



Object Naming Conventions

The communicated points for the Symbio™ controllers are generally named according to their function. While many of the points are read-only, others include both read and write capability. The established naming convention helps to identify the capabilities of each point. For most points, the suffix identifies the capability according to the following definition. While there are some exceptions, the majority of the points have been defined according to these guidelines.

Suffix	Description
Status	Points with the Status suffix are defined as read-only. The status point reports the value being used by the controller.
Local	Points with the Local suffix are defined as read-only. The local point reports values associated with controller sensors, both wired and wireless. The local value may or may not be actively used by the controller, depending on the presence or absence of a communicated value (BAS). When both a local and communicated value exist, the communicated value is used.
Active	Points with the Active suffix are defined as read-only. Points designated as active are normally the result of the arbitration between a communicated value(BAS) and at least one value local to the equipment, such as a sensor or default setpoint. The active point reports the value being input to the controller.
Setpoint	Points with the Setpoint suffix are defined as either read-only or read/write. For BACnet®, the binary input, analog input and multi-state input points are all read-only. These setpoints report the value currently in use by the controller. The analog value, binary value and multi-state value points are all read/write. These points are provided for use by the building automation system (BAS). When used, these points are written internally to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquish default value/state. Refer to the Appendix for additional information.
Input	Points with the Input suffix are defined as read-only. These points normally reflect the status of a sensor input, either hardwired or communicating wirelessly (Air-Fi®). However, the input point reflects the arbitrated result of the controller sensor input and a communicated value, if present. When both a controller sensor and communicated value exist, the controller will use and report the communicated value.
Arbitrator	Points with the "Arbitrator" suffix are to be used as read-only. The arbitrator prioritizes inputs from communicating points, hardwired points and stored defaults points. The priority array of the arbitration point displays each of the values provided, including the active status, indicating which of the input sources is being used. Refer to the Appendix for additional information.
BAS	Points with the BAS suffix are defined as read/write. These points are provided for use by the building automation system (BAS). When used, these points are written to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquished default value/state. Refer to the Appendix for additional information.
Command	Points with the Command suffix are defined as read/write. These points are written to change the default behavior of the controller. Once written, these point values may be persisted.
Request	Points with the Request suffix are defined as read/write. These points are written to request a change the operating behavior of the controller.



Object Data Points and Diagnostic Data Points

The following tables are sorted as follows:

- Tables are listed by input/output type and sorted by object identifier. These tables provide the user with the unit's type for each object
- Tables are sorted by object name and provide a complete list of object names, types, values/ranges, and descriptions.

Note: Not all points are available to the user. The available data points are defined during self-configuration and are dependent on the type of equipment.

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BACnet®

ACRB Small (UC800)

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Object Identifier	Object Name	Description	Units
10100	Active Chilled Water Setpoint	Active Chilled Water Setpoint	TEMPERATURE
10101	Evaporator Entering Water Temperature	Evaporator Entering Water Temperature	TEMPERATURE
10102	Evaporator Leaving Water Temperature	Evaporator Leaving Water Temperature	TEMPERATURE
10103	Calculated Chiller Capacity	Calculated Chiller Capacity	POWER_COOLING
10104	Active Demand Limit Setpoint	Active Demand Limit Setpoint	PERCENTAGE
10105	Unit Power Consumption	Unit Power Consumption	POWER_ELECTRICAL
10106	Outdoor Air Temperature	Outdoor Air Temperature	TEMPERATURE
10107	Evaporator Refrigerant Gauge Pressure Circuit 1	Evaporator Refrigerant Gauge Pressure Ckt1	PRESSURE_FLUIDIC
10108	Condenser Refrigerant Gauge Pressure Circuit 1	Condenser Refrigerant Gauge Pressure Ckt1	PRESSURE_FLUIDIC
10109	Differential Refrigerant Pressure Circuit 1	Differential Refrigerant Pressure Ckt1	PRESSURE_FLUIDIC
10110	Evaporator Saturated Refrigerant Temperature Circuit 1	Evaporator Saturated Rfgt Temp Ckt1	TEMPERATURE
10111	Condenser Saturated Refrigerant Temperature Circuit 1	Condenser Saturated Rfgt Temp Ckt1	TEMPERATURE
10112	Evaporator Refrigerant Gauge Pressure Circuit 2	Evaporator Refrigerant Gauge Pressure Ckt2	PRESSURE_FLUIDIC
10113	Condenser Refrigerant Gauge Pressure Circuit 2	Condenser Refrigerant Gauge Pressure Ckt2	PRESSURE_FLUIDIC
10114	Differential Refrigerant Pressure Circuit 2	Differential Refrigerant Pressure Ckt2	PRESSURE_FLUIDIC
10115	Evaporator Saturated Refrigerant Temperature Circuit 2	Evaporator Saturated Rfgt Temp Ckt2	TEMPERATURE
10116	Condenser Saturated Refrigerant Temperature Circuit 2	Condenser Saturated Rfgt Temp Ckt2	TEMPERATURE
10117	Refrigerant Discharge Temperature - Compressor 1A	Discharge Temperature Cprsr1A	TEMPERATURE
10118	Oil Gauge Pressure - Compressor 1A	Oil Gauge Pressure - Compressor 1A	PRESSURE_FLUIDIC
10119	Refrigerant Discharge Temperature - Compressor 2A	Discharge Temperature Cprsr2A	TEMPERATURE
10120	Oil Gauge Pressure - Compressor 2A	Oil Gauge Pressure Cprsr2A	PRESSURE_FLUIDIC
10121	Air Flow Percentage Circuit 1	Air Flow Ckt1	PERCENTAGE
10122	Air Flow Percentage Circuit 2	Air Flow Ckt2	PERCENTAGE
10123	Starts - Compressor 1A	Starts Cprsr1A	NONE
10124	Run Time - Compressor 1A	Running Time Cprsr1A	NONE
10125	Compressor 1A Speed Status	Percent Speed Cprsr1A	PERCENTAGE
10126	Motor Winding Temperature 1 Circuit 1	Winding Temp #1 Motor 1A	TEMPERATURE
10127	Motor Winding Temperature 2 Circuit 1	Winding Temp #2 Motor 1A	TEMPERATURE

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Object Identifier	Object Name	Description	Units
10128	Drive Motor Current U RLA Compressor 1A	Motor Current U % RLA AFD 1A	PERCENTAGE
10129	Drive Motor Current V RLA Compressor 1A	Motor Current V % RLA AFD 1A	PERCENTAGE
10130	Drive Motor Current W RLA Compressor 1A	Motor Current W % RLA AFD 1A	PERCENTAGE
10131	Drive Motor Average Current RLA Compressor 1A	Average Motor Current % RLA AFD 1A	PERCENTAGE
10132	Drive Motor Current U Compressor 1A	Motor Current U AFD 1A	CURRENT
10133	Drive Motor Current V Compressor 1A	Motor Current V AFD 1A	CURRENT
10134	Drive Motor Current W Compressor 1A	Motor Current W AFD 1A	CURRENT
10135	Drive Motor Voltage UV Circuit 1	Motor Voltage UV AFD 1A	VOLTAGE
10136	Drive Motor Voltage VW Circuit 1	Motor Voltage VW AFD 1A	VOLTAGE
10137	Drive Motor Voltage WU Circuit 1	Motor Voltage WU AFD 1A	VOLTAGE
10138	Drive Motor Average Voltage Circuit 1	Average Motor Voltage AFD 1A	VOLTAGE
10139	Drive DC Bus Voltage Circuit 1	DC Bus Voltage AFD 1A	VOLTAGE
10140	Drive Output Power Circuit 1	Output Power AFD 1A	POWER_ELECTRICAL
10141	Drive Input Power Circuit 1	Input Power AFD 1A	POWER_ELECTRICAL
10142	Drive Line Average Voltage Circuit 1	Average Input Voltage AFD 1A	VOLTAGE
10143	Drive Average Line Current Circuit 1	Average Input Current AFD 1A	CURRENT
10144	Drive Line Frequency Circuit 1	Estimated Input Frequency AFD 1A	NONE
10145	AFD Frequency Circuit 1	Stator Frequency AFD 1A	NONE
10146	AFD Transistor Temperature Circuit 1	Transistor Temperature AFD 1A	TEMPERATURE
10147	Drive Inverter Base Temperature Circuit 1	Inverter Base Temperature AFD 1A	TEMPERATURE
10148	Drive Rectifier Base Temperature Circuit 1	Rectifier Base Temperature AFD 1A	TEMPERATURE
10149	Starts - Compressor 2A	Starts Cprsr2A	NONE
10150	Run Time - Compressor 2A	Running Time Cprsr2A	NONE
10151	Compressor 2A Speed Status	Percent Speed Cprsr2A	PERCENTAGE
10152	Motor Winding Temperature 1 Circuit 2	Winding Temp #1 Motor 2A	TEMPERATURE
10153	Motor Winding Temperature 2 Circuit 2	Winding Temp #2 Motor 2A	TEMPERATURE
10154	Drive Motor Current U RLA Compressor 2A	Motor Current U % RLA AFD 2A	PERCENTAGE
10155	Drive Motor Current V RLA Compressor 2A	Motor Current V % RLA AFD 2A	PERCENTAGE
10156	Drive Motor Current W RLA Compressor 2A	Motor Current W % RLA AFD 2A	PERCENTAGE
10157	Drive Motor Average Current RLA Compressor 2A	Average Motor Current % RLA AFD 2A	PERCENTAGE
10158	Drive Motor Current U Compressor 2A	Motor Current U AFD 2A	CURRENT
10159	Drive Motor Current V Compressor 2A	Motor Current V AFD 2A	CURRENT
10160	Drive Motor Current W Compressor 2A	Motor Current W AFD 2A	CURRENT
10161	Drive Motor Voltage UV Circuit 2	Motor Voltage UV AFD 2A	VOLTAGE
10162	Drive Motor Voltage VW Circuit 2	Motor Voltage VW AFD 2A	VOLTAGE
10163	Drive Motor Voltage WU Circuit 2	Motor Voltage WU AFD 2A	VOLTAGE

