrb.Active	Outdoor Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.69.0	AI_PRE_WHLimit.Active	PRE1 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.70.0	AI_PwrOff.Active	Power Off	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.71.0	AI_PwrOn.Active	Power On	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.72.0	AI_ReducedEcoAirFlw.Active	Reduced Eco Air Flow	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.73.0	AI_Rem10PrbFail.Active	Remote 10 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.74.0	AI_Rem1PrbFail.Active	Remote 1 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.75.0	AI_Rem2PrbFail.Active	Remote 2 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.76.0	AI_Rem3PrbFail.Active	Remote 3 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.77.0	AI_Rem4PrbFail.Active	Remote 4 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.78.0	AI_Rem5PrbFail.Active	Remote 5 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.79.0	AI_BmsOff.Active	Unit Off by Monitoring	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.80.0	AI_Rem6PrbFail.Active	Remote 6 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.81.0	AI_Rem7PrbFail.Active	Remote 7 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.82.0	AI_Rem8PrbFail.Active	Remote 8 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.83.0	AI_Rem9PrbFail.Active	Remote 9 Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.84.0	---	---	---
.1.3.6.1.4.1.476.1.42.4.3.32.85.0	AI_RemPrb.Active	Remote Sensor Failure (Cumulative)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.86.0	AI_RemoteOff.Active	Unit Off by Remote Input	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.87.0	AI_RetHumPrb.Active	Humidity Return Sensor Failure (MTM Only)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.88.0	AI_RetPrb.Active	Return Sensor Failure (Cumulative)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.89.0	AI_SafeNTCSens.Active	Heater High Temperature Probe Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.90.0	AI_BmsOffline.Active	BMS Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.91.0	AI_SecondSetP.Active	Second Set Point Active	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.92.0	AI_SleepOff.Active	Unit Off by Timer	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.93.0	AI_Smoke.Active	Smoke Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.94.0	AI_SoftHPCirc1.Active	Soft High Pressure Circuit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.95.0	AI_SoftHPCirc2.Active	Soft High Pressure Circuit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.96.0	AI_Standby.Active	Unit Standby Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.97.0	AI_StandbyOn.Active	Standby On	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.98.0	AI_SuctTPrb1.Active	Suction Temperature Sensor Circuit 1 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.99.0	AI_SuctTPrb2.Active	Suction Temperature Sensor Circuit 2 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.100.0	AI_SupPrb.Active	Supply Sensor Failure (Cumulative)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.101.0	AI_CPY.Active	HCB Disable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.102.0	AI_SysRemPrbFail.Active	Remote System Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.103.0	AI_SysRetPrbFail.Active	Return System Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.104.0	AI_SysStaticP_PrbFail.Active	System Static Pressure Sensor Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.105.0	AI_ThComp1Circ1.Active	Thermal Protection Compressor 1 Circuit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.106.0	AI_ThComp1Circ2.Active	Thermal Protection Compressor 1 Circuit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.107.0	AI_ThComp2Circ1.Active	Thermal Protection Compressor 2 Circuit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.108.0	AI_ThComp2Circ2.Active	Thermal Protection Compressor 2 Circuit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.109.0	AI_ThreePosOff.Active	Unit Off by 3 Pos Switch	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.110.0	AI_UCMissing.Active	UC Missing	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.111.0	AI_UltracapSupply.Active	Ultracap Active	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.112.0	AI_CPY_HiConduct.Active	Supply Water High Conductivity	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.113.0	---	---	---
.1.3.6.1.4.1.476.1.42.4.3.32.114.0	AI_UnitOn.Active	Unit On	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.115.0	AI_VSDOffline_Circ1.Active	VSD Circuit 1 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.116.0	AI_VSDOffline_Circ2.Active	VSD Circuit 2 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.117.0	AI_VSD_Circ1.Active	VSD Circuit 1 Generic Event	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.118.0	AI_VSD_Circ2.Active	VSD Circuit 2 Generic Event	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.119.0	AI_VSD_HiDscgT_Circ1.Active	High Discharge Temperature Circuit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.120.0	AI_VSD_HiDscgT_Circ2.Active	High Discharge Temperature Circuit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.121.0	AI_VSD_OOE_Circ1.Active	VSD Circuit 1 Out of Envelope	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.122.0	AI_VSD_OOE_Circ2.Active	VSD Circuit 2 Out of Envelope	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.123.0	AI_CPY_Offline.Active	HCB Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.124.0	AI_VSD_StartUpFail_Circ1.Active	VSD Circuit 1 Startup Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.125.0	AI_VSD_StartUpFail_Circ2.Active	VSD Circuit 2 Startup Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.126.0	AI_WFlow2PrbFail.Active	CW2 Water Flow Sensor Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.127.0	AI_WFlowPrbFail.Active	CW1 Water Flow Sensor Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.128.0	AI_WarnVSD_Circ1.Active	VSD Circuit 1 Generic Event	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.129.0	AI_WarnVSD_Circ2.Active	VSD Circuit 2 Generic Event	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.130.0	AI_WarningEvt.Active	Configurable Warning	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.131.0	AI_WaterAlrmEvt.Active	Water Alarm	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.132.0	AI_retain.Active	Retain Memory Error	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.133.0	AlrmResByBms	Alarm Reset by BMS	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.134.0	AI_CPY_ShutDown.Active	HCB Shut Down	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.135.0	AI_CW2_InletPrbFail.Active	CW2 Inlet Probe Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.136.0	BmsOff	Unit On/Off command by BMS	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.137.0	CF	Clogged Filter	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.138.0	AI_CW2_OutletPrbFail.Active	CW2 Outlet Probe Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.139.0	AI_CW2_WHLimit.Active	CW2 Valve Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.140.0	AI_CW_InletPrbFail.Active	CW1 Inlet Probe Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.141.0	AI_CW_MBValve1Offline.Active	Mb CW Valve 1 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.142.0	AI_CW_MBValve2Offline.Active	Mb CW Valve 2 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.143.0	AI_CW_MBValve3Offline.Active	Mb CW Valve 3 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.144.0	AI_CW_MBValve4Offline.Active	Mb CW Valve 4 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.145.0	AI_CW_OutletPrbFail.Active	CW1 Outlet Probe Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.146.0	AI_CW_WHLimit.Active	CW1 Valve Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.147.0	AI_CloggedFilt.Active	Clogged Filter	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.148.0	AI_Cmp1C1_WHLimit.Active	Comp1 Circ1 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.149.0	AI_Cmp1C2_WHLimit.Active	Comp1 Circ2 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.150.0	AI_Cmp2C1_WHLimit.Active	Comp2 Circ1 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.151.0	AI_Cmp2C2_WHLimit.Active	Comp2 Circ2 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.152.0	AI_CmpLockOut.Active	---	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.153.0	AI_CmpLockOutPD.Active	---	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.154.0	AI_Cnd1AllFan.Active	All Condenser C1 Fans in Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.155.0	AI_Cnd1FailEvt.Active	Condenser 1 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.156.0	AI_Cnd1Fan.Active	One (or more) Condenser C1 Fan in Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.157.0	AI_Cnd1FanOffline.Active	One (or more) Condenser C1 Fan Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.158.0	AI_Cnd2AllFan.Active	All Condenser C2 Fans in Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.159.0	AI_Cnd2FailEvt.Active	Condenser 2 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.160.0	AI_Cnd2Fan.Active	One (or more) Condenser C2 Fan in Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.161.0	AI_Cnd2FanOffline.Active	One (or more) Condenser C2 Fan Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.162.0	AI_CndPmpEvt.Active	Condensing Pump Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.163.0	AI_CndPmpLCEvt.Active	Condensing Pump Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.164.0	AI_CndPmpSEvt.Active	Condensing Pump Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.165.0	AI_Cond1OutdoorTemp.Active	Condenser 1 Outdoor Temp Sensor Failure	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.166.0	AI_Cond2OutdoorTemp.Active	Condenser 2 Outdoor Temp Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.167.0	AI_Cond2_WHLimit.Active	Condenser Fans2 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.168.0	---	---	---
.1.3.6.1.4.1.476.1.42.4.3.32.169.0	HP_Switch_Circ1.Value	High Pressure Circ 1 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.170.0	HP_Switch_Circ2.Value	High Pressure Circ 2 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.171.0	Heat.Value	Heater 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.172.0	AI_Cond_WHLimit.Active	Condenser Fans1 Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.173.0	Heat_2.Value	Heater 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.174.0	AI_CoolFan100.Active	Cool and Fan 100%	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.175.0	KeybOnOff	Unit On/Off command	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.176.0	KeybSysOnOff	System On/Off command	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.177.0	AI_CustIn1.Active	C-Input 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.178.0	LP_Switch_Circ1.Value	Low Pressure Circ 1 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.179.0	LP_Switch_Circ2.Value	Low Pressure Circ 2 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.180.0	LowLim1_Lock	Low limit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.181.0	LowLim2_Lock	Low limit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.182.0	AI_CustIn2.Active	C-Input 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.183.0	OFFLINE	#N/A	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.184.0	AI_CustIn3.Active	C-Input 3	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.185.0	AI_CustIn4.Active	C-Input 4	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.186.0	AI_DT3StopFC.Active	FC Stopped for 1 Hour by DT3	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.187.0	AI_DampWrongPos.Active	Wrong Damper Position	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.188.0	AI_DehtLowLim1Lock.Active	Dehum Stop by Low Limit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.189.0	RemOff.Value	Remote Off	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.190.0	AI_DehtLowLim2Lock.Active	Dehum Stop by Low Limit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.191.0	AI_DehtReqOff_FC.Active	FC Off by Dehum	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.192.0	AI_DehtumStopFC_1H.Active	FC Stopped for 1 Hour by Dehum	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.193.0	AI_Dehtum_WHLimit.Active	Dehumidification Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.194.0	ThCmp1_Circ1.Value	Thermal Protection Compressor 1 Circ 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.195.0	ThCmp1_Circ2.Value	Thermal Protection Compressor 1 Circ 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.196.0	ThCmp2_Circ1.Value	Thermal Protection Compressor 2 Circ 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.197.0	ThCmp2_Circ2.Value	Thermal Protection Compressor 2 Circ 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.198.0	ThreeP_Switch_Off.Value	3 Position Switch	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.199.0	AI_DisplayOff.Active	Unit Off by Display	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.200.0	AI_DscgPrb1.Active	Discharge Temperature Sensor Circuit 1 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.201.0	AirFlowSts	Airflow Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.202.0	AI_DscgPrb2.Active	Discharge Temperature Sensor Circuit 2 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.203.0	UserInput_1.Value	Configurable Input 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.204.0	UserInput_2.Value	Configurable Input 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.205.0	UserInput_3.Value	Configurable Input 3	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.206.0	UserInput_4.Value	Configurable Input 4	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.207.0	UserInput_5.Value	Configurable Input 5	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.208.0	UserInput_6.Value	Configurable Input 6	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.209.0	UserInput_7.Value	Configurable Input 7	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.210.0	UserInput_8.Value	Configurable Input 8	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.211.0	AI_EEV_Gen_C1.Active	Generic EEV Circuit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.212.0	AI_EEV_Gen_C2.Active	Generic EEV Circuit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.213.0	AI_EMeter_Offline.Active	Energy Meter Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.214.0	AI_EP_Pump1Fail.Active	Pump1 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.215.0	AI_EP_Pump1InP.Active	Pump1 Inlet Press Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.216.0	AI_CndRefrT1	Condenser Refrigerant Sensor T1 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.217.0	AI_EP_Pump1OutP.Active	Pump1 Outlet Press Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.218.0	AI_EP_Pump1OutT.Active	Pump1 Outlet Temp Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.219.0	AI_EP_Pump2Fail.Active	Pump2 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.220.0	AI_AETempPrb.Active	Air Economizer Probe Fail	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.221.0	AI_EP_Pump2InP.Active	Pump2 Inlet Press Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.222.0	AI_CndRefrT2	Condenser Refrigerant Sensor T2 Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.223.0	AI_EP_Pump2OutP.Active	Pump2 Outlet Press Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.224.0	AI_EP_Pump2OutT.Active	Pump2 Outlet Temp Sensor Failure	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.225.0	AI_EVD_Offline_C1.Active	EEV Driver Offline Circuit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.226.0	AI_EVD_Offline_C2.Active	EEV Driver Offline Circuit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.227.0	AI_EcoEmrgncyOvrrd.Active	Air Eco Emergency Override	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.228.0	AI_Err_retain_write.Active	Too Much Retain Writing	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.229.0	AI_EvpFan.Active	One (or more) Evaporator Fan in Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.230.0	AI_EvpFanOffline.Active	One (or more) Evaporator Fan Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.231.0	AI_AirEco_WHLimit.Active	AirEco Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.232.0	AI_Expansion2Offline.Active	Expansion Board 2 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.233.0	AI_Expansion3Offline.Active	Expansion Board 3 Offline	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.234.0	AI_Expansion4Offline.Active	Expansion Board 4 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.235.0	AI_ExpansionOffline.Active	Expansion Board 1 Offline	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.236.0	AI_FCLockout.Active	FC Lockout	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.237.0	AI_FC_WHLimit.Active	FC Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.238.0	AI_Fan_WHLimit.Active	Conditioner/Fans Working Hours Exceeded	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.239.0	AI_Fire.Active	Fire Alarm	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.240.0	AI_FlowALLCEvt.Active	Loss of Flow	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.241.0	AI_FlowAlrmEvt.Active	Loss of Flow	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.559.0	AI_ManualMode.Active	Unit Manual Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.242.0	gsWH.sDev[3].cHrs	CW2 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.243.0	CW_RT_Info.Out.Valve2.CoolRequest	CW2 Opening Position	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.244.0	gsWH.sDev[2].cHrs	CW1 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.245.0	Cfg_AirEco.AirEcoType	Air Economizer Type	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.246.0	Cfg_AirEco.CfStopEn	Stop Air Economizer on Clogged Filter	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.247.0	Cfg_AirEco.Dt1Type	Air Economizer DT1 Type	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.248.0	Cfg_AirEco.Dt3Enable	Air Economizer DT3 Temperature Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.249.0	Cfg_AirEco.EmOvrEn	Air Economizer Emergency Override Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.250.0	Cfg_AirEco.RedAfEn	Air Economizer Reduced Economizer Airflow Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.251.0	Cfg_AnaOutFuncSel[0]	Analog Output 1 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.252.0	Cfg_AnaOutFuncSel[1]	Analog Output 2 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.253.0	Cfg_AnaOutFuncSel[2]	Analog Output 3 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.254.0	Cfg_AnaOutFuncSel[3]	Analog Output 4 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.255.0	Cfg_AnaOutFuncSel[4]	Analog Output 5 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.256.0	Cfg_CIFuncSel[1]	Configurable Input 1 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.257.0	Cfg_CIFuncSel[2]	Configurable Input 2 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.258.0	Cfg_CIFuncSel[3]	Configurable Input 3 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.259.0	Cfg_CIFuncSel[4]	Configurable Input 4 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.260.0	Cfg_CIFuncSel[5]	Configurable Input 5 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.261.0	Cfg_CIFuncSel[6]	Configurable Input 6 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.262.0	Cfg_CIFuncSel[7]	Configurable Input 7 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.263.0	Cfg_CIFuncSel[8]	Configurable Input 8 Setting	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.264.0	Cfg_SupCompType	Compensation Type	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.265.0	Cfg_alrmLossAirFlow_SDEn	Alarm OFF by Loss of Airflow	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.266.0	Cfg_alrmWater_SDEn	Alarm OFF by LWD	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.267.0	Cfg_autoRestartDT	Auto Restart Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.268.0	Cfg_autoRestartEn	Auto Restart Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.269.0	Cfg_cndCtrlType	Condenser Control Type	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.270.0	Cfg_cndFans_EmergEn	Condenser Emergency Mode Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.271.0	Cfg_cndFans_EmergLagT	Condenser Emergency Mode Delay	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.272.0	Cfg_cndMaxSpeed	Condenser Max Speed/Opening	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.273.0	Cfg_cndMinSpeed	Condenser Min Speed/Opening	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.274.0	Cfg_cndPSetPTyp[0]	Condenser 1 Setpoint Type	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.275.0	Cfg_cndPSetPTyp[1]	Condenser 2 Setpoint Type	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.276.0	Cfg_cndPTi[0]	Condenser 1 Integration Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.277.0	Cfg_cndPTi[1]	Condenser 2 Integration Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.278.0	Cfg_cw.LofThr	Loss of Flow at	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.279.0	Cfg_cw.OpMode	CW Valve Operating Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.280.0	Cfg_cw.StartDel	CW Start Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.281.0	Cfg_cw.StartPos	CW Start Position	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.282.0	Cfg_cw.Valve2Main	CW Main Valve	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.283.0	Cfg_cw.ValveRotEn	Daily Valve Rotation	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.284.0	Cfg_cw.ValveRotHour	Rotation Hour	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.285.0	Cfg_dehEn	Dehumidification Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.286.0	Cfg_dehLowLimSens	Low Limit Probe	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.287.0	Cfg_evpFanAuto	Auto Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.288.0	Cfg_evpFanBackDraftEn	Fan Back Draft Control	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.289.0	Cfg_evpFanCtrlType	Fan Speed Control	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.290.0	Cfg_evpFanFixSpeed	Fixed Fan Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.291.0	Cfg_evpFanForce100	Modbus High Speed Operation	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.292.0	Cfg_evpFanMaxSpeed	Maximum Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.293.0	Cfg_evpFanMinSpeed	Minimum Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.294.0	Cfg_evpFanMinSpeedDeh	Dehumidification Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.295.0	Cfg_evpFanMinSpeedDx	Minimum DX Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.296.0	Cfg_evpFanMinSpeedFail	Control Sensor Failure Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.297.0	Cfg_evpFanMinSpeedHeat	Heating Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.298.0	Cfg_evpFanMinSpeedHiT	High Ret Temp Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.299.0	Cfg_evpFanMinSpeedHum	Humidification Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.300.0	Cfg_evpFanShutDSpeedDel	Fan Shutdown Time	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.301.0	Cfg_evpFanShutDSpeedVal	Fan Shutdown Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.302.0	Cfg_evpFanSpeedBackDraft	Fan Back Draft Control Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.303.0	Cfg_evpFanSpeedNoPow	No Power Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.304.0	Cfg_evpFanStartSpeedDel	Fan Startup Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.305.0	Cfg_evpFanStartSpeedVal	Fan Startup Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.306.0	Cfg_evpFans_EmergEn	Evaporating Fans Emergency Mode Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.307.0	Cfg_evpFans_EmergLagT	Evaporating Fans Emergency Mode Delay	---
