



## 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.*



Object Identifier	Object Name	Description	Units	Configuration Dependency
AI-10100	Active Chilled Water Setpoint	Indicates the value of the active Chilled Water Setpoint actively being used by the chiller	Temperature	Standard
AI-10101	Active Demand Limit Setpoint	Indicates the demand limit setpoint value actively being used by the chiller when ice building is not installed	Percentage	Ice Building not Installed
AI-10103	Evaporator Entering Water Temperature	Indicates the current temperature of the water entering the evaporator	Temperature	Standard
AI-10104	Evaporator Leaving Water Temperature	Indicates the current temperature of the water leaving the evaporator	Temperature	Standard
AI-10106	Unit Power Consumption	Indicates the measurement of the power being consumed by the Chiller	Power, Electrical	Power Monitor
AI-10107	Outdoor Air Temperature	Indicates the current temperature of the outdoor air	Temperature	Standard
AI-10110	Evaporator Refrigerant Pressure Circuit 1	Indicates the current pressure of the refrigerant in the evaporator on circuit 1	Pressure, Fluidic	Standard
AI-10111	Condenser Refrigerant Pressure Circuit 1	Indicates the current pressure of the refrigerant in the condenser on circuit 1	Pressure, Fluidic	Standard
AI-10112	Differential Refrigerant Pressure Circuit 1	Indicates the pressure difference between the suction and discharge lines on circuit 1	Pressure, Fluidic	Standard
AI-10113	Evaporator Saturated Refrigerant Temperature Circuit 1	Indicates the saturated refrigerant temperature of the evaporator on circuit 1	Temperature	Standard
AI-10114	Condenser Saturated Refrigerant Temperature Circuit 1	Indicates the saturated refrigerant temperature of the condenser on circuit 1	Temperature	Standard
AI-10115	Evaporator Refrigerant Pressure Circuit 2	Indicates the current pressure of the refrigerant in the evaporator on circuit 2	Pressure, Fluidic	Standard
AI-10116	Condenser Refrigerant Pressure Circuit 2	Indicates the current pressure of the refrigerant in the condenser on circuit 2	Pressure, Fluidic	Standard
AI-10117	Differential Refrigerant Pressure Circuit 2	Indicates the pressure difference between the suction and discharge lines on circuit 2	Pressure, Fluidic	Standard
AI-10118	Evaporator Saturated Refrigerant Temperature Circuit 2	Indicates the saturated refrigerant temperature of the evaporator on circuit 2	Temperature	Standard
AI-10119	Condenser Saturated Refrigerant Temperature Circuit 2	Indicates the saturated refrigerant temperature of the condenser on circuit 2	Temperature	Standard
AI-10120	Refrigerant Discharge Temperature Compressor 1A	Indicates the current temperature of the refrigerant being discharged from Compressor 1A	Temperature	Standard
AI-10121	High Side Oil Pressure - Compressor 1A	Indicates the pressure of the oil on the high pressure side of Compressor 1A	Pressure, Fluidic	Standard
AI-10122	Refrigerant Discharge Temperature Compressor 2A	Indicates the current temperature of the refrigerant being discharged from Compressor 2A	Temperature	Standard
AI-10123	High Side Oil Pressure - Compressor 2A	Indicates the pressure of the oil on the high pressure side of Compressor 2A	Pressure, Fluidic	Standard
AI-10124	Air Flow Percentage Circuit 1	Indicates the approximate air flow percentage of Circuit 1	Percentage	Standard
AI-10125	Air Flow Percentage Circuit 2	Indicates the approximate air flow percentage of Circuit 2	Percentage	Standard
AI-10126	Drive Motor Average Voltage Circuit 1	Indicates the average voltage line to line at AFD for Compressor 1A	Voltage	PF755 TR200



Object Identifier	Object Name	Description	Units	Configuration Dependency
AI-10127	Drive Motor Current U Circuit 1	Indicates the measurement of Line 1 current at AFD for Compressor 1A in terms of Amps	Current	PF755 TR200
AI-10128	Drive Motor Current V Circuit 1	Indicates the measurement of Line 2 current at AFD for Compressor 1A in terms of Amps	Current	PF755 TR200
AI-10129	Drive Motor Current W Circuit 1	Indicates the measurement of Line 3 current at AFD for Compressor 1A in terms of Amps	Current	PF755 TR200
AI-10130	Drive Motor Current U RLA Circuit 1	Indicates the measurement of Line 1 current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
AI-10131	Drive Motor Current V RLA Circuit 1	Indicates the measurement of Line 2 current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
AI-10132	Drive Motor Current W RLA Circuit 1	Indicates the measurement of Line 3 current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
AI-10133	Drive Motor Average Current RLA Circuit 1	Indicates the average current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
AI-10134	Drive DC Bus Voltage Circuit 1	Indicates the voltage of the DC Bus from the AFD for Compressor 1A	Voltage	PF755 TR200
AI-10135	Drive Output Power Circuit 1	Indicates the power output from the AFD for Compressor 1A	Power, Electrical	PF755 TR200
AI-10136	AFD Transistor Temperature Circuit 1	Indicates the temperature of the transistor for the AFD for Compressor 1A	Temperature	PF755 TR200
AI-10137	Motor Winding Temperature 1 Circuit 1	Indicates the first temperature sensor of the windings on motor 1A	Temperature	Standard
AI-10138	Motor Winding Temperature 2 Circuit 1	Indicates the second temperature sensor of the windings on motor 1A	Temperature	Standard
AI-10139	Drive Motor Average Voltage Circuit 2	Indicates the average voltage line to line at AFD for Compressor 2A	Voltage	PF755 TR200
AI-10140	Drive Motor Current U Circuit 2	Indicates the measurement of Line 1 current at AFD for Compressor 2A in terms of Amps	Current	PF755 TR200
AI-10141	Drive Motor Current V Circuit 2	Indicates the measurement of V line current at AFD for Compressor 2A in terms of Amps	Current	PF755 TR200
AI-10142	Drive Motor Current W Circuit 2	Indicates the measurement of W line current at AFD for Compressor 2A in terms of Amps	Current	PF755 TR200
AI-10143	Drive Motor Current U RLA Circuit 2	Indicates the measurement of Line 1 current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
AI-10144	Drive Motor Current V RLA Circuit 2	Indicates the measurement of Line 2 current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
AI-10145	Drive Motor Current W RLA Circuit 2	Indicates the measurement of Line 3 current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
AI-10146	Drive Motor Average Current RLA Circuit 2	Indicates the average current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
AI-10147	Drive DC Bus Voltage Circuit 2	Indicates the voltage of the DC Bus from the AFD for Compressor 2A	Voltage	PF755 TR200
AI-10148	Drive Output Power Circuit 2	Indicates the power output from the AFD for Compressor 2A	Power, Electrical	PF755 TR200