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Object Identifier	Object Name	Description	Units
10164	Drive Motor Average Voltage Circuit 2	Average Motor Voltage AFD 2A	VOLTAGE
10165	Drive DC Bus Voltage Circuit 2	DC Bus Voltage AFD 2A	VOLTAGE
10166	Drive Output Power Circuit 2	Output Power AFD 2A	POWER ELECTRICAL
10167	Drive Input Power Circuit 2	Input Power AFD 2A	POWER ELECTRICAL
10168	Drive Line Average Voltage Circuit 2	Average Input Voltage AFD 2A	VOLTAGE
10169	Drive Average Line Current Circuit 2	Average Input Current AFD 2A	CURRENT
10170	Drive Line Frequency Circuit 2	Estimated Input Frequency AFD 2A	NONE
10171	AFD Frequency Circuit 2	Stator Frequency AFD 2A	NONE
10172	AFD Transistor Temperature Circuit 2	Transistor Temperature AFD 2A	TEMPERATURE
10173	Drive Inverter Base Temperature Circuit 2	Inverter Base Temperature AFD 2A	TEMPERATURE
10174	Drive Rectifier Base Temperature Circuit 2	Rectifier Base Temperature AFD 2A	TEMPERATURE
10175	Number Of Circuits	Number Of Circuits	NONE
10176	Number Of Compressors Circuit 1	Number Of Compressors, Circuit 1	NONE
10177	Number Of Compressors Circuit 2	Number Of Compressors, Circuit 2	NONE
10178	Free Cooling Capacity Status	Free Cooling Capacity	PERCENTAGE
10179	Free Cooling Entering Water Temperature	Free Cooling Entering Water Temperature	TEMPERATURE
10180	Energy Consumption Lifetime	Energy Consumption Lifetime	ENERGY ELECTRICAL
10181	Energy Consumption	Energy Consumption	ENERGY ELECTRICAL
10182	Unit Source ID	Last Logged Diagnostic Spec BAS	NONE
10183	Chiller Design Capacity	Chiller Design Capacity	POWER COOLING
10184	Active Cool/Heat Setpoint Temperature	Active Chilled Water Setpoint	TEMPERATURE
10185	Actual Running Capacity	Chiller Power	PERCENTAGE
10186	Evaporator Water Flow Rate	Approximate Evaporator Water Flow	FLOW FLUIDIC
10187	Evaporator Differential Water Pressure	Evaporator Differential Water Pressure	PRESSURE FLUIDIC
10188	Entering Evaporator Water Gauge Pressure	Evaporator Entering Water Gauge Pressure	PRESSURE FLUIDIC
10189	Leaving Evaporator Water Gauge Pressure	Evaporator Leaving Water Gauge Pressure	PRESSURE FLUIDIC
10190	Evaporator Water Pump Speed Command	Evaporator Water Pump Speed Command	PERCENTAGE
10191	Evaporator Water Pump Speed Feedback	Evaporator Water Pump Speed Feedback	PERCENTAGE
10192	Evaporator Water Pump Speed Setpoint Active	Active Evap Water Pump Speed Setpt	PERCENTAGE
10193	Evaporator Water Pump Flow Rate Setpt Active	Active Evap Water Flow Rate Setpt	FLOW FLUIDIC
10194	Discharge Superheat Compressor 1A	Discharge Superheat Cprsr 1A	TEMPERATURE_DELTA
10195	Discharge Superheat Compressor 2A	Discharge Superheat Cprsr 2A	TEMPERATURE_DELTA
10196	Current L1	Meter Line Current L1	CURRENT
10197	Current L2	Meter Line Current L2	CURRENT
10198	Current L3	Meter Line Current L3	CURRENT
10199	Average Current	Meter Average Line Current	CURRENT
10200	Voltage L1-L2	Meter Line Voltage L1-L2	VOLTAGE
10201	Voltage L2-L3	Meter Line Voltage L2-L3	VOLTAGE

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10202	Voltage L1-L3	Meter Line Voltage L1-L3	VOLTAGE
10203	Average Voltage L-L	Meter Average Line Voltage	VOLTAGE
10204	Line Frequency	Unit Line Frequency	NONE
10205	Power Factor	Unit Power Factor	NONE
10206	Unit Power Demand	Chiller Power Demand	POWER_ELECTRICAL
10207	Free Cooling Entering Glycol Temperature	Free Cooling Entering Glycol Temperature	TEMPERATURE
10208	Free Cooling Leaving Glycol Temperature	Free Cooling Leaving Glycol Temperature	TEMPERATURE
10209	Free Cooling Glycol Pressure	Free Cooling Glycol Pressure	PRESSURE_FLUIDIC
10210	Free Cooling Valve Position Status	Free Cooling Valve Percent Open	PERCENTAGE
10211	Free Cooling Bypass Valve Position Status	Free Cooling Bypass Valve Percent Open	PERCENTAGE
10212	Free Cooling Pump Override Time Remaining	Free Cooling Pump Override Time Remaining	NONE
10213	Free Cooling Target Offset	Free Cooling Target Offset	TEMPERATURE_DELTA
10214	Free Cooling Dedicated Fans Airflow	Free Cooling Dedicated Fan Air Flow	PERCENTAGE
10215	Free Cooling Waterside Bypass Valve Status	Free Cooling Waterside Byp Vlv Pct Open	PERCENTAGE
10216	Evaporator Refrigerant Pressure Circuit 1	Evaporator Refrigerant Absolute Pressure Ckt1	PRESSURE_FLUIDIC
10217	Condenser Refrigerant Pressure Circuit 1	Condenser Refrigerant Absolute Pressure Ckt1	PRESSURE_FLUIDIC
10218	Evaporator Refrigerant Pressure Circuit 2	Evaporator Refrigerant Absolute Pressure Ckt2	PRESSURE_FLUIDIC
10219	Condenser Refrigerant Pressure Circuit 2	Condenser Refrigerant Absolute Pressure Ckt2	PRESSURE_FLUIDIC
10220	Oil Pressure - Compressor 1A	Oil Absolute Pressure - Compressor 1A	PRESSURE_FLUIDIC
10221	Oil Pressure - Compressor 2A	Oil Absolute Pressure Cprsr2A	PRESSURE_FLUIDIC
10222	Entering Evaporator Water Pressure	Evaporator Entering Water Absolute Pressure	PRESSURE_FLUIDIC
10223	Leaving Evaporator Water Pressure	Evaporator Leaving Water Absolute Pressure	PRESSURE_FLUIDIC
10224	AFD Coolant Supply Temperature Compressor 1A	Drive Cooling Supply Temperature Ckt1	TEMPERATURE
10225	AFD Coolant Supply Temperature Compressor 2A	Drive Cooling Supply Temperature Ckt2	TEMPERATURE
10226	Evaporator Approach Temperature Circuit 1	Evaporator Approach Temperature Ckt1	TEMPERATURE_DELTA
10227	Evaporator Approach Temperature Circuit 2	Evaporator Approach Temperature Ckt2	TEMPERATURE_DELTA

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Object Identifier	Object Name	Description	Units
10100	Chilled Water Setpoint	BAS Chilled Water Setpoint	TEMPERATURE
10101	Demand Limit Setpoint	BAS Demand Limit Setpoint	PERCENTAGE
10102	Evaporator Water Pump Flow Rate Setpt BAS	BAS Evap Water Flow Rate Setpt	FLOW_FLUIDIC
10103	Evaporator Water Pump Speed Setpt BAS	BAS Evap Water Pump Speed Setpt	PERCENTAGE

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Object Identifier	Object Name	Description
10100	Run Enable	Run Enable
10101	Local Setpoint Control	Local Setpoint Control
10102	Limit Mode Relay Status	Limit Mode Relay Status
10103	Chiller Running State	Chiller Running State
10104	Maximum Capacity	Maximum Capacity Relay
10105	Evaporator Water Pump Command	Evaporator Water Pump Command
10106	Evaporator Water Flow Status	Evaporator Water Flow Status
10107	Manual Override Exists	Manual Override Exists
10108	Emergency Stop	Emergency Stop
10117	Compressor 1A Running Status	Running Status Cprsr1A
10118	Compressor 2A Running Status	Running Status Cprsr2A
10119	Free Cooling Active	Free Cooling Active
10120	External Auto Stop Status	External Auto Stop
10121	Front Panel Auto Stop Status	Front Panel Auto/Stop
10122	Noise Reduction Request Active	Noise Reduction Request Active
10123	Evaporator Water Pump 1 Inverter Running Status	Evap Water Pump 1 Inverter Running Status
10124	Evaporator Water Pump 1 Fault Status	Evaporator Water Pump 1 Fault Status
10125	Circuit 1 Cooling Available	Circuit is available to start
10126	Circuit 2 Cooling Available	Circuit is available to start
10127	Oil Sensor Circuit 1	Oil Loss Level Sensor Ckt1
10128	Oil Sensor Circuit 2	Oil Loss Level Sensor Ckt2
10129	Free Cooling Pump Command Status	Free Cooling Pump Command
10130	Free Cooling Front Panel Command Status	Front Panel Free Cooling Command
10131	Free Cooling Glycol Flow Status	Free Cooling Glycol Flow Status