.1.3.6.1.4.1.476.1.42.4.3.32.308.0	Cfg_humDehCtrlSens	Humidity Control	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.309.0	Cfg_humDehCtrlType	Humidity Control Method	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.310.0	Cfg_humSteamRate	Humidifier Steam Rate	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.311.0	Cfg_optPrbN	Number of Optional Probes	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.312.0	Cfg_remHiHumEn	High Remote Humidity Event Enable (Relative)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.313.0	Cfg_remHiTEEn	High Remote Temperature Event Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.314.0	Cfg_remLowHumEn	Low Remote Humidity Event Enable (Relative)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.315.0	Cfg_remLowTEEn	Low Remote Temperature Event Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.316.0	Cfg_remPrbN	Number of Remote Probes	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.317.0	Cfg_remTempType	Remote Probes Control Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.318.0	Cfg_remTi	Remote Integration Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.319.0	Cfg_retDmpDT	Return Damper Opening Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.320.0	Cfg_retDmpEn	Return Damper Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.321.0	Cfg_retHiHumEn	High Return Humidity Event Enable (Relative)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.322.0	Cfg_retHiTEEn	High Return Temperature Event Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.323.0	Cfg_retLowHumEn	Low Return Humidity Event Enable (Relative)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.324.0	Cfg_retLowTEEn	Low Return Temperature Event Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.325.0	Cfg_retPrbN	Number of Return Probes	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.326.0	Cfg_retTempType	Return Control Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.327.0	Cfg_retTi	Return Integration Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.328.0	Cfg_supHiTEEn	High Supply Temperature Event Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.329.0	Cfg_supHiT_SDEn	Alarm OFF by High Supply Temp.	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.330.0	Cfg_supLowTEEn	Low Supply Temperature Event Enable	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.331.0	Cfg_supPrbN	Number of Supply Probes	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.332.0	Cfg_supTempType	Return Probes Control Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.333.0	Cfg_supTi	Supply Integration Time	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.334.0	Cfg_tempCtrlType	Temperature Control	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.335.0	Cmp1C1Req_Mask	Compressor 1 Circ 1 Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.336.0	Cmp1C1_OVSts	Compressor 1 Circ 1 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.337.0	gsWH.sDev[4].cHrs	Comp 1 Circ 1 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.338.0	Cmp1C2Req_Mask	Compressor 1 Circ 2 Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.339.0	Cmp1C2_OVSts	Compressor 1 Circ 2 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.340.0	gsWH.sDev[5].cHrs	Comp 1 Circ 2 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.341.0	Cmp2C1Req_Mask	Compressor 2 Circ 1 Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.342.0	Cmp2C1_OVSts	Compressor 2 Circ 1 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.343.0	gsWH.sDev[6].cHrs	Comp 2 Circ 1 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.344.0	Cmp2C2Req_Mask	Compressor 2 Circ 2 Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.345.0	Cmp2C2_OVSts	Compressor 2 Circ 2 Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.346.0	gsWH.sDev[7].cHrs	Comp 2 Circ 2 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.347.0	Cnd1FanSts_OV[1]	Condenser 1 Fan/Valve 1 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.348.0	Cnd1FanSts_OV[2]	Condenser 1 Fan/Valve 2 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.349.0	Cnd1FanSts_OV[3]	Condenser 1 Fan/Valve 3 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.350.0	Cnd1FanSts_OV[4]	Condenser 1 Fan/Valve 4 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.351.0	Cnd2FanSts_OV[1]	Condenser 2 Fan/Valve 1 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.352.0	Cnd2FanSts_OV[2]	Condenser 2 Fan/Valve 2 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.353.0	Cnd2FanSts_OV[3]	Condenser 2 Fan/Valve 3 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.354.0	Cnd2FanSts_OV[4]	Condenser 2 Fan/Valve 4 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.355.0	gsWH.sDev[15].cHrs	Condenser 2 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.356.0	gsWH.sDev[14].cHrs	Condenser 1 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.357.0	Day	Date Day	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.358.0	gsWH.sDev[17].cHrs	Dehumidification Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.359.0	gsWH.sDev[13].cHrs	PRE 2 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.360.0	gsWH.sDev[12].cHrs	PRE 1 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.361.0	gsWH.sDev[10].cHrs	FC Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.362.0	FanReq_Mask	Fan Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.363.0	FanSts_OV[1]	Evaporator Fan 1 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.364.0	FanSts_OV[2]	Evaporator Fan 2 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.365.0	FanSts_OV[3]	Evaporator Fan 3 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.366.0	FanSts_OV[4]	Evaporator Fan 4 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.367.0	FanSts_OV[5]	Evaporator Fan 5 Status (Modbus)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.368.0	FanSts_OV[6]	Evaporator Fan 6 Status (Modbus)	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.369.0	gsWH.sDev[1].cHrs	Fan Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.370.0	HMI_DeHumStatus	Dehumidification Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.371.0	HMI_HumStatus	Humidifier Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.372.0	HMI_MTMFC_OvrSts	Air Economizer Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.373.0	HeatHiTempStopCnt_Res	El Heater High Supply Temp Counter Reset	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.374.0	gsWH.sDev[19].cHrs	Heating 2 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.375.0	gsWH.sDev[18].cHrs	Heating 1 Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.376.0	gsWH.sDev[20].cHrs	Hot Gas/Hot Water Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.377.0	Hour	Time Hour	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.378.0	gsWH.sDev[16].cHrs	Humidification Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.379.0	Minute	Time Minute	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.380.0	Month	Date Month	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.381.0	PwrSuplnStatus_Mask	Ultracapacitor/ATS	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.382.0	gsWH.sDev[11].cHrs	Air Eco Working Hours	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.383.0	Second	Time Second	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.384.0	UnitStatus	Unit Status	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.385.0	Year	Date Year	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.386.0	CPYMng_CPY_Conduct	Electrode Humidifier Conductivity	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.387.0	CPYMng_CPY_State	Electrode Humidifier Cylinder State	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.388.0	CW_RT_Info.Out.Valve1.FlowRateLS	Water Flow Circ 1 Value (l/s)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.389.0	CW_RT_Info.Out.Valve1.FlowRateM3H	Water Flow Circ 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.390.0	CW_RT_Info.Out.Valve2.FlowRateLS	Water Flow Circ 2 Value (l/s)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.391.0	CW_RT_Info.Out.Valve2.FlowRateM3H	Water Flow Circ 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.392.0	CoolingReq_Mask	Cooling Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.393.0	DehumReq_Mask	Dehumidification Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.394.0	HeatReq_Mask	Heating Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.395.0	HumReq_Mask	Humidification Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.396.0	MTDB_Sync_Common[13]	Cascade	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.398.0	MTDB_Sync_Common[2]	Teamwork Total Units	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.399.0	MTDB_Sync_Common[3]	Teamwork Standby Units	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.400.0	MTDB_Sync_Specific[1]	Teamwork Mode	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.401.0	TwSensorsMinMaxAvgResult_Glo[10]	System Humidification Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.402.0	TwSensorsMinMaxAvgResult_Glo[19]	Static Pressure System Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.403.0	TwSensorsMinMaxAvgResult_Glo[5]	System Fan Speed Request	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.404.0	TwSensorsMinMaxAvgResult_Glo[6]	System FC Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.405.0	TwSensorsMinMaxAvgResult_Glo[7]	System DX Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.406.0	TwSensorsMinMaxAvgResult_Glo[8]	System Heating Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.407.0	TwSensorsMinMaxAvgResult_Glo[9]	System Dehumidification Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.408.0	AmbAirTemp.Value	Outdoor Temperature Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.409.0	AnalogOut1.Value	Analog Output 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.410.0	AnalogOut2.Value	Analog Output 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.411.0	AnalogOut3.Value	Analog Output 3 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.412.0	AnalogOut4.Value	Analog Output 4 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.413.0	AnalogOut5.Value	Analog Output 5 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.414.0	CPYMng_CPY_Curr	Electrode Humidifier Current	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.415.0	CPYMng_CPY_SteamProd	Electrode Humidifier Steam Production	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.416.0	CW_RT_Info.Out.Valve1.CoolLoad	Cool Gross Circ 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.417.0	CW_RT_Info.Out.Valve2.CoolLoad	Cool Gross Circ 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.418.0	Cfg_AirEco.Dt1Diff	Air Economizer DT1 Room Ambient Temperature Difference	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.419.0	Cfg_AirEco.Dt3Diff	Air Economizer DT3 Room Temperature/Setpoint Difference	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.420.0	Cfg_SupComp_Delta	Compensation Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.421.0	Cfg_BMSTempCtrlSetP	Backup Setpoint (Temp)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.422.0	Cfg_cndFans_EmergSpeed	Condenser Emergency Mode Speed/Opening	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.423.0	Cfg_cndPCutOffThrs	Condenser Cut-Off	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.424.0	Cfg_cndPPB[0]	Condenser 1 Proportional Band	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.425.0	Cfg_cndPPB[1]	Condenser 2 Proportional Band	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.426.0	Cfg_cndPSetP[0]	Condenser 1 Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.427.0	AirEcoHum.Value	Air Eco Humidity Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.428.0	Cfg_cndPSetP[1]	Condenser 2 Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.429.0	Cfg_dehLowLim1Hyst	Low Limit 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.430.0	Cfg_dehLowLim2Hyst	Low Limit 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.431.0	Cfg_evpDeltaSetP	Delta Fan Speed Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.432.0	Cfg_evpFanRemSetP	Remote Fan Speed Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.433.0	Cfg_evpFanRetSetP	Return Fan Speed Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.434.0	Cfg_evpFanSupSetP	Supply Fan Speed Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.435.0	Cfg_evpFans_EmergSpeed	Evaporating Fans Emergency Mode Speed	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.436.0	Cfg_evpStaticPDB	Static Pressure DeadBand	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.13.6.14.1476.1424.3.32437.0	Cfg_evpStaticPSetP	Static Pressure Setpoint	1.0.6
.13.6.14.1476.1424.3.32439.0	Cfg_humDehAbsDB	Absolute Humidity DeadBand	1.0.6
.13.6.14.1476.1424.3.32440.0	Cfg_humDehAbsPB	Absolute Humidity Proportional Band	1.0.6
.13.6.14.1476.1424.3.32441.0	Cfg_humDehAbsSetP	Absolute Humidity Setpoint	1.0.6
.13.6.14.1476.1424.3.32442.0	Cfg_humDehDPDB	Dew Point Humidity DeadBand	1.0.6
.13.6.14.1476.1424.3.32443.0	Cfg_humDehDPPB	Dew Point Humidity Proportional Band	1.0.6
.13.6.14.1476.1424.3.32444.0	Cfg_humDehDPSetP	Dew Point Humidity Setpoint	1.0.6
.13.6.14.1476.1424.3.32445.0	Cfg_humDehRelDB	Relative Humidity DeadBand	1.0.6
.13.6.14.1476.1424.3.32446.0	Cfg_humDehRelPB	Relative Humidity Proportional Band	1.0.6
.13.6.14.1476.1424.3.32447.0	Cfg_humDehRelSetP	Relative Humidity Setpoint	1.0.6
.13.6.14.1476.1424.3.32448.0	Cfg_remDB	Remote Temperature DeadBand	1.0.6
.13.6.14.1476.1424.3.32449.0	Cfg_remHiHumThrsAbs	High Remote Humidity Event Limit (Absolute)	1.0.6
.13.6.14.1476.1424.3.32450.0	Cfg_remHiHumThrsDP	High Remote Dew Point Event Limit	1.0.6
.13.6.14.1476.1424.3.32451.0	Cfg_remHiHumThrsRel	High Remote Humidity Event Limit (Relative)	1.0.6
.13.6.14.1476.1424.3.32452.0	Cfg_remHiTThrs	High Remote Temperature Event Limit	1.0.6
.13.6.14.1476.1424.3.32453.0	Cfg_remLowHumThrsAbs	Low Remote Humidity Event Limit (Absolute)	1.0.6
.13.6.14.1476.1424.3.32454.0	Cfg_remLowHumThrsDP	Low Remote Dew Point Event Limit	1.0.6
.13.6.14.1476.1424.3.32455.0	Cfg_remLowHumThrsRel	Low Remote Humidity Event Limit (Relative)	1.0.6
.13.6.14.1476.1424.3.32456.0	Cfg_remLowTThrs	Low Remote Temperature Event Limit	1.0.6
.13.6.14.1476.1424.3.32457.0	Cfg_remPB	Remote Proportional Band	1.0.6
.13.6.14.1476.1424.3.32458.0	Cfg_remSetP	Remote Temperature Setpoint	1.0.6
.13.6.14.1476.1424.3.32459.0	Cfg_retDB	Return Temperature DeadBand	1.0.6
.13.6.14.1476.1424.3.32460.0	Cfg_retHiHumThrsAbs	High Return Humidity Event Limit (Absolute)	1.0.6
.13.6.14.1476.1424.3.32461.0	Cfg_retHiHumThrsDP	High Return Dew Point Event Limit	1.0.6
.13.6.14.1476.1424.3.32462.0	Cfg_retHiHumThrsRel	High Return Humidity Event Limit (Relative)	1.0.6
.13.6.14.1476.1424.3.32463.0	Cfg_retHiTThrs	High Return Temperature Event Limit	1.0.6
.13.6.14.1476.1424.3.32464.0	Cfg_retLowHumThrsAbs	Low Return Humidity Event Limit (Absolute)	1.0.6
.13.6.14.1476.1424.3.32465.0	Cfg_retLowHumThrsDP	Low Return Dew Point Event Limit	1.0.6
.13.6.14.1476.1424.3.32466.0	Cfg_retLowHumThrsRel	Low Return Humidity Event Limit (Relative)	1.0.6
.13.6.14.1476.1424.3.32467.0	Cfg_retLowTThrs	Low Return Temperature Event Limit	1.0.6
.13.6.14.1476.1424.3.32468.0	Cfg_retPB	Return Proportional Band	1.0.6
.13.6.14.1476.1424.3.32469.0	Cfg_retSetP	Return Temperature Setpoint	1.0.6
.13.6.14.1476.1424.3.32470.0	Cfg_secondSetP	Second Setpoint	1.0.6
.13.6.14.1476.1424.3.32471.0	Cfg_supDB	Supply Temperature DeadBand	1.0.6
.13.6.14.1476.1424.3.32472.0	Cfg_supHiTThrs	High Supply Temperature Event Limit	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.473.0	Cfg_supLowTThrs	Low Supply Temperature Event Limit	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.474.0	Cfg_supPB	Supply Proportional Band	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.475.0	Cfg_supSetP	Supply Temperature Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.476.0	Cond1Req	Condenser 1 Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.477.0	Cond2Req	Condenser 2 Request	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.480.0	DscgT_Circ1.Value	Discharge Temperature Value Circ 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.481.0	DscgT_Circ2.Value	Discharge Temperature Value Circ 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.482.0	EnMet.CL1	Input RMS Current Phase A	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.483.0	EnMet.CL2	Input RMS Current Phase B	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.484.0	AirEcoTemp.Value	Air Eco Temperature Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.485.0	EnMet.CL3	Input RMS Current Phase C	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.486.0	EnMet.Energy	Energy Consumption	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.487.0	EnMet.PwrSum	Instantaneous Power	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.488.0	EnMet.VL1_L2	Input RMS A-B	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.489.0	EnMet.VL1_N	Input RMS A-N	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.490.0	EnMet.VL2_L3	Input RMS B-C	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.491.0	EnMet.VL2_N	Input RMS B-N	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.492.0	EnMet.VL3_L1	Input RMS C-A	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.493.0	EnMet.VL3_N	Input RMS C-N	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.494.0	EvapInletTemp.Value	Inlet Water Temperature C1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.495.0	EvapInletTemp_Circ2.Value	Inlet Water Temperature C2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.496.0	EvapOutletTemp.Value	Outlet Water Temperature C1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.497.0	EvapOutletTemp_Circ2.Value	Outlet Water Temperature C2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.498.0	FanSafety.Value	Supply Fan Safe Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.499.0	FanSetP_Act	Current Fan Speed Setpoint (Used by application)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.500.0	GlycolT.Value	Glycol Temperature Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.501.0	HP_Circ1.Value	Discharge Pressure Value Circ 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.502.0	HP_Circ2.Value	Discharge Pressure Value Circ 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.503.0	HumSetP_Act	Actual Humidity Setpoint (Used by application)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.504.0	HumValRet_Act	Return Humidity Value (Result)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.505.0	LLAuto_CtrlSetP	Current Temperature Setpoint (Used by application)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.506.0	LP_Circ1.Value	Suction Pressure Value Circ 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.507.0	LP_Circ2.Value	Suction Pressure Value Circ 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.508.0	OptAirHum.Value	Optional Sensor Humidity 1 Value	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.509.0	OptAirHum_2.Value	Optional Sensor Humidity 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.510.0	OptAirHum_3.Value	Optional Sensor Humidity 3 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.511.0	OptAirTemp.Value	Optional Sensor Temperature 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.512.0	OptAirTemp_2.Value	Optional Sensor Temperature 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.513.0	OptAirTemp_3.Value	Optional Sensor Temperature 3 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.514.0	RemAirHum.Value	Remote Humidity 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.515.0	RemAirHum_10.Value	Remote Humidity 10 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.516.0	RemAirHum_2.Value	Remote Humidity 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.517.0	RemAirHum_3.Value	Remote Humidity 3 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.518.0	RemAirHum_4.Value	Remote Humidity 4 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.519.0	RemAirHum_5.Value	Remote Humidity 5 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.520.0	RemAirHum_6.Value	Remote Humidity 6 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.521.0	RemAirHum_7.Value	Remote Humidity 7 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.522.0	RemAirHum_8.Value	Remote Humidity 8 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.523.0	RemAirHum_9.Value	Remote Humidity 9 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.524.0	RemAirTemp.Value	Remote Temperature 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.525.0	RemAirTemp_10.Value	Remote Temperature 10 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.526.0	RemAirTemp_2.Value	Remote Temperature 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.527.0	RemAirTemp_3.Value	Remote Temperature 3 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.528.0	RemAirTemp_4.Value	Remote Temperature 4 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.529.0	RemAirTemp_5.Value	Remote Temperature 5 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.530.0	RemAirTemp_6.Value	Remote Temperature 6 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.531.0	RemAirTemp_7.Value	Remote Temperature 7 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.532.0	RemAirTemp_8.Value	Remote Temperature 8 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.533.0	RemAirTemp_9.Value	Remote Temperature 9 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.534.0	RemPrb.Hum.Val	Remote Humidity Value (Result)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.535.0	RemPrb.Temp.Val	Remote Temperature Value (Result)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.536.0	RetAirHum.Value	Return Humidity 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.537.0	RetAirHum_2.Value	Return Humidity 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.538.0	RetAirHum_3.Value	Return Humidity 3 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.539.0	RetAirHum_4.Value	Return Humidity 4 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.540.0	RetAirTemp.Value	Return Temperature 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.541.0	RetAirTemp_2.Value	Return Temperature 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.542.0	RetAirTemp_3.Value	Return Temperature 3 Value	1.0.6