Object Identifier	Object Name	Description	Units	Configuration Dependency
AI-10149	AFD Transistor Temperature Circuit 2	Indicates the temperature of the transistor for the AFD for Compressor 2A	Temperature	PF755
AI-10150	Motor Winding Temperature 1 Circuit 2	Indicates the first temperature sensor of the windings on motor 2A	Temperature	Standard
AI-10151	Motor Winding Temperature 2 Circuit 2	Indicates the second temperature sensor of the windings on motor 2A	Temperature	Standard
AI-10152	Sub Cooled Liquid Temperature Circuit 1	Indicates the sub cooled liquid temperature of circuit 1	Temperature	Standard
AI-10153	Sub Cooled Liquid Temperature Circuit 2	Indicates the sub cooled liquid temperature of circuit 2	Temperature	Standard
AI-10154	Evaporator Differential Water Pressure	Indicates the differential water pressure of the evaporator	Temperature	Variable Primary Flow
AI-10155	System Chilled Water Differential Pressure	Indicates the differential water pressure of the chilled water system	Pressure, Fluidic	Variable Primary Flow
AI-10158	Phase AB Voltage - Compressor 1B	Indicates the measurement of voltage in Phase AB for Compressor 1B	Voltage	Line Voltage Sensing
AI-10159	Line 1 Current - Compressor 1B	Indicates the measurement of Line 1 current for Compressor 1B in terms of Amps	Current	Standard
AI-10160	Line 2 Current - Compressor 1B	Indicates the measurement of Line 2 current for Compressor 1B in terms of Amps	Current	Standard
AI-10161	Line 3 Current - Compressor 1B	Indicates the measurement of Line 3 current for Compressor 1B in terms of Amps	Current	Standard
AI-10162	Line 1 Current RLA - Compressor 1B	Indicates the measurement of Line 1 current for Compressor 1B in terms of % RLA	Percentage	Standard
AI-10163	Line 2 Current RLA - Compressor 1B	Indicates the measurement of Line 2 current for Compressor 1B in terms of % RLA	Percentage	Standard
AI-10164	Line 3 Current RLA - Compressor 1B	Indicates the measurement of Line 3 current for Compressor 1B in terms of % RLA	Percentage	Standard
AI-10165	Phase AB Voltage - Compressor 2B	Indicates the measurement of voltage in Phase AB for Compressor 2B	Voltage	Line Voltage Sensing
AI-10166	Line 1 Current - Compressor 2B	Indicates the measurement of Line 1 current for Compressor 2B in terms of Amps	Current	Standard
AI-10167	Line 2 Current - Compressor 2B	Indicates the measurement of Line 2 current for Compressor 2B in terms of Amps	Current	Standard
AI-10168	Line 3 Current - Compressor 2B	Indicates the measurement of Line 3 current for Compressor 2B in terms of Amps	Current	Standard
AI-10169	Line 1 Current RLA - Compressor 2B	Indicates the measurement of Line 1 current for Compressor 2B in terms of % RLA	Percentage	Standard
AI-10170	Line 2 Current RLA - Compressor 2B	Indicates the measurement of Line 2 current for Compressor 2B in terms of % RLA	Percentage	Standard
AI-10171	Line 3 Current RLA - Compressor 2B	Indicates the measurement of Line 3 current for Compressor 2B in terms of % RLA	Percentage	Standard
AI-10173	Refrigerant Discharge Temperature Compressor 1B	Indicates the current temperature of the refrigerant being discharged from Compressor 1B	Temperature	Standard
AI-10174	High Side Oil Pressure - Compressor 1B	Indicates the pressure of the oil on the high pressure side of Compressor 1B	Pressure, Fluidic	Standard
AI-10175	Refrigerant Discharge Temperature Compressor 2B	Indicates the current temperature of the refrigerant being discharged from Compressor 2B	Temperature	Standard



Object Identifier	Object Name	Description	Units	Configuration Dependency
AI-10176	High Side Oil Pressure - Compressor 2B	Indicates the pressure of the oil on the high pressure side of Compressor 2B	Pressure, Fluidic	Standard
AI-10177	Number of Circuits	Indicates the number of refrigeration circuits in the chiller	No Units	Standard
AI-10178	Number of Compressors Circuit 1	Indicates the number of compressors on circuit 1 of the chiller	No Units	Standard
AI-10179	Number of Compressors Circuit 2	Indicates the number of compressors on circuit 2 of the chiller	No Units	Standard
AI-10180	Actual Running Capacity	Indicates the measurement of the power being consumed by the Chiller	Percentage	Standard
AI-10181	Free Cooling Capacity Status	Indicates the % capacity of the free cooling being used	Percentage	Free Cooling
AI-10182	Free Cooling Entering Water Temperature Active	Indicates the entering water temperature of the free cooling circuit	Temperature	Free Cooling
AI-10185	Evaporator Differential Water Pressure Setpoint Status	Indicates the setpoint status of the evaporator differential water pressure	Pressure, Fluidic	Variable Primary Flow
AI-10186	Energy Consumption Lifetime	Indicates the total energy consumption of the chiller (for the lifetime of the chiller)	Energy, Electrical	Power Monitor
AI-10187	Energy Consumption	Indicates the total energy consumption of the chiller (since last accumulation reset)	Energy, Electrical	Power Monitor
AI-10188	Starts - Compressor 1A	Indicates the number of starts of Compressor 1A	No Units	Standard
AI-10189	Run Time - Compressor 1A	Indicates the run time of Compressor 1A in seconds	No Units	Standard
AI-10190	Starts - Compressor 2A	Indicates the number of starts of Compressor 2A	No Units	Standard
AI-10191	Run Time - Compressor 2A	Indicates the run time of Compressor 2A in seconds	No Units	Standard
AI-10192	Starts - Compressor 1B	Indicates the number of starts of Compressor 1B	No Units	Standard
AI-10193	Run Time - Compressor 1B	Indicates the run time of Compressor 1B in seconds	No Units	Standard
AI-10194	Starts - Compressor 2B	Indicates the number of starts of Compressor 2B	No Units	Standard
AI-10195	Run Time - Compressor 2B	Indicates the run time of Compressor 2B in seconds	No Units	Standard
AI-10196	Chiller Design Capacity	Indicates the design capacity of chiller	Power, Cooling	Standard
AI-10198	Chilled Water Setpoint Status	Indicates the chilled water setpoint temperature	Temperature	Standard
AI-10199	Demand Limit Setpoint Status	Indicates the % capacity of the demand limit being used	Percentage	Ice Building
AI-10200	Unit Source ID	Indicates the last diagnostic of the chiller	No Units	Standard
AI-10201	Drive Input Voltage Calculated 1A	Indicates the input voltage at the AFD for Compressor 1A	Voltage	PF755 TR200
AI-10202	Drive Input Voltage Calculated 2A	Indicates the input voltage at the AFD for Compressor 2A	Voltage	PF755 TR200
AI-10203	Active Cool/Heat Setpoint Temperature	Indicates the value of the active Chilled Water Setpoint actively being used by the chiller	Temperature	Standard
AI-10204	Phase BC Voltage - Compressor 1B	Indicates the measurement of voltage in Phase BC for Compressor 1B	Voltage	Line Voltage Sensing
AI-10205	Phase CA Voltage - Compressor 1B	Indicates the measurement of voltage in Phase CA for Compressor 1B	Voltage	Line Voltage Sensing
AI-10206	Phase BC Voltage - Compressor 2B	Indicates the measurement of voltage in Phase BC for Compressor 2B	Voltage	Line Voltage Sensing