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Object Identifier	Object Name	Object States
10109	Diagnostic Present	0= Normal 1= In Alarm
10110	Diagnostic Shutdown Present	0= Normal 1= In Alarm
10111	Diagnostic: Manual Reset Required	0= Normal 1= In Alarm
10112	Diagnostic: Local Manual Reset Required	0= Normal 1= In Alarm
10113	Diagnostic Present: Information	0= Normal 1= In Alarm
10114	Diagnostic Present: Advisory	0= Normal 1= In Alarm
10115	Diagnostic Present: Critical	0= Normal 1= In Alarm
10116	Diagnostic Present: Service Required	0= Normal 1= In Alarm
11000	Diagnostic: MP: Invalid Configuration	0= Normal 1= In Alarm
11001	Diagnostic: Check Clock	0= Normal 1= In Alarm
11002	Diagnostic: MP: Reset Has Occurred	0= Normal 1= In Alarm
11003	Comm Loss: Outdoor Air Temperature	0= Normal 1= In Alarm
11004	Diagnostic: Outdoor Air Temperature Sensor	0= Normal 1= In Alarm
11005	Diagnostic: Software Error 1001: Call Trane Service	0= Normal 1= In Alarm
11006	Diagnostic: Software Error 1002: Call Trane Service	0= Normal 1= In Alarm
11007	Diagnostic: Software Error 1003: Call Trane Service	0= Normal 1= In Alarm
11009	Comm Loss: Energy Meter	0= Normal 1= In Alarm
11010	Diagnostic: Energy Meter Write Command Failure	0= Normal 1= In Alarm
11011	Comm Loss: Condenser Rfgt Pressure - Ckt1	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11012	Comm Loss: Condenser Rfgt Pressure - Ckt2	0= Normal 1= In Alarm
11013	Comm Loss: Suction Rfgt Pressure, Ckt1	0= Normal 1= In Alarm
11014	Comm Loss: Suction Rfgt Pressure, Ckt2	0= Normal 1= In Alarm
11015	Diagnostic: Pumpdown Terminated - Ckt1	0= Normal 1= In Alarm
11016	Diagnostic: Pumpdown Terminated - Ckt2	0= Normal 1= In Alarm
11017	Diagnostic: Condenser Rfgt Pressure Transducer - Ckt1	0= Normal 1= In Alarm
11018	Diagnostic: Condenser Rfgt Pressure Transducer - Ckt2	0= Normal 1= In Alarm
11019	Diagnostic: Suction Pressure Rfgt Transducer - Cprsr1A	0= Normal 1= In Alarm
11020	Diagnostic: Suction Pressure Rfgt Transducer - Cprsr2A	0= Normal 1= In Alarm
11021	Diagnostic: Evap Spillover Liquid Level Sensor - Ckt1	0= Normal 1= In Alarm
11022	Diagnostic: Evap Spillover Liquid Level Sensor - Ckt2	0= Normal 1= In Alarm
11023	Comm Loss: Evap Rfgt Liquid Level - Ckt1	0= Normal 1= In Alarm
11024	Comm Loss: Evap Rfgt Liquid Level - Ckt2	0= Normal 1= In Alarm
11025	Comm Loss: External Ckt Lockout - Ckt1	0= Normal 1= In Alarm
11026	Comm Loss: External Ckt Lockout - Ckt2	0= Normal 1= In Alarm
11027	Diagnostic: Evap Rfgt Pool Temp Sensor - Ckt1	0= Normal 1= In Alarm
11028	Diagnostic: Evap Rfgt Pool Temp Sensor - Ckt2	0= Normal 1= In Alarm
11029	Comm Loss: Evap Rfgt Pool Temp, Ckt1	0= Normal 1= In Alarm
11030	Comm Loss: Evap Rfgt Pool Temp, Ckt2	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11031	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt1	0= Normal 1= In Alarm
11032	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt2	0= Normal 1= In Alarm
11033	Diagnostic: Drive Cooling Supply Temp Sensor Ckt1	0= Normal 1= In Alarm
11034	Diagnostic: Drive Cooling Supply Temp Sensor Ckt2	0= Normal 1= In Alarm
11035	Comm Loss: Drive Cooling Supply Temp Ckt1	0= Normal 1= In Alarm
11036	Comm Loss: Drive Cooling Supply Temp Ckt2	0= Normal 1= In Alarm
11037	Comm Loss: Drive Cooling Bypass Valve Ckt1	0= Normal 1= In Alarm
11038	Comm Loss: Drive Cooling Bypass Valve Ckt2	0= Normal 1= In Alarm
11039	Comm Loss: Drive Cooling Inline Valve Ckt1	0= Normal 1= In Alarm
11040	Comm Loss: Drive Cooling Inline Valve Ckt2	0= Normal 1= In Alarm
11041	Comm Loss: Evaporator Water Pump Relay	0= Normal 1= In Alarm
11042	Comm Loss: Evaporator Water Flow Switch	0= Normal 1= In Alarm
11043	Comm Loss: Off-cycle Freeze Prot Relay	0= Normal 1= In Alarm
11044	Comm Loss: Evaporator Pump Speed Command	0= Normal 1= In Alarm
11045	Comm Loss: Evaporator Pump Speed Feedback	0= Normal 1= In Alarm
11046	Comm Loss: Evaporator Pump Inverter Running Status	0= Normal 1= In Alarm
11047	Comm Loss: Evaporator Pump Fault Input	0= Normal 1= In Alarm
11048	Diagnostic: Evaporator Water Pump Fault	0= Normal 1= In Alarm
11049	Diagnostic: Evaporator Water Pump Speed Feedback	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11050	Comm Loss: External Auto/Stop	0= Normal 1= In Alarm
11051	Comm Loss: Emergency Stop	0= Normal 1= In Alarm
11052	Diagnostic: Emergency Stop	0= Normal 1= In Alarm
11053	Diagnostic: External Chilled/Hot Water Setpoint	0= Normal 1= In Alarm
11054	Comm Loss: Ext Chilled/Hot Water Setpoint	0= Normal 1= In Alarm
11055	Comm Loss: Op Status Programmable Relays	0= Normal 1= In Alarm
11056	Diagnostic: External Demand Limit Setpoint	0= Normal 1= In Alarm
11057	Comm Loss: Ext Demand Limit Setpoint	0= Normal 1= In Alarm
11059	Comm Loss: Chiller % Capacity Output	0= Normal 1= In Alarm
11060	Comm Loss: Ext Noise Reduction Request	0= Normal 1= In Alarm
11061	Diagnostic: Low Evaporator Rfgt Temperature - Ckt1	0= Normal 1= In Alarm
11062	Diagnostic: Low Evaporator Rfgt Temperature - Ckt2	0= Normal 1= In Alarm
11063	Diagnostic: Low Evaporator Rfgt Pressure - Ckt1	0= Normal 1= In Alarm
11064	Diagnostic: Low Evaporator Rfgt Pressure - Ckt2	0= Normal 1= In Alarm
11065	Diagnostic: High Differential Rfgt Pressure - Ckt1	0= Normal 1= In Alarm
11066	Diagnostic: High Differential Rfgt Pressure - Ckt2	0= Normal 1= In Alarm
11067	Diagnostic: High Refrigerant Pressure Ratio - Ckt1	0= Normal 1= In Alarm
11068	Diagnostic: High Refrigerant Pressure Ratio - Ckt2	0= Normal 1= In Alarm
11069	Diagnostic: Low Evaporator Temp (Unit Off) - Ckt1	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11070	Diagnostic: Low Evaporator Temp (Unit Off) - Ckt2	0= Normal 1= In Alarm
11071	Diagnostic: Evaporator Approach Error - Ckt1	0= Normal 1= In Alarm
11072	Diagnostic: Evaporator Approach Error - Ckt2	0= Normal 1= In Alarm
11073	Diagnostic: Low Drive Cooling Supply Temperature - Ckt1	0= Normal 1= In Alarm
11074	Diagnostic: Low Drive Cooling Supply Temperature - Ckt2	0= Normal 1= In Alarm
11075	Diagnostic: High Evaporator Refrigerant Pressure	0= Normal 1= In Alarm
11076	Diagnostic: High Evaporator Water Temperature	0= Normal 1= In Alarm
11077	Diagnostic: Evaporator Water Flow Overdue	0= Normal 1= In Alarm
11078	Diagnostic: Evaporator Water Flow Lost	0= Normal 1= In Alarm
11079	Diagnostic: High Pressure Cutout - Cprsr 1A	0= Normal 1= In Alarm
11080	Diagnostic: High Pressure Cutout - Cprsr2A	0= Normal 1= In Alarm
11081	Diagnostic: Excessive Condenser Pressure - Ckt1	0= Normal 1= In Alarm
11082	Diagnostic: Excessive Condenser Pressure - Ckt2	0= Normal 1= In Alarm
11083	Comm Loss: External Ice Building Command	0= Normal 1= In Alarm
11084	Comm Loss: Ice Building Status Relay	0= Normal 1= In Alarm
11085	Comm Loss: Evap Entering Water Temp	0= Normal 1= In Alarm
11086	Diagnostic: Evaporator Entering Water Temp Sensor	0= Normal 1= In Alarm
11087	Comm Loss: Evap Leaving Water Temp	0= Normal 1= In Alarm
11088	Diagnostic: Evaporator Leaving Water Temp Sensor	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11089	Diagnostic: Low Evaporator Water Temp (Unit On)	0= Normal 1= In Alarm
11090	Diagnostic: Low Evaporator Water Temp (Unit Off)	0= Normal 1= In Alarm
11091	Diagnostic: Evap Water Flow (Entering Water Temp)	0= Normal 1= In Alarm
11092	Comm Loss: Evap Diff Water Pressure	0= Normal 1= In Alarm
11093	Diagnostic: Evaporator Diff Water Pressure Xdcr	0= Normal 1= In Alarm
11094	Diagnostic: Evaporator Entering Water Pressure	0= Normal 1= In Alarm
11095	Diagnostic: Evaporator Leaving Water Pressure	0= Normal 1= In Alarm
11096	Comm Loss: Evaporator Entering Water Pressure	0= Normal 1= In Alarm
11097	Comm Loss: Evaporator Leaving Water Pressure	0= Normal 1= In Alarm
11098	Diagnostic: Low Evaporator Water Flow	0= Normal 1= In Alarm
11099	Diagnostic: Low Evaporator Entering Water Pressure	0= Normal 1= In Alarm
11100	Diagnostic: Low Evaporator Leaving Water Pressure	0= Normal 1= In Alarm
11101	Diagnostic: Low Oil Return or AFD Cooling - Ckt1	0= Normal 1= In Alarm
11102	Diagnostic: Low Oil Return or AFD Cooling - Ckt2	0= Normal 1= In Alarm
11103	Comm Loss: Fan Inverter Fault, Ckt1	0= Normal 1= In Alarm
11104	Comm Loss: Fan Inverter Fault, Ckt2	0= Normal 1= In Alarm
11105	Comm Loss: Fan Inverter Speed Command, Ckt1	0= Normal 1= In Alarm
11106	Comm Loss: Fan Inverter Speed Command, Ckt2	0= Normal 1= In Alarm
11107	Diagnostic: Condenser Fan Inverter Fault - Ckt1	0= Normal 1= In Alarm