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.543.0	RetAirTemp_4.Value	Return Temperature 4 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.544.0	RetPrb.Temp.Val	Return Temperature Value (Result)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.545.0	StaticP.Value	Static Pressure Local Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.546.0	SuctT_Circ1.Value	Suction Temperature Value Circ 1	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.547.0	SuctT_Circ2.Value	Suction Temperature Value Circ 2	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.548.0	SupAirTemp.Value	Supply Temperature 1 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.549.0	SupAirTemp_2.Value	Supply Temperature 2 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.550.0	SupAirTemp_3.Value	Supply Temperature 3 Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.551.0	SupPrb.Temp.Val	Supply Temperature Value (Result)	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.552.0	Tw_HSetP	System Humidity Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.553.0	Tw_RemH	System Remote Humidity Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.554.0	Tw_RemT	System Remote Temperature Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.555.0	Tw_RetH	System Return Humidity Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.556.0	Tw_RetT	System Return Temperature Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.557.0	Tw_SupT	System Supply Temperature Value	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.558.0	Tw_TSetP	System Temperature Setpoint	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.560.0	CWPwrEst.Val	Power Consumption Calculator	1.0.6
.1.3.6.1.4.1.476.1.42.4.3.32.561.0	GlbAl	Generic Alarm Active	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.562.0	GlbWa	Generic Warning Active	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.563.0	GlbEvnt	Generic Event Active	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.564.0	HeartBeat	BMS Heart Beat	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.565.0	Cfg_almHeartBeatEn	BMS Time-Out Enable	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.566.0	Cfg_almHeartBeatDT	BMS Timeout	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.567.0	Al_CndLowAmbThrs2.Active	Very Low Outdoor Temp. Warning	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.568.0	Al_CndLowAmbThrs3.Active	Very Low Outdoor Temp. Alarm	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.569.0	Al_EP_LoSHPump1	Low SuperHeat Pump 1	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.570.0	Al_EP_HiSHPump1	High SuperHeat Pump 1	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.571.0	Al_EP_LoSCPump1	Low SubCool Pump 1	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.572.0	Al_EP_LoDPPump1	Low Diff Press Pump 1	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.573.0	Al_EP_HiDPPump1	High Diff Press Pump 1	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.574.0	Al_EP_LoSHPump2	Low SuperHeat Pump 2	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.575.0	Al_EP_HiSHPump2	High SuperHeat Pump 2	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.576.0	Al_EP_LoSCPump2	Low SubCool Pump 2	1.0.7
.1.3.6.1.4.1.476.1.42.4.3.32.577.0	Al_EP_LoDPPump2	Low Diff Press Pump 2	1.0.7