Object Identifier	Object Name	Description	Units	Configuration Dependency
AI-10207	Phase CA Voltage - Compressor 2B	Indicates the measurement of voltage in Phase CA for Compressor 2B	Voltage	Line Voltage Sensing
AI-10208	Average Line Current Circuit 1	Indicates the average current, reported in Circuit 1	Current	Two Energy Meters Installed
AI-10209	Average Line Current Circuit 2	Indicates the average current, reported in Circuit 2	Current	Two Energy Meters Installed
AI-10210	Average Line Voltage Circuit 1	Indicates the average voltage, line-to-line reported in Circuit 1	Voltage	Two Energy Meters Installed
AI-10211	Average Line Voltage Circuit 2	Indicates the average voltage, line-to-line reported in Circuit 2	Voltage	Two Energy Meters Installed
AI-10212	Line Current L1 Circuit 1	Indicates the current for line/leg 1 of Circuit 1	Current	Two Energy Meters Installed
AI-10213	Line Current L2 Circuit 1	Indicates the current for line/leg 2 of Circuit 1	Current	Two Energy Meters Installed
AI-10214	Line Current L3 Circuit 1	Indicates the current for line/leg 3 of Circuit 1	Current	Two Energy Meters Installed
AI-10215	Line Current L1 Circuit 2	Indicates the current for line/leg 1 of Circuit 2	Current	Two Energy Meters Installed
AI-10216	Line Current L2 Circuit 2	Indicates the current for line/leg 2 of Circuit 2	Current	Two Energy Meters Installed
AI-10217	Line Current L3 Circuit 2	Indicates the current for line/leg 3 of Circuit 2	Current	Two Energy Meters Installed
AI-10218	Voltage L1-L2 Circuit 1	Indicates the voltage between line/leg L1 and L2 of Circuit 1	Voltage	Two Energy Meters Installed
AI-10219	Voltage L2-L3 Circuit 1	Indicates the voltage between line/leg L2 and L3 of Circuit 1	Voltage	Two Energy Meters Installed
AI-10220	Voltage L1-L3 Circuit 1	Indicates the voltage between line/leg L1 and L3 of Circuit 1	Voltage	Two Energy Meters Installed
AI-10221	Voltage L1-L2 Circuit 2	Indicates the voltage between line/leg L1 and L2 of Circuit 2	Voltage	Two Energy Meters Installed
AI-10222	Voltage L2-L1 Circuit 2	Indicates the voltage between line/leg L2 and L3 of Circuit 2	Voltage	Two Energy Meters Installed
AI-10223	Voltage L1-L3 Circuit 2	Indicates the voltage between line/leg L1 and L3 of Circuit 2	Voltage	Two Energy Meters Installed
AI-10224	Total Real Power	Indicates the total real power reported	Power, Electrical	Power Monitor
AI-10225	Line Frequency Circuit 1	Indicates the estimated input frequency for Circuit 1	No Units	Two Energy Meters Installed
AI-10226	Line Frequency Circuit 2	Indicates the estimated input frequency for Circuit 2	No Units	Two Energy Meters Installed
AI-10227	Power Factor Circuit 1	Indicates the reported power factor for Circuit 1	No Units	Two Energy Meters Installed
AI-10228	Power Factor Circuit 2	Indicates the reported power factor for Circuit 2	No Units	Two Energy Meters Installed
AI-10229	Power Demand Circuit 1	Indicates the reported power demand for Circuit 1	Power, Electrical	Two Energy Meters Installed
AI-10230	Power Demand Circuit 2	Indicates the reported power demand for Circuit 2	Power, Electrical	Two Energy Meters Installed
AI-10231	Evaporator Approach Temperature Circuit 1	Indicates the evaporator approach temperature for circuit 1	Temperature, Delta	Standard
AI-10232	Evaporator Approach Temperature Circuit 2	Indicates the evaporator approach temperature for circuit 2	Temperature, Delta	Standard
AI-10233	Discharge Superheat Compressor 1A	Indicates the discharge superheat for compressor 1A	Temperature, Delta	Standard
AI-10234	Discharge Superheat Compressor 1B	Indicates the discharge superheat for compressor 1B	Temperature, Delta	Standard
AI-10235	Discharge Superheat Compressor 2A	Indicates the discharge superheat for compressor 2A	Temperature, Delta	Standard



Object Identifier	Object Name	Description	Units	Configuration Dependency
AI-10236	Discharge Superheat Compressor 2B	Indicates the discharge superheat for compressor 2B	Temperature, Delta	Standard
AI-10237	Evaporator Water Flow Rate	Indicates the approximate evaporator water flow rate	Flow, Fluidic	Evap Water Flow Measurement
AI-10238	Evaporator Differential Water Pressure	Indicates the evaporator differential water pressure	Pressure, Fluidic	Evap Water Flow Measurement Differential Pressure or Dual Pressure Sensors
AI-10239	Entering Evaporator Water Pressure	Indicates the evaporator entering water pressure	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors
AI-10240	Leaving Evaporator Water Pressure	Indicates the evaporator leaving water pressure	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors
AI-10241	Power Factor	Indicates the unit power factor	No Units	One Energy Meter Installed
AI-10242	Current L1	Indicates the current for line/leg 1	Current	One Energy Meter Installed
AI-10243	Current L2	Indicates the current for line/leg 2	Current	One Energy Meter Installed
AI-10244	Current L3	Indicates the current for line/leg 3	Current	One Energy Meter Installed
AI-10245	Average Current	Indicates the average current reported	Current	One Energy Meter Installed
AI-10246	Voltage L1-L2	Indicates the voltage between line/leg L1 and L2	Voltage	One Energy Meter Installed
AI-10247	Voltage L2-L3	Indicates the voltage between line/leg L2 and L3	Voltage	One Energy Meter Installed
AI-10248	Voltage L1-L3	Indicates the voltage between line/leg L1 and L3	Voltage	One Energy Meter Installed
AI-10249	Average Voltage L-L	Indicates the average voltage, line-to-line	Voltage	One Energy Meter Installed
AI-10250	Line Frequency	Indicates the chiller line frequency	No Units	One Energy Meter Installed
AI-10251	AFD Coolant Supply Temperature Compressor 1A	Indicates the AFD cooling supply temperature for circuit 1	Temperature	PF755
AI-10253	AFD Coolant Supply Temperature Compressor 2A	Indicates the AFD cooling supply temperature for circuit 2	Temperature	PF755
AI-10254	Evaporator Water Pump Speed Command	Indicates the evaporator water pump speed command	Percentage	Evap Pump Control - Variable Speed
AI-10255	Evaporator Water Pump Speed Feedback	Indicates the evaporator water pump speed Feedback	Percentage	Evap Pump Control - Variable Speed
AI-10256	Evaporator Water Pump Speed Setpoint Active	Indicatest the active evaporator water pump speed setpoint	Percentage	Evap Pump Variable Speed Type - Direct Pump Speed Control
AI-10257	Evaporator Water Pump Flow Rate Setpoint Active	Indicatest the active evaporator water pump flow rate setpoint	Flow, Fluidic	Evap Pump Variable Speed Type - Water Flow Control
AI-10258	Free Cooling Dedicated Fans Airflow	Indicates the free cooling dedicated fan air flow	Percentage	Free Cooling Dedicated Fans