Object Identifier	Object Name	Object States
11108	Diagnostic: Condenser Fan Inverter Fault - Ckt2	0= Normal 1= In Alarm
11109	Comm Loss: Condenser Fan Enable, Ckt1	0= Normal 1= In Alarm
11110	Comm Loss: Condenser Fan Enable, Ckt2	0= Normal 1= In Alarm
11111	Comm Loss: Fan Inv Spd Cmd, Shrd Ckt1&2	0= Normal 1= In Alarm
11112	Comm Loss: Cond Fan Enbl Shared Ckt 1&2	0= Normal 1= In Alarm
11113	Comm Loss: Expansion Valve, Ckt1	0= Normal 1= In Alarm
11114	Comm Loss: Expansion Valve, Ckt2	0= Normal 1= In Alarm
11115	Diagnostic: Oil Analysis Recommended - Ckt1	0= Normal 1= In Alarm
11116	Diagnostic: Oil Analysis Recommended - Ckt2	0= Normal 1= In Alarm
11117	Diagnostic: Oil Filter Change Recommended - Cprsr1A	0= Normal 1= In Alarm
11118	Diagnostic: Oil Filter Change Recommended - Cprsr2A	0= Normal 1= In Alarm
11119	Diagnostic: Starts or Hours Modified - Cprsr1A	0= Normal 1= In Alarm
11120	Comm Loss: Var Vi Valve - Cprsr 1A	0= Normal 1= In Alarm
11121	Diagnostic: Starts or Hours Modified - Cprsr2A	0= Normal 1= In Alarm
11122	Comm Loss: Var Vi Valve - Cprsr 2A	0= Normal 1= In Alarm
11123	Diagnostic: No Differential Rfqt Pressure - Ckt1	0= Normal 1= In Alarm
11124	Diagnostic: No Differential Rfqt Pressure - Ckt2	0= Normal 1= In Alarm
11125	Diagnostic: Low Differential Rfqt Pressure - Ckt1	0= Normal 1= In Alarm
11126	Diagnostic: Low Differential Rfqt Pressure - Ckt2	0= Normal 1= In Alarm



Object Identifier	Object Name	Object States
11127	Diagnostic: Oil Flow Protection Fault - Ckt1	0= Normal 1= In Alarm
11128	Diagnostic: Oil Flow Protection Fault - Ckt2	0= Normal 1= In Alarm
11129	Diagnostic: Low Oil Flow - Cprsr 1A	0= Normal 1= In Alarm
11130	Diagnostic: Low Oil Flow - Cprsr 2A	0= Normal 1= In Alarm
11131	Comm Loss: Cprsr Discharge Rfgt Temp, Ckt1	0= Normal 1= In Alarm
11132	Comm Loss: Cprsr Discharge Rfgt Temp, Ckt2	0= Normal 1= In Alarm
11133	Diagnostic: Discharge Rfgt Temp Sensor - Cprsr1A	0= Normal 1= In Alarm
11134	Diagnostic: Discharge Rfgt Temp Sensor - Cprsr2A	0= Normal 1= In Alarm
11135	Comm Loss: Oil Pressure, Ckt1	0= Normal 1= In Alarm
11136	Comm Loss: Oil Pressure, Ckt2	0= Normal 1= In Alarm
11137	Diagnostic: Oil Pressure Transducer - Cprsr1A	0= Normal 1= In Alarm
11138	Diagnostic: Oil Pressure Transducer - Cprsr2A	0= Normal 1= In Alarm
11139	Diagnostic: Low Discharge Superheat - Ckt1	0= Normal 1= In Alarm
11140	Diagnostic: Low Discharge Superheat - Ckt2	0= Normal 1= In Alarm
11141	Diagnostic: Very Low Evaporator Rfgt Pressure - Ckt1	0= Normal 1= In Alarm
11142	Diagnostic: Very Low Evaporator Rfgt Pressure - Ckt2	0= Normal 1= In Alarm
11143	Comm Loss: Oil Loss Level Sensor Input, Ckt1	0= Normal 1= In Alarm
11144	Comm Loss: Oil Loss Level Sensor Input, Ckt2	0= Normal 1= In Alarm
11145	Diagnostic: Loss of Oil (Stopped) - Cprsr1A	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11146	Diagnostic: Loss of Oil (Stopped) - Cprsr2A	0= Normal 1= In Alarm
11147	Diagnostic: Loss of Oil (Running) - Cprsr1A	0= Normal 1= In Alarm
11148	Diagnostic: Loss of Oil (Running) - Cprsr2A	0= Normal 1= In Alarm
11149	Diagnostic: High Discharge Temperature - Cprsr1A	0= Normal 1= In Alarm
11150	Diagnostic: High Discharge Temperature - Cprsr2A	0= Normal 1= In Alarm
11151	Diagnostic: High Motor Winding Temperature - Cprsr1A	0= Normal 1= In Alarm
11152	Diagnostic: High Motor Winding Temperature - Cprsr2A	0= Normal 1= In Alarm
11153	Comm Loss: Winding Temp 1, Cprsr1A	0= Normal 1= In Alarm
11154	Comm Loss: Winding Temp 1, Cprsr2A	0= Normal 1= In Alarm
11155	Comm Loss: Winding Temp 2, Cprsr1A	0= Normal 1= In Alarm
11156	Comm Loss: Winding Temp 2, Cprsr2A	0= Normal 1= In Alarm
11157	Diagnostic: Motor Winding Temp Sensor - Cprsr1A	0= Normal 1= In Alarm
11158	Diagnostic: Motor Winding Temp Sensor - Cprsr2A	0= Normal 1= In Alarm
11159	Diagnostic: Failure to Arm or Start - AFD 1A	0= Normal 1= In Alarm
11160	Diagnostic: Failure to Arm or Start - AFD 2A	0= Normal 1= In Alarm
11161	Comm Loss: AFD 1A	0= Normal 1= In Alarm
11162	Comm Loss: AFD 2A	0= Normal 1= In Alarm
11163	Diagnostic: Unexpected Shutdown - AFD1A	0= Normal 1= In Alarm
11164	Diagnostic: Unexpected Shutdown - AFD2A	0= Normal 1= In Alarm