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.424.3.32578.0	AI_EP_HiDPPump2	High Diff Press Pump 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32579.0	AI_EP_Pump1	Pump 1 Alarm	1.0.7
.1.3.6.1.4.1.476.1.424.3.32580.0	AI_EP_Pump2	Pump 2 Alarm	1.0.7
.1.3.6.1.4.1.476.1.424.3.32581.0	AI_EP_StartFailPump1	Startup Failure Pump 1	1.0.7
.1.3.6.1.4.1.476.1.424.3.32582.0	AI_EP_StartFailPump2	Startup Failure Pump 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32583.0	AI_EP_StartLockPump1	Startup Lock Pump 1	1.0.7
.1.3.6.1.4.1.476.1.424.3.32584.0	AI_EP_StartLockPump2	Startup Lock Pump 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32585.0	FCReq_Mask	Freecooling request	1.0.7
.1.3.6.1.4.1.476.1.424.3.32586.0	HumValRem_Act	Remote Humidity Value (Result)	1.0.7
.1.3.6.1.4.1.476.1.424.3.32587.0	AI_LowStartPCirc1	Low Start Pressure Circuit 1	1.0.7
.1.3.6.1.4.1.476.1.424.3.32588.0	AI_LowStartPCirc2	Low Start Pressure Circuit 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32589.0	AI_StopOnLPCirc1	Stop On Low Pressure Circuit 1	1.0.7
.1.3.6.1.4.1.476.1.424.3.32590.0	AI_StopOnLPCirc2	Stop On Low Pressure Circuit 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32591.0	AI_FreezeProtCirc1	Freeze Protection Circuit 1	1.0.7
.1.3.6.1.4.1.476.1.424.3.32592.0	AI_FreezeProtCirc2	Freeze Protection Circuit 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32593.0	AI_LowStartPMsgCirc1	Low Start Pressure Circuit 1	1.0.7
.1.3.6.1.4.1.476.1.424.3.32594.0	AI_LowStartPMsgCirc2	Low Start Pressure Circuit 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32595.0	AI_CapDeratingCirc1	Capacity Derating Circuit 1	1.0.7
.1.3.6.1.4.1.476.1.424.3.32596.0	AI_CapDeratingCirc2	Capacity Derating Circuit 2	1.0.7
.1.3.6.1.4.1.476.1.424.3.32597.0	AI_StaticP_OutOfRange	Static Pressure Out Of Range	1.0.8
.1.3.6.1.4.1.476.1.424.3.32598.0	geSelManAuto	Sel Man-Auto; 0 = Man, 1 = Off, 2 = Auto	1.0.8
.1.3.6.1.4.1.476.1.424.3.32599.0	ClnEvt[3]	ATS Power Supply Line in use; 0 = PS1, 1 = PS2	1.0.8
.1.3.6.1.4.1.476.1.424.3.32600.0	ClnEvt[4]	ATS Power Supp 1 Sts; 0 = OK, 1 = NOK	1.0.8
.1.3.6.1.4.1.476.1.424.3.32601.0	ClnEvt[5]	ATS Power Supp 2 Sts; 0 = OK, 1 = NOK	1.0.8
.1.3.6.1.4.1.476.1.424.3.32602.0	Cfg_StaticPOOR.Enable	Static Pressure Events Enable	1.0.8
.1.3.6.1.4.1.476.1.424.3.32603.0	geEPSta	PRE Working Mode	1.0.8
.1.3.6.1.4.1.476.1.424.3.32604.0	Cfg_StaticPOOR.nLowLimit	Low Static Pressure Event Limit	1.0.8
.1.3.6.1.4.1.476.1.424.3.32605.0	Cfg_StaticPOOR.nHiLimit	High Static Pressure Event Limit	1.0.8
.1.3.6.1.4.1.476.1.424.3.32606.0	SerialValves_reqVolFlowRateLS	Nominal Vol. Flow Rate (CW)	1.0.10
.1.3.6.1.4.1.476.1.424.3.32607.0	AI_EEV1_WHLimit	EEV Circuit 1 Working Hours Exceeded	1.0.10
.1.3.6.1.4.1.476.1.424.3.32608.0	AI_EEV2_WHLimit	EEV Circuit 2 Working Hours Exceeded	1.0.10
.1.3.6.1.4.1.476.1.424.3.32609.0	gsWH.sDev[8].cHrs	EEV Circuit 1 Working Hours	1.0.10
.1.3.6.1.4.1.476.1.424.3.32610.0	gsWH.sDev[9].cHrs	EEV Circuit 2 Working Hours	1.0.10
.1.3.6.1.4.1.476.1.424.3.32611.0	Cfg_evpStaticPPB	Pressure Prop Band	1.0.11