# Symbio™ 800 Integration Points List

BACnet®

Ascend™ Model ACR Series C

Date: 11/15/2024

Reference Document: BAS-SVP083\*-EN



Object Identifier	Object Name	Description	Units	Configuration Dependency
AI-10259	Drive Heat Sink Temperature Compressor 1A	Indicates the heatsink temperature for the circuit 1A AFD	Temperature	TR200
AI-10260	Drive Heat Sink Temperature Compressor 2A	Indicates the heatsink temperature for the circuit 2A AFD	Temperature	TR200
AI-10261	Compressor 1A Speed Status	Indicates the percent speed status for compressor 1A	Percentage	PF755 TR200
AI-10262	Compressor 2A Speed Status	Indicates the percent speed status for compressor 2A	Percentage	PF755 TR200
AI-10263	Calculated Chiller Capacity	Indicates the calculated chiller capacity	Power, Cooling	Standard
AI-10264	Free Cooling Target Offset	Indicates the free cooling target offset	Temperature, Delta	Free Cooling
AI-10265	Free Cooling Valve Position Status	Indicates the free cooling valve percent open position	Percentage	Free Cooling
AI-10266	Active Demand Limit Setpoint	Indicates the demand limit setpoint value actively being used by the chiller when ice building is installed	Percentage	Ice Building
AI-10267	Evaporator Refrigerant Absolute Pressure Circuit 1	Indicates the current absolute pressure of the refrigerant in the evaporator on circuit 1	Pressure, Fluidic	Standard
AI-10268	Condenser Refrigerant Absolute Pressure Circuit 1	Indicates the current absolute pressure of the refrigerant in the condenser on circuit 1	Pressure, Fluidic	Standard
AI-10269	Evaporator Refrigerant Absolute Pressure Circuit 2	Indicates the current absolute pressure of the refrigerant in the evaporator on circuit 2	Pressure, Fluidic	Standard
AI-10270	Condenser Refrigerant Absolute Pressure Circuit 2	Indicates the current absolute pressure of the refrigerant in the condenser on circuit 2	Pressure, Fluidic	Standard
AI-10271	High Side Oil Absolute Pressure - Compressor 1A	Indicates the absolute pressure of the oil on the high pressure side of Compressor 1A	Pressure, Fluidic	Standard
AI-10272	High Side Oil Absolute Pressure - Compressor 2A	Indicates the absolute pressure of the oil on the high pressure side of Compressor 2A	Pressure, Fluidic	Standard
AI-10273	High Side Oil Absolute Pressure - Compressor 1B	Indicates the absolute pressure of the oil on the high pressure side of Compressor 1B	Pressure, Fluidic	Standard
AI-10274	High Side Oil Absolute Pressure - Compressor 2B	Indicates the absolute pressure of the oil on the high pressure side of Compressor 2B	Pressure, Fluidic	Standard
AI-10275	Entering Evaporator Water Absolute Pressure	Indicates the absolute pressure of the entering evaporator water	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors
AI-10276	Leaving Evaporator Water Absolute Pressure	Indicates the absolute pressure of the leaving evaporator water	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors

# Symbio™ 800 Integration Points List

BACnet®

Ascend™ Model ACR Series C

Date: 11/15/2024

Reference Document: BAS-SVP083\*-EN



Object Identifier	Object Name	Description	Units	Configuration Dependency
AV-10100	Chilled Water Setpoint	The value is normally provided by the BAS to send the Chilled Water Setpoint. The value is subject to arbitration logic in the controller, in which case it may or may not be used for control purposes	Temperature	Standard
AV-10101	Demand Limit Setpoint	The value is normally provided by the BAS to send the Demand Limit Setpoint. The value is subject to arbitration logic in the controller, in which case it may or may not be used for control purposes	Percentage	Standard
AV-10102	Evaporator Water Pump Flow Rate Setpt BAS	BAS Evap Water Flow Rate Setpt	Flow, Fluidic	Evap Variable Speed Pump Control - Water Flow Control
AV-10103	Evaporator Water Pump Speed Setpt BAS	BAS Evap Water Pump Speed Setpt	Percentage	Evap Variable Speed Pump Control - Direct Pump Speed Control



Object Identifier	Object Name	Description	Units	Configuration Dependency
BI-10100	Run Enable	Indicates that chiller is available to run or is currently running	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10101	Local Setpoint Control	Indicates the which setpoint is used for control purposes, Remote (BAS) or Local	0 = Remote Control 1 = Local Control	Standard
BI-10102	Limit Mode Relay Status	Indicates the status of the chiller limit relay	0 = Off 1 = On	Standard
BI-10103	Chiller Running State	Indicates whether the chiller is on (currently doing either cooling) or is considered off(not currently doing cooling)	0 = Off 1 = On	Standard
BI-10104	Maximum Capacity	Indicates the status of the maximum capacity relay	0 = Off 1 = On	Standard
BI-10106	Manual Override Exists	Indicated a manual override is present	0 = Off 1 = On	Standard
BI-10107	Compressor 1A Status	Indicates running state of Compressor 1A	0 = Off 1 = Running	Standard
BI-10108	Compressor 2A Status	Indicates running state of Compressor 2A	0 = Off 1 = Running	Standard
BI-10109	Emergency Stop	Indicates the status of the emergency stop function of the chiller	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
BI-10110	Evaporator Water Pump Request	Indicates a request from the chiller to turn on the Evaporator Water Pump	0 = Off 1 = On	Standard
BI-10111	Evaporator Water Flow Status	Indicates the flow of water through evaporator	0 = No Flow 1 = Flow	Standard
BI-10112	Compressor 1B Status	Indicates running state of Compressor 1B	0 = Off 1 = Running	Standard
BI-10113	Compressor 2B Status	Indicates running state of Compressor 2B	0 = Off 1 = Running	Standard
BI-10114	Free Cooling Active	Indicated the free cooling mode is active	0 = Inactive 1 = Active	Free Cooling
BI-10116	Diagnostic Present	Indicates whether diagnostic present	0 = Normal 1 = In Alarm	Standard
BI-10117	Diagnostic Shutdown Present	Indicates chiller is shut down due to diagnostics	0 = Normal 1 = In Alarm	Standard
BI-10118	Diagnostic: Manual Reset Required	Indicates when a diagnostic exists that requires manual reset	0 = Normal 1 = In Alarm	Standard
BI-10119	Diagnostic: Local Manual Reset Required	Indicates when a diagnostic exists that requires manual reset [Local only]	0 = Normal 1 = In Alarm	Standard
BI-10120	Diagnostic Present: Information	Indicates whether diagnostic present with Information Category	0 = Normal 1 = In Alarm	Standard
BI-10121	Diagnostic Present: Advisory	Indicates whether diagnostic present with Warning Category	0 = Normal 1 = In Alarm	Standard
BI-10122	Diagnostic Present: Critical	Indicates whether diagnostic present with Critical Category	0 = Normal 1 = In Alarm	Standard
BI-10123	Diagnostic Present: Service Required	Indicates whether diagnostic present with Service Required Category	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Description	Units	Configuration Dependency
BI-10124	External Auto Stop Input Status	Indicates the status of the externally-wired auto/stop input	0 = Stop 1 = Auto	Standard
BI-10125	Front Panel Auto Stop	Indicates the auto/stop status of the Front Panel	0 = Stop 1 = Auto	Standard
BI-10126	Noise Reduction Request Active	Indicates whether Noise Reduction active	0 = Off 1 = On	Low Noise
BI-10127	Circuit 1 Lockout Front Panel	Indicates the lockout state of Circuit 1 Compressor from Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10128	Circuit 2 Lockout Front Panel	Indicates the lockout state of Circuit 2 Compressor from Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10129	Circuit 1 Lockout External	Indicates the lockout state of Circuit 1 Compressor from External	0 = Normal 1 = Locked Out	Standard
BI-10130	Circuit 2 Lockout External	Indicates the lockout state of Circuit 2 Compressor from External	0 = Normal 1 = Locked Out	Standard
BI-10131	Circuit 1 Lockout Active	Indicates the lockout state of Circuit 1	0 = Normal 1 = Locked Out	Standard
BI-10132	Circuit 2 Lockout Active	Indicates the lockout state of Circuit 2	0 = Normal 1 = Locked Out	Standard
BI-10133	Circuit 1 Available	Indicates if circuit 1 is available to start	0 = Unavailable 1 = Available	Standard
BI-10134	Circuit 2 Available	Indicates if circuit 2 is available to start	0 = Unavailable 1 = Available	Standard
BI-10135	Oil Sensor Circuit 1	Indicates the status of the circuit 1 oil sensor	0 = Dry 1 = Wet	Standard
BI-10136	Oil Sensor Circuit 2	Indicates the status of the circuit 2 oil sensor	0 = Dry 1 = Wet	Standard
BI-10137	Evaporator Water Pump 1 Inverter Running Status	Indicates the running status of the evaporator water pump 1 inverter	0 = Off 1 = On	Evap Pump Control Variable Speed
BI-10138	Evaporator Water Pump 1 Fault Status	Indicates the fault status of the evaporator water pump 1 inverter	0 = Fault 1 = No Fault	Evap Pump Control Variable Speed
BI-10139	Compressor 1B Lockout Active	Indicates the lockout state of Compressor 1B	0 = Normal 1 = Locked Out	Standard
BI-10140	Compressor 2B Lockout Active	Indicates the lockout state of Compressor 2B	0 = Normal 1 = Locked Out	Standard
BI-10141	Free Cooling Front Panel Command Status	Indicates the status of the front panel free cooling command	0 = Off 1 = Auto	Free Cooling