Object Identifier	Object Name	Object States
11165	Diagnostic: Interrupt Failure - AFD1A	0= Normal 1= In Alarm
11166	Diagnostic: Interrupt Failure - AFD2A	0= Normal 1= In Alarm
11168	Diagnostic: AFD 1A DSP Board Over Temp	0= Normal 1= In Alarm
11169	Diagnostic: AFD 2A DSP Board Over Temp	0= Normal 1= In Alarm
11170	Diagnostic: AFD 1A DSP Board Initialization Failure	0= Normal 1= In Alarm
11171	Diagnostic: AFD 2A DSP Board Initialization Failure	0= Normal 1= In Alarm
11172	Diagnostic: AFD 1A DSP Board ID Error	0= Normal 1= In Alarm
11173	Diagnostic: AFD 2A DSP Board ID Error	0= Normal 1= In Alarm
11174	Diagnostic: AFD 1A Non-Volatile Memory Failure	0= Normal 1= In Alarm
11175	Diagnostic: AFD 2A Non-Volatile Memory Failure	0= Normal 1= In Alarm
11176	Diagnostic: AFD 1A A/D Calibration Error	0= Normal 1= In Alarm
11177	Diagnostic: AFD 2A A/D Calibration Error	0= Normal 1= In Alarm
11178	Diagnostic: AFD 1A Voltage Transient Protection Loss	0= Normal 1= In Alarm
11179	Diagnostic: AFD 2A Voltage Transient Protection Loss	0= Normal 1= In Alarm
11180	Diagnostic: AFD 1A Watchdog Timer Overflow	0= Normal 1= In Alarm
11181	Diagnostic: AFD 2A Watchdog Timer Overflow	0= Normal 1= In Alarm
11184	Diagnostic: AFD 1A Comm Loss: Main Processor	0= Normal 1= In Alarm
11185	Diagnostic: AFD 2A Comm Loss: Main Processor	0= Normal 1= In Alarm
11186	Diagnostic: AFD 1A General Failure	0= Normal 1= In Alarm



Object Identifier	Object Name	Object States
11187	Diagnostic: AFD 2A General Failure	0= Normal 1= In Alarm
11188	Diagnostic: AFD 1A Gate Drive Module Comm Loss	0= Normal 1= In Alarm
11189	Diagnostic: AFD 2A Gate Drive Module Comm Loss	0= Normal 1= In Alarm
11190	Diagnostic: AFD 1A Gate Drive Fault	0= Normal 1= In Alarm
11191	Diagnostic: AFD 2A Gate Drive Fault	0= Normal 1= In Alarm
11192	Diagnostic: AFD 1A Over Speed	0= Normal 1= In Alarm
11193	Diagnostic: AFD 2A Over Speed	0= Normal 1= In Alarm
11194	Diagnostic: AFD 1A Motor Current Overload	0= Normal 1= In Alarm
11195	Diagnostic: AFD 2A Motor Current Overload	0= Normal 1= In Alarm
11196	Diagnostic: AFD 1A Ground Fault	0= Normal 1= In Alarm
11197	Diagnostic: AFD 2A Ground Fault	0= Normal 1= In Alarm
11198	Diagnostic: AFD 1A Output Phase Loss	0= Normal 1= In Alarm
11199	Diagnostic: AFD 2A Output Phase Loss	0= Normal 1= In Alarm
11200	Diagnostic: AFD 1A Low Rotor Flux Feedback	0= Normal 1= In Alarm
11201	Diagnostic: AFD 2A Low Rotor Flux Feedback	0= Normal 1= In Alarm
11202	Diagnostic: AFD 1A Bump Failure	0= Normal 1= In Alarm
11203	Diagnostic: AFD 2A Bump Failure	0= Normal 1= In Alarm
11204	Diagnostic: AFD 1A Compressor Start Failure	0= Normal 1= In Alarm
11205	Diagnostic: AFD 2A Compressor Start Failure	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11206	Diagnostic: AFD 1A Instantaneous Current Overload	0= Normal 1= In Alarm
11207	Diagnostic: AFD 2A Instantaneous Current Overload	0= Normal 1= In Alarm
11208	Diagnostic: AFD 1A Desaturation Detected	0= Normal 1= In Alarm
11209	Diagnostic: AFD 2A Desaturation Detected	0= Normal 1= In Alarm
11210	Diagnostic: AFD 1A Current Sensor Self Test Failure	0= Normal 1= In Alarm
11211	Diagnostic: AFD 2A Current Sensor Self Test Failure	0= Normal 1= In Alarm
11212	Diagnostic: AFD 1A IGBT Self Test Failure	0= Normal 1= In Alarm
11213	Diagnostic: AFD 2A IGBT Self Test Failure	0= Normal 1= In Alarm
11214	Diagnostic: AFD 1A Gate Kill Active	0= Normal 1= In Alarm
11215	Diagnostic: AFD 2A Gate Kill Active	0= Normal 1= In Alarm
11216	Diagnostic: AFD 1A Load Inductor High Temperature	0= Normal 1= In Alarm
11217	Diagnostic: AFD 2A Load Inductor High Temperature	0= Normal 1= In Alarm
11218	Diagnostic: AFD 1A 12-Pulse or Auto Transf High Temp	0= Normal 1= In Alarm
11219	Diagnostic: AFD 2A 12-Pulse or Auto Transf High Temp	0= Normal 1= In Alarm
11220	Diagnostic: AFD 1A Inverter Heatsink Over Temp	0= Normal 1= In Alarm
11221	Diagnostic: AFD 2A Inverter Heatsink Over Temp	0= Normal 1= In Alarm
11222	Diagnostic: AFD 1A Rectifier Heatsink Over Temp	0= Normal 1= In Alarm
11223	Diagnostic: AFD 2A Rectifier Heatsink Over Temp	0= Normal 1= In Alarm
11224	Diagnostic: AFD 1A Estimated Junction Over Temp	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11225	Diagnostic: AFD 2A Estimated Junction Over Temp	0= Normal 1= In Alarm
11226	Diagnostic: AFD 1A Gate Drive Board Over Temp	0= Normal 1= In Alarm
11227	Diagnostic: AFD 2A Gate Drive Board Over Temp	0= Normal 1= In Alarm
11228	Diagnostic: AFD 1A Bus Over Voltage	0= Normal 1= In Alarm
11229	Diagnostic: AFD 2A Bus Over Voltage	0= Normal 1= In Alarm
11230	Diagnostic: AFD 1A Bus Under Voltage	0= Normal 1= In Alarm
11231	Diagnostic: AFD 2A Bus Under Voltage	0= Normal 1= In Alarm
11232	Diagnostic: AFD 1A IMC 24V Low Voltage	0= Normal 1= In Alarm
11233	Diagnostic: AFD 2A IMC 24V Low Voltage	0= Normal 1= In Alarm
11234	Diagnostic: AFD 1A AHD Frequency Out of Range	0= Normal 1= In Alarm
11235	Diagnostic: AFD 2A AHD Frequency Out of Range	0= Normal 1= In Alarm
11236	Diagnostic: AFD 1A Bus Voltage Ripple Too High	0= Normal 1= In Alarm
11237	Diagnostic: AFD 2A Bus Voltage Ripple Too High	0= Normal 1= In Alarm
11238	Diagnostic: AFD 1A DSP Board Low Voltage Failure	0= Normal 1= In Alarm
11239	Diagnostic: AFD 2A DSP Board Low Voltage Failure	0= Normal 1= In Alarm
11240	Diagnostic: Failure to Arm or Hold - AFD 1A	0= Normal 1= In Alarm
11241	Diagnostic: Failure to Arm or Hold - AFD 2A	0= Normal 1= In Alarm
11242	Diagnostic: AFD 1A Loss of AHD Sync Signal	0= Normal 1= In Alarm
11243	Diagnostic: AFD 2A Loss of AHD Sync Signal	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11244	Diagnostic: AFD 1A AHD Sync Signal Error	0= Normal 1= In Alarm
11245	Diagnostic: AFD 2A AHD Sync Signal Error	0= Normal 1= In Alarm
11246	Diagnostic: AFD 1A Excessive AHD Inhibit	0= Normal 1= In Alarm
11247	Diagnostic: AFD 2A Excessive AHD Inhibit	0= Normal 1= In Alarm
11248	Diagnostic: AFD 1A Gate Drive Low Voltage Failure	0= Normal 1= In Alarm
11249	Diagnostic: AFD 2A Gate Drive Low Voltage Failure	0= Normal 1= In Alarm
11250	Diagnostic: AFD 1A Temperature Sensor Warning	0= Normal 1= In Alarm
11251	Diagnostic: AFD 2A Temperature Sensor Warning	0= Normal 1= In Alarm
11252	Diagnostic: AFD 1A Motor Shorted	0= Normal 1= In Alarm
11253	Diagnostic: AFD 2A Motor Shorted	0= Normal 1= In Alarm
11254	Diagnostic: AFD 1A Over Temperature	0= Normal 1= In Alarm
11255	Diagnostic: AFD 2A Over Temperature	0= Normal 1= In Alarm
11256	Diagnostic: AFD 1A Precharge Fault	0= Normal 1= In Alarm
11257	Diagnostic: AFD 2A Precharge Fault	0= Normal 1= In Alarm
11258	Diagnostic: AFD 1A Input Phase Loss	0= Normal 1= In Alarm
11259	Diagnostic: AFD 2A Input Phase Loss	0= Normal 1= In Alarm
11260	Diagnostic: AFD 1A Motor Fault	0= Normal 1= In Alarm
11261	Diagnostic: AFD 2A Motor Fault	0= Normal 1= In Alarm
11262	Diagnostic: AFD 1A Customized Protection Fault	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11263	Diagnostic: AFD 2A Customized Protection Fault	0= Normal 1= In Alarm
11264	Diagnostic: AFD 1A Input Transf or Filter Over Temp	0= Normal 1= In Alarm
11265	Diagnostic: AFD 2A Input Transf or Filter Over Temp	0= Normal 1= In Alarm
11266	Diagnostic: AFD 1A Loss Of Motor Control	0= Normal 1= In Alarm
11267	Diagnostic: AFD 2A Loss Of Motor Control	0= Normal 1= In Alarm
11268	Comm Loss: Free Cooling Entering Water Temperature	0= Normal 1= In Alarm
11269	Diagnostic: Free Cooling Entering Water Temperature	0= Normal 1= In Alarm
11270	Comm Loss: Free Cooling Valve	0= Normal 1= In Alarm
11271	Comm Loss: Free Cooling Bypass Valve	0= Normal 1= In Alarm
11272	Comm Loss: Free Cooling Entering Glycol Temperature	0= Normal 1= In Alarm
11273	Diagnostic: Free Cooling Entering Glycol Temperature	0= Normal 1= In Alarm
11274	Comm Loss: Free Cooling Leaving Glycol Temperature	0= Normal 1= In Alarm
11275	Diagnostic: Free Cooling Leaving Glycol Temperature	0= Normal 1= In Alarm
11276	Comm Loss: Free Cooling Pump	0= Normal 1= In Alarm
11277	Diagnostic: Low Glycol Temp Free Cooling	0= Normal 1= In Alarm
11278	Diagnostic: Free Cooling Glycol Temperature Equalization Overdue	0= Normal 1= In Alarm
11279	Diagnostic: Free Cooling Glycol Flow Overdue	0= Normal 1= In Alarm
11280	Comm Loss: Free Cooling Glycol Flow Switch	0= Normal 1= In Alarm
11281	Comm Loss: Free Cooling Glycol Pressure	0= Normal 1= In Alarm