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.612.0	AI_EP_PropLockout	EconoPhase Prop Lockout	1.0.11
.1.3.6.1.4.1.476.1.42.4.3.32.613.0	AI_SurgeArrester	Surge Arrester Failure	1.0.11
.1.3.6.1.4.1.476.1.42.4.3.32.614.0	AI_ClogFiltMbTh1	Clogged Filter Th1	1.0.11
.1.3.6.1.4.1.476.1.42.4.3.32.615.0	AI_ClogFiltMbTh2	Clogged Filter Th2	1.0.11
.1.3.6.1.4.1.476.1.42.4.3.32.616.0	AI_ClogFiltMbGeneric	Clogged Filter Error	1.0.11
.1.3.6.1.4.1.476.1.42.4.3.32.617.0	gsClogFiltMbsAct.n1Val	CF Differential Pressure	1.0.11
.1.3.6.1.4.1.476.1.42.4.3.32.618.0	AI_Atts	ATS Error	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.619.0	Cfg_BMSTempCtrl	BMS Temp. Control	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.620.0	Cfg_BMSFanCtrl	BMS Fan Control	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.621.0	Cfg_BMSFanCtrlSpeed	Backup Speed	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.622.0	Cfg_BMSFanCtrlSetP	Backup Setpoint (Fan)	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.623.0	gsCustAnalnsStatus.aOutput [1].nValueSlew	Analog Input 1 Value	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.624.0	gsCustAnalnsStatus.aOutput [2].nValueSlew	Analog Input 2 Value	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.625.0	gsCustAnalnsStatus.aOutput [3].nValueSlew	Analog Input 3 Value	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.626.0	gsCustAnalnsStatus.aOutput [4].nValueSlew	Analog Input 4 Value	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.627.0	EP_RT_Info.In.Pump1.InletPress.Value	Pump 1 Inlet Pressure	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.628.0	EP_RT_Info.In.Pump2.InletPress.Value	Pump 2 Inlet Pressure	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.629.0	gsCndOutdTemp.sAct[1].n1Val	Circuit 1 Outdoor Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.630.0	gsCndOutdTemp.sAct[2].n1Val	Circuit 2 Outdoor Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.631.0	EVD_Circ_Info[0].EEV_PosPerc	EEV 1 Position	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.632.0	EVD_Circ_Info[1].EEV_PosPerc	EEV 2 Position	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.633.0	EP_ModeSelectCfg.nPbSwBackThr	P-Band Switchback Thrs	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.634.0	EP_ModeSelectOut.sPump[1].n2Speed	Pump 1 Speed	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.635.0	EP_ModeSelectOut.sPump[2].n2Speed	Pump 2 Speed	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.636.0	gsCndRefrTemp.sAct[1].n1Val	Pump 1 Inlet Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.637.0	gsCndRefrTemp.sAct[2].n1Val	Pump 2 Inlet Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.638.0	EP_RT_Info.In.Pump1.OutletTemp.Value	Pump 1 Outlet Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.639.0	EP_RT_Info.In.Pump2.OutletTemp.Value	Pump 2 Outlet Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.640.0	EP_ModeSelectOut.sPump[1].fOn	Pump 1 State	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.641.0	EP_ModeSelectOut.sPump[2].fOn	Pump 2 State	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.642.0	EP_ModeSelectOut.ePreModeAct	Operating Mode	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.643.0	gsFluidEcosStatus.eStatus	Fluid Eco Status	1.0.12