Object Identifier	Object Name	Object States
BI-11000	Diagnostic: AFD 1A Bus Over Voltage	0 = Normal 1 = In Alarm
BI-11001	Diagnostic: AFD 1A Bus Under Voltage	0 = Normal 1 = In Alarm
BI-11002	Diagnostic: AFD 1A Comm Loss: Main Processor	0 = Normal 1 = In Alarm
BI-11003	Diagnostic: AFD 1A Customized Protection Fault	0 = Normal 1 = In Alarm
BI-11004	Diagnostic: AFD 1A Gate Kill Active	0 = Normal 1 = In Alarm
BI-11005	Diagnostic: AFD 1A General Failure (PF755)	0 = Normal 1 = In Alarm
BI-11006	Diagnostic: AFD 1A General Failure (TR200)	0 = Normal 1 = In Alarm
BI-11007	Diagnostic: AFD 1A Ground Fault	0 = Normal 1 = In Alarm
BI-11008	Diagnostic: AFD 1A Input Phase Loss	0 = Normal 1 = In Alarm
BI-11009	Diagnostic: AFD 1A Input Transf or Filter Over Temp	0 = Normal 1 = In Alarm
BI-11010	Diagnostic: AFD 1A Loss Of Motor Control	0 = Normal 1 = In Alarm
BI-11011	Diagnostic: AFD 1A Low Rotor Flux Feedback	0 = Normal 1 = In Alarm
BI-11012	Diagnostic: AFD 1A Motor Current Overload	0 = Normal 1 = In Alarm
BI-11013	Diagnostic: AFD 1A Motor Fault	0 = Normal 1 = In Alarm
BI-11014	Diagnostic: AFD 1A Motor Shorted	0 = Normal 1 = In Alarm
BI-11015	Diagnostic: AFD 1A Over Temperature	0 = Normal 1 = In Alarm
BI-11016	Diagnostic: AFD 1A Precharge Fault	0 = Normal 1 = In Alarm
BI-11017	Diagnostic: AFD 2A Bus Over Voltage	0 = Normal 1 = In Alarm
BI-11018	Diagnostic: AFD 2A Bus Under Voltage	0 = Normal 1 = In Alarm
BI-11019	Diagnostic: AFD 2A Comm Loss: Main Processor	0 = Normal 1 = In Alarm
BI-11020	Diagnostic: AFD 2A Customized Protection Fault	0 = Normal 1 = In Alarm
BI-11021	Diagnostic: AFD 2A Gate Kill Active	0 = Normal 1 = In Alarm
BI-11022	Diagnostic: AFD 2A General Failure (PF755)	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11023	Diagnostic: AFD 2A General Failure (TR200)	0 = Normal 1 = In Alarm
BI-11024	Diagnostic: AFD 2A Ground Fault	0 = Normal 1 = In Alarm
BI-11025	Diagnostic: AFD 2A Input Phase Loss	0 = Normal 1 = In Alarm
BI-11026	Diagnostic: AFD 2A Input Transf or Filter Over Temp	0 = Normal 1 = In Alarm
BI-11027	Diagnostic: AFD 2A Loss Of Motor Control	0 = Normal 1 = In Alarm
BI-11028	Diagnostic: AFD 2A Low Rotor Flux Feedback	0 = Normal 1 = In Alarm
BI-11029	Diagnostic: AFD 2A Motor Current Overload	0 = Normal 1 = In Alarm
BI-11030	Diagnostic: AFD 2A Motor Fault	0 = Normal 1 = In Alarm
BI-11031	Diagnostic: AFD 2A Motor Shorted	0 = Normal 1 = In Alarm
BI-11032	Diagnostic: AFD 2A Over Temperature	0 = Normal 1 = In Alarm
BI-11033	Diagnostic: AFD 2A Precharge Fault	0 = Normal 1 = In Alarm
BI-11034	Diagnostic: AFD Bus Over Voltage - 1A	0 = Normal 1 = In Alarm
BI-11035	Diagnostic: AFD Bus Over Voltage - 2A	0 = Normal 1 = In Alarm
BI-11036	Diagnostic: AFD Bus Under Voltage - 1A	0 = Normal 1 = In Alarm
BI-11037	Diagnostic: AFD Bus Under Voltage - 2A	0 = Normal 1 = In Alarm
BI-11038	Diagnostic: AFD Comm Loss – 1A	0 = Normal 1 = In Alarm
BI-11039	Diagnostic: AFD Comm Loss – 2A	0 = Normal 1 = In Alarm
BI-11040	Diagnostic: AFD Comm Loss: Main Processor - 1A	0 = Normal 1 = In Alarm
BI-11041	Diagnostic: AFD Comm Loss: Main Processor - 2A	0 = Normal 1 = In Alarm
BI-11042	Diagnostic: AFD Failure to Arm or Start - 1A	0 = Normal 1 = In Alarm
BI-11043	Diagnostic: AFD Failure to Arm or Start - 2A	0 = Normal 1 = In Alarm
BI-11044	Diagnostic: AFD Fault Mains - 1A	0 = Normal 1 = In Alarm
BI-11045	Diagnostic: AFD Fault Mains - 2A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11046	Diagnostic: AFD General Fault - 1A	0 = Normal 1 = In Alarm
BI-11047	Diagnostic: AFD General Fault - 2A	0 = Normal 1 = In Alarm
BI-11048	Diagnostic: AFD Ground Fault - 1A	0 = Normal 1 = In Alarm
BI-11049	Diagnostic: AFD Ground Fault - 2A	0 = Normal 1 = In Alarm
BI-11050	Diagnostic: AFD Harmonic Filter Over Temperature - 1A	0 = Normal 1 = In Alarm
BI-11051	Diagnostic: AFD Harmonic Filter Over Temperature - 2A	0 = Normal 1 = In Alarm
BI-11052	Diagnostic: AFD High Pressure Cutout - 1A	0 = Normal 1 = In Alarm
BI-11053	Diagnostic: AFD High Pressure Cutout - 2A	0 = Normal 1 = In Alarm
BI-11054	Diagnostic: AFD High Torque - 1A	0 = Normal 1 = In Alarm
BI-11055	Diagnostic: AFD High Torque - 2A	0 = Normal 1 = In Alarm
BI-11056	Diagnostic: AFD Initialized - 1A	0 = Normal 1 = In Alarm
BI-11057	Diagnostic: AFD Initialized - 2A	0 = Normal 1 = In Alarm
BI-11058	Diagnostic: AFD Internal Fault - 1A	0 = Normal 1 = In Alarm
BI-11059	Diagnostic: AFD Internal Fault - 2A	0 = Normal 1 = In Alarm
BI-11060	Diagnostic: AFD Interrupt Failure - 1A	0 = Normal 1 = In Alarm
BI-11061	Diagnostic: AFD Interrupt Failure - 1B	0 = Normal 1 = In Alarm
BI-11062	Diagnostic: AFD Interrupt Failure - 2A	0 = Normal 1 = In Alarm
BI-11063	Diagnostic: AFD Interrupt Failure - 2B	0 = Normal 1 = In Alarm
BI-11064	Diagnostic: AFD Inverter Heatsink Over Temperature - 1A	0 = Normal 1 = In Alarm
BI-11065	Diagnostic: AFD Inverter Heatsink Over Temperature - 2A	0 = Normal 1 = In Alarm
BI-11066	Diagnostic: AFD Locked Rotor - 1A	0 = Normal 1 = In Alarm
BI-11067	Diagnostic: AFD Locked Rotor - 2A	0 = Normal 1 = In Alarm
BI-11068	Diagnostic: AFD Mains Phase Loss - 1A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11069	Diagnostic: AFD Mains Phase Loss - 2A	0 = Normal 1 = In Alarm
BI-11070	Diagnostic: AFD Missing Motor - 1A	0 = Normal 1 = In Alarm
BI-11071	Diagnostic: AFD Missing Motor - 2A	0 = Normal 1 = In Alarm
BI-11073	Diagnostic: AFD Motor Current Overload - 1A (TR200)	0 = Normal 1 = In Alarm
BI-11074	Diagnostic: AFD Motor Current Overload - 1B	0 = Normal 1 = In Alarm
BI-11076	Diagnostic: AFD Motor Current Overload - 2A (TR200)	0 = Normal 1 = In Alarm
BI-11077	Diagnostic: AFD Motor Current Overload - 2B	0 = Normal 1 = In Alarm
BI-11078	Diagnostic: AFD Motor Fault - 1A	0 = Normal 1 = In Alarm
BI-11079	Diagnostic: AFD Motor Fault - 2A	0 = Normal 1 = In Alarm
BI-11080	Diagnostic: AFD New Spare Parts - 1A	0 = Normal 1 = In Alarm
BI-11081	Diagnostic: AFD New Spare Parts - 2A	0 = Normal 1 = In Alarm
BI-11082	Diagnostic: AFD Option Configuration Change - 1A	0 = Normal 1 = In Alarm
BI-11083	Diagnostic: AFD Option Configuration Change - 2A	0 = Normal 1 = In Alarm
BI-11084	Diagnostic: AFD Output Phase U Loss - 1A	0 = Normal 1 = In Alarm
BI-11085	Diagnostic: AFD Output Phase U Loss - 2A	0 = Normal 1 = In Alarm
BI-11086	Diagnostic: AFD Output Phase V Loss - 1A	0 = Normal 1 = In Alarm
BI-11087	Diagnostic: AFD Output Phase V Loss - 2A	0 = Normal 1 = In Alarm
BI-11088	Diagnostic: AFD Output Phase W Loss - 1A	0 = Normal 1 = In Alarm
BI-11089	Diagnostic: AFD Output Phase W Loss - 2A	0 = Normal 1 = In Alarm
BI-11090	Diagnostic: AFD Over Temperature - 1A	0 = Normal 1 = In Alarm
BI-11091	Diagnostic: AFD Over Temperature - 2A	0 = Normal 1 = In Alarm
BI-11092	Diagnostic: AFD Short Circuit - 1A	0 = Normal 1 = In Alarm
BI-11093	Diagnostic: AFD Short Circuit - 2A	0 = Normal 1 = In Alarm