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Object Identifier	Object Name	Object States
11282	Diagnostic: Free Cooling Glycol Pressure	0= Normal 1= In Alarm
11283	Diagnostic: Low Glycol Pressure Free Cooling	0= Normal 1= In Alarm
11284	Comm Loss: Free Cooling Glycol Pump Fault	0= Normal 1= In Alarm
11285	Diagnostic: Free Cooling Glycol Pump Fault	0= Normal 1= In Alarm
11286	Diagnostic: Free Cooling Glycol Flow Lost	0= Normal 1= In Alarm
11287	Comm Loss: Free Cooling Waterside Bypass Valve	0= Normal 1= In Alarm
11288	Comm Loss: Free Cooling Dedicated Fan Enable	0= Normal 1= In Alarm
11289	Comm Loss: Free Cooling Dedicated Fan Inverter Speed Command	0= Normal 1= In Alarm
11290	Comm Loss: Free Cooling Dedicated Fan Inverter Fault	0= Normal 1= In Alarm
11291	Diagnostic: Free Cooling Dedicated Fan Inverter Fault	0= Normal 1= In Alarm
11292	Diagnostic: Energy Meter Write Value Failure	0= Normal 1= In Alarm

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Object Identifier	Object Name	Description
10100	Reset Diagnostic	BAS Reset Diagnostic
10101	Noise Reduction Request BAS	BAS Noise Reduction Request
10102	Chiller Auto Stop Command BAS	BAS Chiller Auto Stop Command
10103	Free Cooling Auto Stop Command BAS	BAS Free Cooling Auto Stop Command
10104	Free Cooling Compressor Lockout	BAS Free Cooling Compressor Lockout
10105	Circuit 1 Lockout BAS	BAS Lockout of Circuit 1
10106	Circuit 2 Lockout BAS	BAS Lockout of Circuit 2
10107	Energy Consumption Reset	Energy Consumption Reset

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Object Identifier	Object Name	Description	Object States
10100	Running Mode	Chiller Running Status	Chiller Off; Chiller In Start Mode; Chiller In Run Mode; Chiller In Pre-Shutdown Mode; Chiller In Service Mode
10101	Operating Mode	Operating Mode	Cool; Heat; Ice Making; Free Cooling
10102	Chiller Setpoint Source	Setpoint Source	BAS; External; Front Panel
10103	Refrigerant Type	Refrigerant Type	R-11; R-12; R-22; R-123; R-134a; R-407C; R-410A; R-113; R-114; R-500; R-502; R-404A; R-513A; R-1233zd(E); R-514A; R-1234ze(E)
10104	Cooling Type	Cooling Type	Water Cooled; Air Cooled
10105	Manufacture Location	Manufacture Location	Field Applied; La Crosse; Pueblo; Charmes; Rushville; Macon; Waco; Lexington; Forsyth; Clarksville; Ft. Smith; Penang; Colchester; Curitiba; Taicang; Taiwan; Epinal; Golbey
10106	Model Information [GEN2]	Model Information	CVHF; CVGF; CVHS; RTAE; RTAF; RTHA; RTHB; RTHC; RTHD; RTWE; CTVD; CVR; CVHH; CDHH; VMAX; GVAF; RTWF; RTHF; RTAC; CVHM; RTAG; CGAF; RTXG; GVWF; HDWA; CMAF; IPAK; CXAF; ACSA; RTSF; HSWA; ACRA; RTEG; ACXA; CMAF; ACRB Large; ACRB Small

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Object Identifier	Object Name	Description	Property Values
10100	Chiller Mode Command BAS	BAS Chiller Mode Command	Cool; Heat; Ice Making; Free Cooling



Object Naming Conventions

The communicated points for the Symbio™ controllers are generally named according to their function. While many of the points are read-only, others include both read and write capability. The established naming convention helps to identify the capabilities of each point. For most points, the suffix identifies the capability according to the following definition. While there are some exceptions, the majority of the points have been defined according to these guidelines.

Suffix	Description
Status	Points with the Status suffix are defined as read-only. The status point reports the value being used by the controller.
Local	Points with the Local suffix are defined as read-only. The local point reports values associated with controller sensors, both wired and wireless. The local value may or may not be actively used by the controller, depending on the presence or absence of a communicated value (BAS). When both a local and communicated value exist, the communicated value is used.
Active	Points with the Active suffix are defined as read-only. Points designated as active are normally the result of the arbitration between a communicated value(BAS) and at least one value local to the equipment, such as a sensor or default setpoint. The active point reports the value being input to the controller.
Setpoint	Points with the Setpoint suffix are defined as either read-only or read/write. For BACnet®, the binary input, analog input and multi-state input points are all read-only. These setpoints report the value currently in use by the controller. The analog value, binary value and multi-state value points are all read/write. These points are provided for use by the building automation system (BAS). When used, these points are written internally to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquish default value/state. Refer to the Appendix for additional information.
Input	Points with the Input suffix are defined as read-only. These points normally reflect the status of a sensor input, either hardwired or communicating wirelessly (Air-Fi®). However, the input point reflects the arbitrated result of the controller sensor input and a communicated value, if present. When both a controller sensor and communicated value exist, the controller will use and report the communicated value.
Arbitrator	Points with the “Arbitrator” suffix are to be used as read-only. The arbitrator prioritizes inputs from communicating points, hardwired points and stored defaults points. The priority array of the arbitration point displays each of the values provided, including the active status, indicating which of the input sources is being used. Refer to the Appendix for additional information.
BAS	Points with the BAS suffix are defined as read/write. These points are provided for use by the building automation system (BAS). When used, these points are written to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquished default value/state. Refer to the Appendix for additional information.
Command	Points with the Command suffix are defined as read/write. These points are written to change the default behavior of the controller. Once written, these point values may be persisted.
Request	Points with the Request suffix are defined as read/write. These points are written to request a change the operating behavior of the controller.

Object Data Points and Diagnostic Data Points

The following tables are sorted as follows:

- Tables are listed by input/output type and sorted by object identifier. These tables provide the user with the unit’s type for each object type.
- Tables are sorted by object name and provide a complete list of object names, types, values/ranges, and descriptions.

Note: Not all points are available to the user. The available data points are defined during self-configuration and are dependent on the type of equipment.

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Register Address	Object Name	Description	Register Type	Register Value
40010	Chilled Water Setpoint	BAS Chilled Water Setpoint	TEMPERATURE	
40012	Demand Limit Setpoint	BAS Demand Limit Setpoint	PERCENTAGE	
40014	Evaporator Water Pump Flow Rate Setpt BAS	BAS Evap Water Flow Rate Setpt	FLOW_FLUIDIC	
40016	Evaporator Water Pump Speed Setpt BAS	BAS Evap Water Pump Speed Setpt	PERCENTAGE	
43010	Reset Diagnostic	BAS Reset Diagnostic	NA	
43011	Noise Reduction Request BAS	BAS Noise Reduction Request	BINARY	
43012	Chiller Auto Stop Command BAS	BAS Chiller Auto Stop Command	BINARY	
43013	Free Cooling Auto Stop Command BAS	BAS Free Cooling Auto Stop Command	BINARY	
43014	Free Cooling Compressor Lockout	BAS Free Cooling Compressor Lockout	BINARY	
43015	Circuit 1 Lockout BAS	BAS Lockout of Circuit 1	BINARY	
43016	Circuit 2 Lockout BAS	BAS Lockout of Circuit 2	BINARY	
43017	Energy Consumption Reset	Energy Consumption Reset	NA	
42010	Chiller Mode Command BAS	BAS Chiller Mode Command	ENNUM	Cool; Heat; Ice Making; Free Cooling