Table 7.1 OID (continued)

OID	Variable	Description	Version
.1.3.6.1.4.1.476.1.42.4.3.32.644.0	gsFluidEco.sCfg.fMixEn	Fluid Eco DX+FC	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.645.0	gsFluidEco.sCfg.n1FcTempMin	Fluid Eco Lockout FC at	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.646.0	gsFluidEco.sCfg.fGlycTempMixMinEn	Fluid Eco Minimum Glycol Enable	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.647.0	gsFluidEco.sCfg.n1GlycTempMixMi	Fluid Eco Minimum Glycol Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.648.0	gsFluidEco.sCfg.eDt1Type	Fluid Eco DT1 Type	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.649.0	gsFluidEco.sCfg.n1Dt1Diff	Fluid Eco DT1 Value	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.650.0	gsFluidEco.sCfg.eDt2Type	Fluid Eco DT2 Type	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.651.0	gsFluidEco.sCfg.n1Dt2Diff	Fluid Eco DT2 Value	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.652.0	gsFluidEco.sCfg.eDt3En	Fluid Eco DT3 Enable	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.653.0	gsFluidEco.sCfg.n1Dt3Diff	Fluid Eco DT3 Value	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.654.0	AI_AirFlowSensFail	Airflow Sensor Failure	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.655.0	AI_CndMbValve1Offline	Mb Condenser Valve 1 Offline	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.656.0	AI_CndMbValve2Offline	Mb Condenser Valve 2 Offline	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.657.0	AI_FcMbValve1Offline	Mb FC Valve 1 Offline	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.658.0	gsFluidEco.sCfg.n3MbVlvMaxFlowLs	Nominal Vol. Flow Rate (Fluid Economizer)	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.659.0	gsCndWater.sCfg.n3MbVlvMaxFlowLs	Nominal Vol. Flow Rate (Water Condenser)	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.660.0	gsDayLog[1].sHigh.nValue	Daily High Control Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.661.0	gsDayLog[1].sLow.nValue	Daily Low Control Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.662.0	gsDayLog[2].sHigh.nValue	Daily High Return Humidity	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.663.0	gsDayLog[2].sLow.nValue	Daily Low Return Humidity	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.664.0	gnFlushRate	IR Flush Rate	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.665.0	LLAuto_CtrlTemp	Cooling Control Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.666.0	gnCtrlSensVal	Fan Control Temperature	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.667.0	CW_RT_Info.Out.nSuperSaverReq	Supersaver Signal	1.0.12
.1.3.6.1.4.1.476.1.42.4.3.32.668.0	AI_AuxSenDisconnect	Aux Sensor Disconnected	1.1.0
.1.3.6.1.4.1.476.1.42.4.3.32.669.0	Cfg.Bms.eUoM	Monitoring System of Measurement	1.1.0
.1.3.6.1.4.1.476.1.42.4.3.32.670.0	CW_RT_Info.Out.Valve1.CoolRequest	CW1 Opening Position	1.1.0
.1.3.6.1.4.1.476.1.42.4.3.32.671.0	FanSts_OV[7]	Evaporator Fan 7 Status (Modbus)	1.1.0
.1.3.6.1.4.1.476.1.42.4.3.32.672.0	FanSts_OV[8]	Evaporator Fan 8 Status (Modbus)	1.1.0

7.2 Traps

Table 7.2 OID

OID	Description	Type
1.3.6.1.4.1476.1424.3.32.1.0	Loss of Flow	Alarm
1.3.6.1.4.1476.1424.3.32.2.0	Configurable Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.4.0	Loss of Air Flow	Alarm
1.3.6.1.4.1476.1424.3.32.5.0	Glycol Temperature Probe Fail	Alarm
1.3.6.1.4.1476.1424.3.32.6.0	High Pressure Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.7.0	High Pressure Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.8.0	Discharge Pressure Sensor Circuit 1 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.9.0	Discharge Pressure Sensor Circuit 2 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.11.0	El. Heater2 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.12.0	Heater Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.14.0	Heater High Temperature Lockout	Warning
1.3.6.1.4.1476.1424.3.32.15.0	El. Heater1 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.16.0	High Remote Humidity	Warning
1.3.6.1.4.1476.1424.3.32.17.0	High Remote Temperature	Warning
1.3.6.1.4.1476.1424.3.32.18.0	High Return Humidity	Warning
1.3.6.1.4.1476.1424.3.32.19.0	High Return Temperature	Warning
1.3.6.1.4.1476.1424.3.32.20.0	High Suction SuperHeat Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.21.0	High Suction SuperHeat Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.22.0	High Supply Temperature	Warning
1.3.6.1.4.1476.1424.3.32.23.0	High CW1 Temperature	Warning
1.3.6.1.4.1476.1424.3.32.24.0	All Condenser C1 Fans Offline	Warning
1.3.6.1.4.1476.1424.3.32.25.0	High CW2 Temperature	Warning
1.3.6.1.4.1476.1424.3.32.26.0	Hot Water/Gas Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.29.0	Humidifier Problem	Warning
1.3.6.1.4.1476.1424.3.32.31.0	Humidifier Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.32.0	Low Operating Pressure Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.33.0	Low Operating Pressure Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.34.0	Low Pressure Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.35.0	All Condenser C2 Fans Offline	Warning
1.3.6.1.4.1476.1424.3.32.36.0	Soft Low Pressure Circuit 1 (MTM Only)	Warning
1.3.6.1.4.1476.1424.3.32.37.0	Low Pressure Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.39.0	Suction Pressure Sensor Circuit 1 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.40.0	Suction Pressure Sensor Circuit 2 Failure	Alarm