Object Identifier	Object Name	Object States
BI-11094	Diagnostic: AFD Unexpected Shutdown - 1A	0 = Normal 1 = In Alarm
BI-11095	Diagnostic: AFD Unexpected Shutdown - 2A	0 = Normal 1 = In Alarm
BI-11096	Diagnostic: Check Clock	0 = Normal 1 = In Alarm
BI-11097	Diagnostic: Chiller Service Recommended	0 = Normal 1 = In Alarm
BI-11098	Comm Loss: %RLA Indication Output(Vdc)	0 = Normal 1 = In Alarm
BI-11099	Comm Loss: AFD Fault Input 1A	0 = Normal 1 = In Alarm
BI-11100	Comm Loss: AFD Fault Input 1B	0 = Normal 1 = In Alarm
BI-11101	Comm Loss: AFD Fault Input 2A	0 = Normal 1 = In Alarm
BI-11102	Comm Loss: AFD Fault Input 2B	0 = Normal 1 = In Alarm
BI-11103	Comm Loss: Auxiliary Setpoint Command	0 = Normal 1 = In Alarm
BI-11104	Comm Loss: Cond Fan Enbl Shared Ckt 1&2	0 = Normal 1 = In Alarm
BI-11105	Comm Loss: Cond Rfgt Tank Valve Ckt1	0 = Normal 1 = In Alarm
BI-11106	Comm Loss: Cond Rfgt Tank Valve Ckt2	0 = Normal 1 = In Alarm
BI-11107	Comm Loss: Condenser Fan Enable Circuit 1	0 = Normal 1 = In Alarm
BI-11108	Comm Loss: Condenser Fan Enable Circuit 2	0 = Normal 1 = In Alarm
BI-11109	Comm Loss: Condenser Rfgt Pressure Circuit 1	0 = Normal 1 = In Alarm
BI-11110	Comm Loss: Condenser Rfgt Pressure Circuit 2	0 = Normal 1 = In Alarm
BI-11111	Comm Loss: Cprsr Disch Rfgt Temp - 1A	0 = Normal 1 = In Alarm
BI-11112	Comm Loss: Cprsr Disch Rfgt Temp - 1B	0 = Normal 1 = In Alarm
BI-11113	Comm Loss: Cprsr Disch Rfgt Temp - 2A	0 = Normal 1 = In Alarm
BI-11114	Comm Loss: Cprsr Disch Rfgt Temp - 2B	0 = Normal 1 = In Alarm
BI-11115	Comm Loss: Drive Cooling Bypass Valve 1A	0 = Normal 1 = In Alarm
BI-11116	Comm Loss: Drive Cooling Bypass Valve 2A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11117	Comm Loss: Drive Cooling Supply Temp 1A	0 = Normal 1 = In Alarm
BI-11118	Comm Loss: Drive Cooling Supply Temp 2A	0 = Normal 1 = In Alarm
BI-11119	Comm Loss: Economizer Disch Press - 1A	0 = Normal 1 = In Alarm
BI-11120	Comm Loss: Economizer Disch Press - 1B	0 = Normal 1 = In Alarm
BI-11121	Comm Loss: Economizer Disch Press - 2A	0 = Normal 1 = In Alarm
BI-11122	Comm Loss: Economizer Disch Press - 2B	0 = Normal 1 = In Alarm
BI-11123	Comm Loss: Economizer Disch Temp - 1A	0 = Normal 1 = In Alarm
BI-11124	Comm Loss: Economizer Disch Temp - 1B	0 = Normal 1 = In Alarm
BI-11125	Comm Loss: Economizer Disch Temp - 2A	0 = Normal 1 = In Alarm
BI-11126	Comm Loss: Economizer Disch Temp - 2B	0 = Normal 1 = In Alarm
BI-11127	Comm Loss: Economizer Valve - 1A	0 = Normal 1 = In Alarm
BI-11128	Comm Loss: Economizer Valve - 1B	0 = Normal 1 = In Alarm
BI-11129	Comm Loss: Economizer Valve - 2A	0 = Normal 1 = In Alarm
BI-11130	Comm Loss: Economizer Valve - 2B	0 = Normal 1 = In Alarm
BI-11131	Comm Loss: Electronic Expansion Valve 1 Compressor 1A	0 = Normal 1 = In Alarm
BI-11132	Comm Loss: Electronic Expansion Valve 1 Compressor 2A	0 = Normal 1 = In Alarm
BI-11133	Comm Loss: Electronic Expansion Valve 2 Compressor 1B	0 = Normal 1 = In Alarm
BI-11134	Comm Loss: Electronic Expansion Valve 2 Compressor 2B	0 = Normal 1 = In Alarm
BI-11135	Comm Loss: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI-11136	Comm Loss: Energy Meter 1	0 = Normal 1 = In Alarm
BI-11137	Comm Loss: Energy Meter 2	0 = Normal 1 = In Alarm
BI-11138	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm
BI-11139	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11140	Comm Loss: Evap Iso Valve Close Switch Compressor 1A	0 = Normal 1 = In Alarm
BI-11141	Comm Loss: Evap Iso Valve Close Switch Compressor 2A	0 = Normal 1 = In Alarm
BI-11142	Comm Loss: Evap Iso Valve Open Switch Compressor 1A	0 = Normal 1 = In Alarm
BI-11143	Comm Loss: Evap Iso Valve Open Switch Compressor 2A	0 = Normal 1 = In Alarm
BI-11144	Comm Loss: Evap Isolation Valve Relay Compressor 1A	0 = Normal 1 = In Alarm
BI-11145	Comm Loss: Evap Isolation Valve Relay Compressor 2A	0 = Normal 1 = In Alarm
BI-11146	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm
BI-11147	Comm Loss: Evap Pump Inv1 Fault Input	0 = Normal 1 = In Alarm
BI-11148	Comm Loss: Evap Pump Inv1 Run Command	0 = Normal 1 = In Alarm
BI-11149	Comm Loss: Evap Rfgt Pool Temp Circuit 1	0 = Normal 1 = In Alarm
BI-11150	Comm Loss: Evap Rfgt Pool Temp Circuit 2	0 = Normal 1 = In Alarm
BI-11151	Comm Loss: Evap Water Pump Inv Freq Input	0 = Normal 1 = In Alarm
BI-11152	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
BI-11153	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
BI-11154	Comm Loss: Evaporator Oil Return Purge Valve - 1A	0 = Normal 1 = In Alarm