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Register Address	Object Name	Description	Register Type	Register Value
30010	Active Chilled Water Setpoint	Active Chilled Water Setpoint	TEMPERATURE	
30012	Evaporator Entering Water Temperature	Evaporator Entering Water Temperature	TEMPERATURE	
30014	Evaporator Leaving Water Temperature	Evaporator Leaving Water Temperature	TEMPERATURE	
30016	Calculated Chiller Capacity	Calculated Chiller Capacity	POWER_COOLING	
30018	Active Demand Limit Setpoint	Active Demand Limit Setpoint	PERCENTAGE	
30020	Unit Power Consumption	Unit Power Consumption	POWER_ELECTRICAL	
30024	Outdoor Air Temperature	Outdoor Air Temperature	TEMPERATURE	
30026	Evaporator Refrigerant Gauge Pressure Circuit 1	Evaporator Refrigerant Gauge Pressure Ckt1	PRESSURE_FLUIDIC	
30028	Condenser Refrigerant Gauge Pressure Circuit 1	Condenser Refrigerant Gauge Pressure Ckt1	PRESSURE_FLUIDIC	
30030	Differential Refrigerant Pressure Circuit 1	Differential Refrigerant Pressure Ckt1	PRESSURE_FLUIDIC	
30032	Evaporator Saturated Refrigerant Temperature Circuit 1	Evaporator Saturated Rfgt Temp Ckt1	TEMPERATURE	
30034	Condenser Saturated Refrigerant Temperature Circuit 1	Condenser Saturated Rfgt Temp Ckt1	TEMPERATURE	
30036	Evaporator Refrigerant Gauge Pressure Circuit 2	Evaporator Refrigerant Gauge Pressure Ckt2	PRESSURE_FLUIDIC	
30038	Condenser Refrigerant Gauge Pressure Circuit 2	Condenser Refrigerant Gauge Pressure Ckt2	PRESSURE_FLUIDIC	
30040	Differential Refrigerant Pressure Circuit 2	Differential Refrigerant Pressure Ckt2	PRESSURE_FLUIDIC	
30042	Evaporator Saturated Refrigerant Temperature Circuit 2	Evaporator Saturated Rfgt Temp Ckt2	TEMPERATURE	
30044	Condenser Saturated Refrigerant Temperature Circuit 2	Condenser Saturated Rfgt Temp Ckt2	TEMPERATURE	
30046	Refrigerant Discharge Temperature - Compressor 1A	Discharge Temperature Cprsr1A	TEMPERATURE	
30048	Oil Gauge Pressure - Compressor 1A	Oil Gauge Pressure - Compressor 1A	PRESSURE_FLUIDIC	
30050	Refrigerant Discharge Temperature - Compressor 2A	Discharge Temperature Cprsr2A	TEMPERATURE	
30052	Oil Gauge Pressure - Compressor 2A	Oil Gauge Pressure Cprsr2A	PRESSURE_FLUIDIC	
30054	Air Flow Percentage Circuit 1	Air Flow Ckt1	PERCENTAGE	

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Register Address	Object Name	Description	Register Type	Register Value
30056	Air Flow Percentage Circuit 2	Air Flow Ckt2	PERCENTAGE	
30058	Starts - Compressor 1A	Starts Cprsr1A	NONE	
30060	Run Time - Compressor 1A	Running Time Cprsr1A	NONE	
30062	Compressor 1A Speed Status	Percent Speed Cprsr1A	PERCENTAGE	
30064	Motor Winding Temperature 1 Circuit 1	Winding Temp #1 Motor 1A	TEMPERATURE	
30066	Motor Winding Temperature 2 Circuit 1	Winding Temp #2 Motor 1A	TEMPERATURE	
30068	Drive Motor Current U RLA Compressor 1A	Motor Current U % RLA AFD 1A	PERCENTAGE	
30070	Drive Motor Current V RLA Compressor 1A	Motor Current V % RLA AFD 1A	PERCENTAGE	
30072	Drive Motor Current W RLA Compressor 1A	Motor Current W % RLA AFD 1A	PERCENTAGE	
30074	Drive Motor Average Current RLA Compressor 1A	Average Motor Current % RLA AFD 1A	PERCENTAGE	
30076	Drive Motor Current U Compressor 1A	Motor Current U AFD 1A	CURRENT	
30078	Drive Motor Current V Compressor 1A	Motor Current V AFD 1A	CURRENT	
30080	Drive Motor Current W Compressor 1A	Motor Current W AFD 1A	CURRENT	
30082	Drive Motor Voltage UV Circuit 1	Motor Voltage UV AFD 1A	VOLTAGE	
30084	Drive Motor Voltage VW Circuit 1	Motor Voltage VW AFD 1A	VOLTAGE	
30086	Drive Motor Voltage WU Circuit 1	Motor Voltage WU AFD 1A	VOLTAGE	
30088	Drive Motor Average Voltage Circuit 1	Average Motor Voltage AFD 1A	VOLTAGE	
30090	Drive DC Bus Voltage Circuit 1	DC Bus Voltage AFD 1A	VOLTAGE	
30092	Drive Output Power Circuit 1	Output Power AFD 1A	POWER_ELECTRICAL	
30094	Drive Input Power Circuit 1	Input Power AFD 1A	POWER_ELECTRICAL	
30096	Drive Line Average Voltage Circuit 1	Average Input Voltage AFD 1A	VOLTAGE	
30098	Drive Average Line Current Circuit 1	Average Input Current AFD 1A	CURRENT	
30100	Drive Line Frequency Circuit 1	Estimated Input Frequency AFD 1A	NONE	
30102	AFD Frequency Circuit 1	Stator Frequency AFD 1A	NONE	
30104	AFD Transistor Temperature Circuit 1	Transistor Temperature AFD 1A	TEMPERATURE	
30106	Drive Inverter Base Temperature Circuit 1	Inverter Base Temperature AFD 1A	TEMPERATURE	

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Register Address	Object Name	Description	Register Type	Register Value
30108	Drive Rectifier Base Temperature Circuit 1	Rectifier Base Temperature AFD 1A	TEMPERATURE	
30110	Starts - Compressor 2A	Starts Cprsr2A	NONE	
30112	Run Time - Compressor 2A	Running Time Cprsr2A	NONE	
30114	Compressor 2A Speed Status	Percent Speed Cprsr2A	PERCENTAGE	
30116	Motor Winding Temperature 1 Circuit 2	Winding Temp #1 Motor 2A	TEMPERATURE	
30118	Motor Winding Temperature 2 Circuit 2	Winding Temp #2 Motor 2A	TEMPERATURE	
30120	Drive Motor Current U RLA Compressor 2A	Motor Current U % RLA AFD 2A	PERCENTAGE	
30122	Drive Motor Current V RLA Compressor 2A	Motor Current V % RLA AFD 2A	PERCENTAGE	
30124	Drive Motor Current W RLA Compressor 2A	Motor Current W % RLA AFD 2A	PERCENTAGE	
30126	Drive Motor Average Current RLA Compressor 2A	Average Motor Current % RLA AFD 2A	PERCENTAGE	
30128	Drive Motor Current U Compressor 2A	Motor Current U AFD 2A	CURRENT	
30130	Drive Motor Current V Compressor 2A	Motor Current V AFD 2A	CURRENT	
30132	Drive Motor Current W Compressor 2A	Motor Current W AFD 2A	CURRENT	
30134	Drive Motor Voltage UV Circuit 2	Motor Voltage UV AFD 2A	VOLTAGE	
30136	Drive Motor Voltage VW Circuit 2	Motor Voltage VW AFD 2A	VOLTAGE	
30138	Drive Motor Voltage WU Circuit 2	Motor Voltage WU AFD 2A	VOLTAGE	
30140	Drive Motor Average Voltage Circuit 2	Average Motor Voltage AFD 2A	VOLTAGE	
30142	Drive DC Bus Voltage Circuit 2	DC Bus Voltage AFD 2A	VOLTAGE	
30144	Drive Output Power Circuit 2	Output Power AFD 2A	POWER_ELECTRICAL	
30146	Drive Input Power Circuit 2	Input Power AFD 2A	POWER_ELECTRICAL	
30148	Drive Line Average Voltage Circuit 2	Average Input Voltage AFD 2A	VOLTAGE	
30150	Drive Average Line Current Circuit 2	Average Input Current AFD 2A	CURRENT	
30152	Drive Line Frequency Circuit 2	Estimated Input Frequency AFD 2A	NONE	
30154	AFD Frequency Circuit 2	Stator Frequency AFD 2A	NONE	
30156	AFD Transistor Temperature Circuit 2	Transistor Temperature AFD 2A	TEMPERATURE	
30158	Drive Inverter Base Temperature Circuit 2	Inverter Base Temperature AFD 2A	TEMPERATURE	