Table 7.2 OID (continued)

OID	Description	Type
1.3.6.1.4.1476.1424.3.3243.0	Local Static Pressure Sensor Fail	Warning
1.3.6.1.4.1476.1424.3.3244.0	Loss of CW1 Flow	Warning
1.3.6.1.4.1476.1424.3.3245.0	Loss of CW2 Flow	Warning
1.3.6.1.4.1476.1424.3.3246.0	All Evaporator Fans Offline	Alarm
1.3.6.1.4.1476.1424.3.3247.0	Low Remote Humidity	Warning
1.3.6.1.4.1476.1424.3.3248.0	Low Remote Temperature	Warning
1.3.6.1.4.1476.1424.3.3249.0	Low Return Humidity	Warning
1.3.6.1.4.1476.1424.3.3250.0	Low Return Temperature	Warning
1.3.6.1.4.1476.1424.3.3251.0	Low Suction SuperHeat Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.3252.0	Low Suction SuperHeat Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.3253.0	Low Supply Temperature	Warning
1.3.6.1.4.1476.1424.3.3254.0	Maximum Operating Pressure Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.3255.0	Maximum Operating Pressure Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.3259.0	Network Failure	Warning
1.3.6.1.4.1476.1424.3.3260.0	No Connection to Unit 1	Warning
1.3.6.1.4.1476.1424.3.3261.0	No Power	Warning
1.3.6.1.4.1476.1424.3.3262.0	Optional Probe 1 Fail	Warning
1.3.6.1.4.1476.1424.3.3263.0	Optional Probe 2 Fail	Warning
1.3.6.1.4.1476.1424.3.3264.0	Optional Probe 3 Fail	Warning
1.3.6.1.4.1476.1424.3.3265.0	Stop Due to High Temp	Alarm
1.3.6.1.4.1476.1424.3.3266.0	Out Of Working Range	Warning
1.3.6.1.4.1476.1424.3.3267.0	PRE2 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.3268.0	Outdoor Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.3269.0	PRE1 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.3272.0	Reduced Eco Air Flow	Warning
1.3.6.1.4.1476.1424.3.3273.0	Remote 10 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3274.0	Remote 1 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3275.0	Remote 2 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3276.0	Remote 3 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3277.0	Remote 4 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3278.0	Remote 5 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3280.0	Remote 6 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3281.0	Remote 7 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.3282.0	Remote 8 Sensor Failure	Warning

Table 7.2 OID (continued)

OID	Description	Type
1.3.6.1.4.1476.1424.3.32.83.0	Remote 9 Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.32.85.0	Remote Sensor Failure (Cumulative)	Alarm
1.3.6.1.4.1476.1424.3.32.87.0	Humidity Return Sensor Failure (MTM Only)	Alarm
1.3.6.1.4.1476.1424.3.32.88.0	Return Sensor Failure (Cumulative)	Alarm
1.3.6.1.4.1476.1424.3.32.89.0	Heater High Temperature Probe Fail	Alarm
1.3.6.1.4.1476.1424.3.32.90.0	BMS Offline	Warning
1.3.6.1.4.1476.1424.3.32.93.0	Smoke Alarm	Warning
1.3.6.1.4.1476.1424.3.32.94.0	Soft High Pressure Circuit 1	Warning
1.3.6.1.4.1476.1424.3.32.95.0	Soft High Pressure Circuit 2	Warning
1.3.6.1.4.1476.1424.3.32.98.0	Suction Temperature Sensor Circuit 1 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.99.0	Suction Temperature Sensor Circuit 2 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.100.0	Supply Sensor Failure (Cumulative)	Alarm
1.3.6.1.4.1476.1424.3.32.101.0	HCB Disable	Warning
1.3.6.1.4.1476.1424.3.32.102.0	System Remote Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.32.103.0	System Return Sensor Failure	Warning
1.3.6.1.4.1476.1424.3.32.104.0	System Static Pressure Sensor Fail	Warning
1.3.6.1.4.1476.1424.3.32.105.0	Thermal Protection Compressor 1 Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.106.0	Thermal Protection Compressor 1 Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.107.0	Thermal Protection Compressor 2 Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.108.0	Thermal Protection Compressor 2 Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.110.0	UC Missing	Alarm
1.3.6.1.4.1476.1424.3.32.112.0	Supply Water High Conductivity	Warning
1.3.6.1.4.1476.1424.3.32.115.0	VSD Circuit 1 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.116.0	VSD Circuit 2 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.117.0	VSD Circuit 1 Generic Event	Alarm
1.3.6.1.4.1476.1424.3.32.118.0	VSD Circuit 2 Generic Event	Alarm
1.3.6.1.4.1476.1424.3.32.119.0	High Discharge Temperature Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.120.0	High Discharge Temperature Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.121.0	VSD Circuit 1 Out of Envelope	Alarm
1.3.6.1.4.1476.1424.3.32.122.0	VSD Circuit 2 Out of Envelope	Alarm
1.3.6.1.4.1476.1424.3.32.123.0	HCB Offline	Warning
1.3.6.1.4.1476.1424.3.32.124.0	VSD Circuit 1 Startup Failure	Alarm
1.3.6.1.4.1476.1424.3.32.125.0	VSD Circuit 2 Startup Failure	Alarm
1.3.6.1.4.1476.1424.3.32.126.0	CW2 Water Flow Sensor Fail	Warning

Table 7.2 OID (continued)

OID	Description	Type
1.3.6.1.4.1476.1424.3.32.127.0	CW1 Water Flow Sensor Fail	Warning
1.3.6.1.4.1476.1424.3.32.128.0	VSD Circuit 1 Generic Event	Warning
1.3.6.1.4.1476.1424.3.32.129.0	VSD Circuit 2 Generic Event	Warning
1.3.6.1.4.1476.1424.3.32.130.0	Configurable Warning	Warning
1.3.6.1.4.1476.1424.3.32.131.0	Water Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.132.0	Retain Memory Error	Alarm
1.3.6.1.4.1476.1424.3.32.134.0	HCB Shut Down	Warning
1.3.6.1.4.1476.1424.3.32.135.0	CW2 Inlet Probe Fail	Warning
1.3.6.1.4.1476.1424.3.32.138.0	CW2 Outlet Probe Fail	Warning
1.3.6.1.4.1476.1424.3.32.139.0	CW2 Valve Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.140.0	CW1 Inlet Probe Fail	Warning
1.3.6.1.4.1476.1424.3.32.141.0	Mb CW Valve 1 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.142.0	Mb CW Valve 2 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.143.0	Mb CW Valve 3 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.144.0	Mb CW Valve 4 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.145.0	CW1 Outlet Probe Fail	Warning
1.3.6.1.4.1476.1424.3.32.146.0	CW1 Valve Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.147.0	Clogged Filter	Warning
1.3.6.1.4.1476.1424.3.32.148.0	Comp1 Circ1 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.149.0	Comp1 Circ2 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.150.0	Comp2 Circ1 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.151.0	Comp2 Circ2 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.154.0	All Condenser C1 Fans in Alarm	Warning
1.3.6.1.4.1476.1424.3.32.155.0	Condenser 1 Failure	Warning
1.3.6.1.4.1476.1424.3.32.156.0	One (or more) Condenser C1 Fan in Alarm	Warning
1.3.6.1.4.1476.1424.3.32.157.0	One (or more) Condenser C1 Fan Offline	Warning
1.3.6.1.4.1476.1424.3.32.158.0	All Condenser C2 Fans in Alarm	Warning
1.3.6.1.4.1476.1424.3.32.159.0	Condenser 2 Failure	Warning
1.3.6.1.4.1476.1424.3.32.160.0	One (or more) Condenser C2 Fan in Alarm	Warning
1.3.6.1.4.1476.1424.3.32.161.0	One (or more) Condenser C2 Fan Offline	Warning
1.3.6.1.4.1476.1424.3.32.162.0	Condensing Pump Alarm	Warning
1.3.6.1.4.1476.1424.3.32.163.0	Condensing Pump Alarm	Warning
1.3.6.1.4.1476.1424.3.32.164.0	Condensing Pump Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.165.0	Condenser 1 Outdoor Temp Sensor Failure	Alarm

Table 7.2 OID (continued)