BI-11155	Comm Loss: Evaporator Oil Return Purge Valve - 2A	0 = Normal 1 = In Alarm
BI-11156	Comm Loss: Evaporator Pump 1 Fault Input	0 = Normal 1 = In Alarm
BI-11157	Comm Loss: Evaporator Pump 2 Fault Input	0 = Normal 1 = In Alarm
BI-11158	Comm Loss: Evaporator Pump Fault Input	0 = Normal 1 = In Alarm
BI-11159	Comm Loss: Evaporator Pump Inverter Running Status	0 = Normal 1 = In Alarm
BI-11160	Comm Loss: Evaporator Pump Speed Command	0 = Normal 1 = In Alarm
BI-11161	Comm Loss: Evaporator Pump Speed Feedback	0 = Normal 1 = In Alarm
BI-11162	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11163	Comm Loss: Evaporator Water Pump 1 Relay	0 = Normal 1 = In Alarm
BI-11164	Comm Loss: Evaporator Water Pump 2 Relay	0 = Normal 1 = In Alarm
BI-11165	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm
BI-11166	Comm Loss: Ext Chilled Water Setpoint	0 = Normal 1 = In Alarm
BI-11167	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI-11168	Comm Loss: Ext Noise Reduction Request	0 = Normal 1 = In Alarm
BI-11169	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm
BI-11170	Comm Loss: External Ckt Lockout Circuit 1	0 = Normal 1 = In Alarm
BI-11171	Comm Loss: External Ckt Lockout Circuit 2	0 = Normal 1 = In Alarm
BI-11172	Comm Loss: External Heat Recovery Command	0 = Normal 1 = In Alarm
BI-11173	Comm Loss: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
BI-11174	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm
BI-11175	Comm Loss: Fan Board 1 Relay 1 Circuit 1	0 = Normal 1 = In Alarm
BI-11176	Comm Loss: Fan Board 1 Relay 1 Circuit 2	0 = Normal 1 = In Alarm
BI-11177	Comm Loss: Fan Board 1 Relay 2 Circuit 1	0 = Normal 1 = In Alarm
BI-11178	Comm Loss: Fan Board 1 Relay 2 Circuit 2	0 = Normal 1 = In Alarm
BI-11179	Comm Loss: Fan Board 1 Relay 3 Circuit 1	0 = Normal 1 = In Alarm
BI-11180	Comm Loss: Fan Board 1 Relay 3 Circuit 2	0 = Normal 1 = In Alarm
BI-11181	Comm Loss: Fan Board 1 Relay 4 Circuit 1	0 = Normal 1 = In Alarm
BI-11182	Comm Loss: Fan Board 1 Relay 4 Circuit 2	0 = Normal 1 = In Alarm
BI-11183	Comm Loss: Fan Board 2 Relay 1 Circuit 1	0 = Normal 1 = In Alarm
BI-11184	Comm Loss: Fan Board 2 Relay 1 Circuit 2	0 = Normal 1 = In Alarm
BI-11185	Comm Loss: Fan Board 2 Relay 2 Circuit 1	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11186	Comm Loss: Fan Board 2 Relay 2 Circuit 2	0 = Normal 1 = In Alarm
BI-11187	Comm Loss: Fan Board 2 Relay 3 Circuit 1	0 = Normal 1 = In Alarm
BI-11188	Comm Loss: Fan Board 2 Relay 3 Circuit 2	0 = Normal 1 = In Alarm
BI-11189	Comm Loss: Fan Board 2 Relay 4 Circuit 1	0 = Normal 1 = In Alarm
BI-11190	Comm Loss: Fan Board 2 Relay 4 Circuit 2	0 = Normal 1 = In Alarm
BI-11191	Comm Loss: Fan Inv Spd Cmd, Shrd Circuit 1 & 2	0 = Normal 1 = In Alarm
BI-11192	Comm Loss: Fan Inverter Fault Circuit 1	0 = Normal 1 = In Alarm
BI-11193	Comm Loss: Fan Inverter Fault Circuit 2	0 = Normal 1 = In Alarm
BI-11194	Comm Loss: Fan Inverter Speed Command Circuit 1	0 = Normal 1 = In Alarm
BI-11195	Comm Loss: Fan Inverter Speed Command Circuit 2	0 = Normal 1 = In Alarm
BI-11196	Comm Loss: FC Entering Glycol Temp	0 = Normal 1 = In Alarm
BI-11197	Comm Loss: FC Entering Water Temp	0 = Normal 1 = In Alarm
BI-11198	Comm Loss: FC Leaving Glycol Temp	0 = Normal 1 = In Alarm
BI-11199	Comm Loss: Free Cooling Bypass Valve	0 = Normal 1 = In Alarm
BI-11200	Comm Loss: Free Cooling Dedicated Fan Enable	0 = Normal 1 = In Alarm
BI-11201	Comm Loss: Free Cooling Dedicated Fan Inverter Fault	0 = Normal 1 = In Alarm
BI-11202	Comm Loss: Free Cooling Dedicated Fan Inverter Speed Command	0 = Normal 1 = In Alarm
BI-11203	Comm Loss: Free Cooling Glycol Flow Switch	0 = Normal 1 = In Alarm
BI-11204	Comm Loss: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
BI-11205	Comm Loss: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
BI-11206	Comm Loss: Free Cooling Pump	0 = Normal 1 = In Alarm
BI-11207	Comm Loss: Free Cooling Valve	0 = Normal 1 = In Alarm
BI-11208	Comm Loss: Heat Recovery Mode Valve Command - Ckt1	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11209	Comm Loss: Heat Recovery Mode Valve Command - Ckt2	0 = Normal 1 = In Alarm
BI-11210	Comm Loss: Heat Recovery Water Flow Cmd	0 = Normal 1 = In Alarm
BI-11211	Comm Loss: Heat Recovery Water Pump Relay	0 = Normal 1 = In Alarm
BI-11212	Comm Loss: Heat Recovery Water Flow Switch	0 = Normal 1 = In Alarm
BI-11213	Comm Loss: High Pressure Cutout Sw - 1A	0 = Normal 1 = In Alarm
BI-11214	Comm Loss: High Pressure Cutout Sw - 1B	0 = Normal 1 = In Alarm