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Register Address	Object Name	Description	Register Type	Register Value
30160	Drive Rectifier Base Temperature Circuit 2	Rectifier Base Temperature AFD 2A	TEMPERATURE	
30162	Number Of Circuits	Number Of Circuits	NONE	
30164	Number Of Compressors Circuit 1	Number Of Compressors, Circuit 1	NONE	
30166	Number Of Compressors Circuit 2	Number Of Compressors, Circuit 2	NONE	
30168	Free Cooling Capacity Status	Free Cooling Capacity	PERCENTAGE	
30170	Free Cooling Entering Water Temperature	Free Cooling Entering Water Temperature	TEMPERATURE	
30172	Energy Consumption Lifetime	Energy Consumption Lifetime	ENERGY_ELECTRICAL	
30174	Energy Consumption	Energy Consumption	ENERGY_ELECTRICAL	
30176	Unit Source ID	Last Logged Diagnostic Spec BAS	NONE	
30178	Chiller Design Capacity	Chiller Design Capacity	POWER_COOLING	
30180	Active Cool/Heat Setpoint Temperature	Active Chilled Water Setpoint	TEMPERATURE	
30182	Actual Running Capacity	Chiller Power	PERCENTAGE	
30184	Evaporator Water Flow Rate	Approximate Evaporator Water Flow	FLOW_FLUIDIC	
30186	Evaporator Differential Water Pressure	Evaporator Differential Water Pressure	PRESSURE_FLUIDIC	
30188	Entering Evaporator Water Gauge Pressure	Evaporator Entering Water Gauge Pressure	PRESSURE_FLUIDIC	
30190	Leaving Evaporator Water Gauge Pressure	Evaporator Leaving Water Gauge Pressure	PRESSURE_FLUIDIC	
30192	Evaporator Water Pump Speed Command	Evaporator Water Pump Speed Command	PERCENTAGE	
30194	Evaporator Water Pump Speed Feedback	Evaporator Water Pump Speed Feedback	PERCENTAGE	
30196	Evaporator Water Pump Speed Setpoint Active	Active Evap Water Pump Speed Setpt	PERCENTAGE	
30198	Evaporator Water Pump Flow Rate Setpt Active	Active Evap Water Flow Rate Setpt	FLOW_FLUIDIC	
30200	Discharge Superheat Compressor 1A	Discharge Superheat Cprsr 1A	TEMPERATURE_DELTA	
30202	Discharge Superheat Compressor 2A	Discharge Superheat Cprsr 2A	TEMPERATURE_DELTA	
30204	Current L1	Meter Line Current L1	CURRENT	

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Register Address	Object Name	Description	Register Type	Register Value
30206	Current L2	Meter Line Current L2	CURRENT	
30208	Current L3	Meter Line Current L3	CURRENT	
30210	Average Current	Meter Average Line Current	CURRENT	
30212	Voltage L1-L2	Meter Line Voltage L1-L2	VOLTAGE	
30214	Voltage L2-L3	Meter Line Voltage L2-L3	VOLTAGE	
30216	Voltage L1-L3	Meter Line Voltage L1-L3	VOLTAGE	
30218	Average Voltage L-L	Meter Average Line Voltage	VOLTAGE	
30220	Line Frequency	Unit Line Frequency	NONE	
30222	Power Factor	Unit Power Factor	NONE	
30224	Unit Power Demand	Chiller Power Demand	POWER_ELECTRICAL	
30226	Free Cooling Entering Glycol Temperature	Free Cooling Entering Glycol Temperature	TEMPERATURE	
30228	Free Cooling Leaving Glycol Temperature	Free Cooling Leaving Glycol Temperature	TEMPERATURE	
30230	Free Cooling Glycol Pressure	Free Cooling Glycol Pressure	PRESSURE_FLUIDIC	
30232	Free Cooling Valve Position Status	Free Cooling Valve Percent Open	PERCENTAGE	
30234	Free Cooling Bypass Valve Position Status	Free Cooling Bypass Valve Percent Open	PERCENTAGE	
30236	Free Cooling Pump Override Time Remaining	Free Cooling Pump Override Time Remaining	NONE	
30238	Free Cooling Target Offset	Free Cooling Target Offset	TEMPERATURE_DELTA	
30240	Free Cooling Dedicated Fans Airflow	Free Cooling Dedicated Fan Air Flow	PERCENTAGE	
30242	Free Cooling Waterside Bypass Valve Status	Free Cooling Waterside Byp Vlv Pct Open	PERCENTAGE	
30244	Evaporator Refrigerant Pressure Circuit 1	Evaporator Refrigerant Absolute Pressure Ckt1	PRESSURE_FLUIDIC	
30246	Condenser Refrigerant Pressure Circuit 1	Condenser Refrigerant Absolute Pressure Ckt1	PRESSURE_FLUIDIC	
30248	Evaporator Refrigerant Pressure Circuit 2	Evaporator Refrigerant Absolute Pressure Ckt2	PRESSURE_FLUIDIC	
30250	Condenser Refrigerant Pressure Circuit 2	Condenser Refrigerant Absolute Pressure Ckt2	PRESSURE_FLUIDIC	
30252	Oil Pressure - Compressor 1A	Oil Absolute Pressure - Compressor 1A	PRESSURE_FLUIDIC	

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Register Address	Object Name	Description	Register Type	Register Value
30254	Oil Pressure - Compressor 2A	Oil Absolute Pressure Cprsr2A	PRESSURE_FLUIDIC	
30256	Entering Evaporator Water Pressure	Evaporator Entering Water Absolute Pressure	PRESSURE_FLUIDIC	
30258	Leaving Evaporator Water Pressure	Evaporator Leaving Water Absolute Pressure	PRESSURE_FLUIDIC	
30260	AFD Coolant Supply Temperature Compressor 1A	Drive Cooling Supply Temperature Ckt1	TEMPERATURE	
30262	AFD Coolant Supply Temperature Compressor 2A	Drive Cooling Supply Temperature Ckt2	TEMPERATURE	
30264	Evaporator Approach Temperature Circuit 1	Evaporator Approach Temperature Ckt1	TEMPERATURE_DELTA	
30266	Evaporator Approach Temperature Circuit 2	Evaporator Approach Temperature Ckt2	TEMPERATURE_DELTA	
33010	Run Enable	Run Enable	BINARY	
33011	Local Setpoint Control	Local Setpoint Control	BINARY	
33012	Limit Mode Relay Status	Limit Mode Relay Status	BINARY	
33013	Chiller Running State	Chiller Running State	BINARY	
33014	Maximum Capacity	Maximum Capacity Relay	BINARY	
33015	Evaporator Water Pump Command	Evaporator Water Pump Command	BINARY	
33016	Evaporator Water Flow Status	Evaporator Water Flow Status	BINARY	
33017	Manual Override Exists	Manual Override Exists	BINARY	
33018	Emergency Stop	Emergency Stop	BINARY	
33027	Compressor 1A Running Status	Running Status Cprsr1A	BINARY	
33028	Compressor 2A Running Status	Running Status Cprsr2A	BINARY	
33029	Free Cooling Active	Free Cooling Active	BINARY	
33030	External Auto Stop Status	External Auto Stop	BINARY	
33031	Front Panel Auto Stop Status	Front Panel Auto/Stop	BINARY	
33032	Noise Reduction Request Active	Noise Reduction Request Active	BINARY	
33033	Evaporator Water Pump 1 Inverter Running Status	Evap Water Pump 1 Inverter Running Status	BINARY	
33034	Evaporator Water Pump 1 Fault Status	Evaporator Water Pump 1 Fault Status	BINARY	
33035	Circuit 1 Cooling Available	Circuit is available to start	BINARY	
33036	Circuit 2 Cooling Available	Circuit is available to start	BINARY	

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Register Address	Object Name	Description	Register Type	Register Value
33037	Oil Sensor Circuit 1	Oil Loss Level Sensor Ckt1	BINARY	
33038	Oil Sensor Circuit 2	Oil Loss Level Sensor Ckt2	BINARY	
33039	Free Cooling Pump Command Status	Free Cooling Pump Command	BINARY	
33040	Free Cooling Front Panel Command Status	Front Panel Free Cooling Command	BINARY	
33041	Free Cooling Glycol Flow Status	Free Cooling Glycol Flow Status	BINARY	
32010	Running Mode	Chiller Running Status	ENUM	Chiller Off; Chiller In Start Mode; Chiller In Run Mode; Chiller In Pre-Shutdown Mode; Chiller In Service Mode
32011	Operating Mode	Operating Mode	ENUM	Cool; Heat; Ice Making; Free Cooling
32012	Chiller Setpoint Source	Setpoint Source	ENUM	BAS; External; Front Panel
32013	Refrigerant Type	Refrigerant Type	ENUM	R-11; R-12; R-22; R-123; R-134a; R-407C; R-410A; R-113; R-114; R-500; R-502; R-404A; R-513A; R-1233zd(E); R-514A; R-1234ze(E)
32014	Cooling Type	Cooling Type	ENUM	Water Cooled; Air Cooled
32015	Manufacture Location	Manufacture Location	ENUM	Field Applied; La Crosse; Pueblo; Charnes; Rushville; Macon; Waco; Lexington; Forsyth; Clarksville; Ft. Smith; Penang; Colchester; Curitiba; Taicang; Taiwan; Epinal; Golbey

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32016	Model Information [GEN2]	Model Information	ENNUM	CVHF; CVGF; CVHS; RTAE; RTAF; RTHA; RTHB; RTHC; RTHD; RTWE; CTVD; CVR; CVHH; CDHH; VMAX; GVAF; RTWF; RTHF; RTAC; CVHM; RTAG; CGAF; RTXG; GVWF; HDWA; CMAC; IPAK; CXAF; ACSA; RTSF; HSWA; ACRA; RTEG; ACXA; CMAF; ACRB Large; ACRB Small