OID	Description	Type
1.3.6.1.4.1476.1424.3.32.166.0	Condenser 2 Outdoor Temp Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.167.0	Condenser Fans2 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.172.0	Condenser Fans1 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.177.0	C-Input 1	Alarm
1.3.6.1.4.1476.1424.3.32.182.0	C-Input 2	Alarm
1.3.6.1.4.1476.1424.3.32.184.0	C-Input 3	Alarm
1.3.6.1.4.1476.1424.3.32.185.0	C-Input 4	Alarm
1.3.6.1.4.1476.1424.3.32.187.0	Wrong Damper Position	Alarm
1.3.6.1.4.1476.1424.3.32.193.0	Dehumidification Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.200.0	Discharge Temperature Sensor Circuit 1 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.202.0	Discharge Temperature Sensor Circuit 2 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.211.0	Generic EEV Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.212.0	Generic EEV Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.213.0	Energy Meter Offline	Warning
1.3.6.1.4.1476.1424.3.32.214.0	Pump1 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.215.0	Pump1 Inlet Press Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.216.0	Pump1 Inlet Temp Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.217.0	Pump1 Outlet Press Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.218.0	Pump1 Outlet Temp Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.219.0	Pump2 Failure	Alarm
1.3.6.1.4.1476.1424.3.32.220.0	Air Economizer Probe Fail	Alarm
1.3.6.1.4.1476.1424.3.32.221.0	Pump2 Inlet Press Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.222.0	Pump2 Inlet Temp Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.223.0	Pump2 Outlet Press Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.224.0	Pump2 Outlet Temp Sensor Failure	Alarm
1.3.6.1.4.1476.1424.3.32.225.0	EEV Driver Offline Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.226.0	EEV Driver Offline Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.228.0	Too Much Retain Writing	Alarm
1.3.6.1.4.1476.1424.3.32.229.0	One (or more) Evaporator Fan in Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.230.0	One (or more) Evaporator Fan Offline	Alarm
1.3.6.1.4.1476.1424.3.32.231.0	AirEco Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.232.0	Expansion Board 2 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.233.0	Expansion Board 3 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.234.0	Expansion Board 4 Offline	Alarm

Table 7.2 OID (continued)

OID	Description	Type
1.3.6.1.4.1476.1424.3.32.235.0	Expansion Board 1 Offline	Alarm
1.3.6.1.4.1476.1424.3.32.237.0	FC Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.238.0	Conditioner/Fans Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.239.0	Fire Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.567.0	Very Low Outdoor Temp. Warning	Warning
1.3.6.1.4.1476.1424.3.32.568.0	Very Low Outdoor Temp. Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.569.0	Low SuperHeat Pump 1	Alarm
1.3.6.1.4.1476.1424.3.32.570.0	High SuperHeat Pump 1	Alarm
1.3.6.1.4.1476.1424.3.32.571.0	Low SubCool Pump 1	Alarm
1.3.6.1.4.1476.1424.3.32.572.0	Low Diff Press Pump 1	Alarm
1.3.6.1.4.1476.1424.3.32.573.0	High Diff Press Pump 1	Alarm
1.3.6.1.4.1476.1424.3.32.574.0	Low SuperHeat Pump 2	Alarm
1.3.6.1.4.1476.1424.3.32.575.0	High SuperHeat Pump 2	Alarm
1.3.6.1.4.1476.1424.3.32.576.0	Low SubCool Pump 2	Alarm
1.3.6.1.4.1476.1424.3.32.577.0	Low Diff Press Pump 2	Alarm
1.3.6.1.4.1476.1424.3.32.578.0	High Diff Press Pump 2	Alarm
1.3.6.1.4.1476.1424.3.32.579.0	Pump 1 Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.580.0	Pump 2 Alarm	Alarm
1.3.6.1.4.1476.1424.3.32.581.0	Startup Failure Pump 1	Alarm
1.3.6.1.4.1476.1424.3.32.582.0	Startup Failure Pump 2	Alarm
1.3.6.1.4.1476.1424.3.32.583.0	Startup Lock Pump 1	Warning
1.3.6.1.4.1476.1424.3.32.584.0	Startup Lock Pump 2	Warning
1.3.6.1.4.1476.1424.3.32.587.0	Low Start Pressure Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.588.0	Low Start Pressure Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.589.0	Stop On Low Pressure Circuit 1	Alarm
1.3.6.1.4.1476.1424.3.32.590.0	Stop On Low Pressure Circuit 2	Alarm
1.3.6.1.4.1476.1424.3.32.597.0	Static Pressure Out Of Range	Warning
1.3.6.1.4.1476.1424.3.32.607.0	EEV Circuit 1 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.612.0	EEV Circuit 2 Working Hours Exceeded	Warning
1.3.6.1.4.1476.1424.3.32.613.0	Surge Arrester Failure	Alarm
1.3.6.1.4.1476.1424.3.32.614.0	Clogged Filter Th1	Warning
1.3.6.1.4.1476.1424.3.32.615.0	Clogged Filter Th2	Warning
1.3.6.1.4.1476.1424.3.32.616.0	Clogged Filter Error	Warning
1.3.6.1.4.1476.1424.3.32.618.0	ATS Error	Warning

Table 7.2 OID (continued)

OID	Description	Type
1.3.6.1.4.1476.142.4.3.32.654.0	Airflow Sensor Failure	Warning
1.3.6.1.4.1476.142.4.3.32.655.0	Mb Condenser Valve 1 Offline	Alarm
1.3.6.1.4.1476.142.4.3.32.656.0	Mb Condenser Valve 2 Offline	Alarm
1.3.6.1.4.1476.142.4.3.32.657.0	Mb FC Valve 1 Offline	Alarm
1.3.6.1.4.1476.142.4.3.32.668.0	Aux Sensor Disconnected	Warning

Table 7.3 Configurable Inputs, Analog Outputs, Compressor Status, and Fan Status

Configurable Inputs	Analog Outputs	Compressor Status
0 = Not Used	0 = Not Used	1 = Ok and Running
1 = 2nd Setpoint	1 = FANVSD	2 = Ok Not Running
2 = Alarm	2 = CW1/FC_0-10	3 = Not Available
3 = ATS	3 = COOL	5 = Failure
4 = ATS PS1	4 = COOL1	6 = Timer Off
5 = ATS PS2	5 = COOL2	7 = Timer On
6 = C-Input 1	6 = INVCOOL	
7 = C-Input 2	7 = HOT W/G	
8 = C-Input 3	8 = HEAT	
9 = C-Input 4	9 = HUM1	
10 = Comp Lock PD	10 = RETTEMP	
11 = Comp Lockout	11 = RETHUM	
12 = Cond 1 Fail	12 = SUPTEMP	
13 = Cond 2 Fail	13 = CW2_0-10	
14 = Cond Pump	14 = COND1	
15 = Cond Pump LC	15 = COND2	
16 = Cond Pump SD	16 = SCR	
17 = Cool/Fan 100%	17 = OUTDAMP	
18 = Damper Feedb	18 = RETURN DAMP	
19 = Eco Airflow	19 = EXTRACTFAN	
20 = FC Lockout	20 = ALARMBOARD	
21 = Fire Alarm	21 = CW1/FC_2-10	
22 = Flow Alarm	22 = CW2_2-10	
23 = Flow AL LC		

Fan Status
1 = Ok and Running
2 = Ok Not Running
3 = Not Available
4 = Communication Failure
5 = Failure

Table 7.3 Configurable Inputs, Analog Outputs, Compressor Status, and Fan Status (continued)

Configurable Inputs
24 = Flow AL SD
25 = Force FC
26 = Heat Lockout
27 = Heat+Hum Lock
28 = Heater Alarm
29 = High CW1 T
30 = High CW2 T
31 = Hum Lockout
32 = Hum Problem
33 = Warning
34 = Water Alarm (DI)
35 = LWD (AI)
36 = No Power
37 = Smoke Alarm
38 = Standby ON
39 = Swap Valve
40 = Airflow Alarm
41 = Low CW1 Flow
42 = Low CW2 Flow
43 = Surge Arrester

8 FAQs

The aim of this chapter is to collect a list of possible questions/issues directed primarily to the Vertiv service technical support team.

8.1 General FAQs

Question/Issue	Solution
Are the three monitoring protocols available simultaneously?	Yes they are.

8.2 Modbus Related FAQs

Question/Issue	Solution
Is Multi-Master supported?	Yes it is.
Is serial connection RS485 available?	Not directly, but it is possible to connect an ETH/RS485 modbus converter like Moxa MGate 3180 (code 276989).

8.3 SNMP Related FAQs

Question/Issue	Solution
Is the SNMP compatible with v1?	Yes it is.
Is the SNMP v3 available?	No it is not.
Is there a MIB available?	Yes, it comes bundled with the documentation.

8.4 BACnet Related FAQs

Question/Issue	Solution
Does the monitoring port feature the official BACnet certification?	Yes, it is BTL certified.

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Appendices

Appendix A: Technical Support and Contacts

A.1 Technical Support/Service in the United States

Vertiv Group Corporation

24x7 dispatch of technicians for all products.

1-800-543-2378

Liebert® Thermal Management Products

1-800-543-2778

Liebert® Channel Products

1-800-222-5877

Liebert® AC and DC Power Products

1-800-543-2378

A.2 Locations

United States

Vertiv Headquarters

1050 Dearborn Drive

Columbus, OH, 43085, USA

Europe

Via Leonardo Da Vinci 8 Zona Industriale Tognana

35028 Piove Di Sacco (PD) Italy

Asia

7/F, Dah Sing Financial Centre

3108 Gloucester Road

Wanchai, Hong Kong

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