BI-11215	Comm Loss: High Pressure Cutout Sw - 2A	0 = Normal 1 = In Alarm
BI-11216	Comm Loss: High Pressure Cutout Sw - 2B	0 = Normal 1 = In Alarm
BI-11217	Comm Loss: Hot Gas Oil Return Valve - 1A	0 = Normal 1 = In Alarm
BI-11218	Comm Loss: Hot Gas Oil Return Valve - 2A	0 = Normal 1 = In Alarm
BI-11219	Comm Loss: HR Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11220	Comm Loss: HR Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11221	Comm Loss: Liquid Line Pressure Circuit 1	0 = Normal 1 = In Alarm
BI-11222	Comm Loss: Liquid Line Pressure Circuit 2	0 = Normal 1 = In Alarm
BI-11223	Comm Loss: Liquid Line Temperature Circuit 1	0 = Normal 1 = In Alarm
BI-11224	Comm Loss: Liquid Line Temperature Circuit 2	0 = Normal 1 = In Alarm
BI-11225	Comm Loss: Motor Winding Tstat Cprsr1A	0 = Normal 1 = In Alarm
BI-11226	Comm Loss: Motor Winding Tstat Cprsr2A	0 = Normal 1 = In Alarm
BI-11227	Comm Loss: Off-cycle Freeze Prot Relay	0 = Normal 1 = In Alarm
BI-11228	Comm Loss: Oil Loss Level Sensor Input Circuit 1	0 = Normal 1 = In Alarm
BI-11229	Comm Loss: Oil Loss Level Sensor Input Circuit 2	0 = Normal 1 = In Alarm
BI-11230	Comm Loss: Oil Pressure - 1A	0 = Normal 1 = In Alarm
BI-11231	Comm Loss: Oil Pressure - 1B	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11232	Comm Loss: Oil Pressure - 2A	0 = Normal 1 = In Alarm
BI-11233	Comm Loss: Oil Pressure - 2B	0 = Normal 1 = In Alarm
BI-11234	Comm Loss: Oil Return Solenoid Valve - 1B	0 = Normal 1 = In Alarm
BI-11235	Comm Loss: Oil Return Solenoid Valve - 2B	0 = Normal 1 = In Alarm
BI-11236	Comm Loss: Oil Return Valve - 1A	0 = Normal 1 = In Alarm
BI-11237	Comm Loss: Oil Return Valve - 2A	0 = Normal 1 = In Alarm
BI-11238	Comm Loss: Oil Supply Temperature	0 = Normal 1 = In Alarm
BI-11239	Comm Loss: Oil Supply Temperature	0 = Normal 1 = In Alarm
BI-11240	Comm Loss: Oil Temperature - 1A	0 = Normal 1 = In Alarm
BI-11241	Comm Loss: Oil Temperature - 1B	0 = Normal 1 = In Alarm
BI-11242	Comm Loss: Oil Temperature - 2A	0 = Normal 1 = In Alarm
BI-11243	Comm Loss: Oil Temperature - 2B	0 = Normal 1 = In Alarm
BI-11244	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm
BI-11245	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm
BI-11246	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm
BI-11247	Comm Loss: Slide Valve Load - 1A	0 = Normal 1 = In Alarm
BI-11248	Comm Loss: Slide Valve Load - 1B	0 = Normal 1 = In Alarm
BI-11249	Comm Loss: Slide Valve Load - 2A	0 = Normal 1 = In Alarm
BI-11250	Comm Loss: Slide Valve Load - 2B	0 = Normal 1 = In Alarm
BI-11251	Comm Loss: Slide Valve Unload - 1A	0 = Normal 1 = In Alarm
BI-11252	Comm Loss: Slide Valve Unload - 1B	0 = Normal 1 = In Alarm
BI-11253	Comm Loss: Slide Valve Unload - 2A	0 = Normal 1 = In Alarm
BI-11254	Comm Loss: Slide Valve Unload - 2B	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11255	Comm Loss: Starter 1A	0 = Normal 1 = In Alarm
BI-11256	Comm Loss: Starter 1B	0 = Normal 1 = In Alarm
BI-11257	Comm Loss: Starter 2A	0 = Normal 1 = In Alarm
BI-11258	Comm Loss: Starter 2B	0 = Normal 1 = In Alarm
BI-11259	Comm Loss: Step Load - 1A	0 = Normal 1 = In Alarm
BI-11260	Comm Loss: Step Load - 1B	0 = Normal 1 = In Alarm
BI-11261	Comm Loss: Step Load - 2A	0 = Normal 1 = In Alarm
BI-11262	Comm Loss: Step Load - 2B	0 = Normal 1 = In Alarm
BI-11263	Comm Loss: Suction Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
BI-11264	Comm Loss: Suction Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11265	Comm Loss: Suction Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11266	Comm Loss: Suction Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11267	Comm Loss: Var Vi Valve – Cprsr1A	0 = Normal 1 = In Alarm
BI-11268	Comm Loss: Var Vi Valve – Cprsr2A	0 = Normal 1 = In Alarm
BI-11269	Comm Loss: Winding Temp 1, Cprsr1A	0 = Normal 1 = In Alarm
BI-11270	Comm Loss: Winding Temp 1, Cprsr2A	0 = Normal 1 = In Alarm
BI-11271	Comm Loss: Winding Temp 2, Cprsr1A	0 = Normal 1 = In Alarm
BI-11272	Comm Loss: Winding Temp 2, Cprsr2A	0 = Normal 1 = In Alarm
BI-11273	Diagnostic: Condenser Rfgt Pressure Sensor Circuit 1	0 = Normal 1 = In Alarm
BI-11274	Diagnostic: Condenser Rfgt Pressure Sensor Circuit 2	0 = Normal 1 = In Alarm
BI-11275	Diagnostic: Cprsr Did Not Accel: Shutdown - 1A	0 = Normal 1 = In Alarm
BI-11276	Diagnostic: Cprsr Did Not Accel: Shutdown - 1B	0 = Normal 1 = In Alarm
BI-11277	Diagnostic: Cprsr Did Not Accel: Shutdown - 2A	0 = Normal 1 = In Alarm





Object Identifier	Object Name	Object States
BI-11278	Diagnostic: Cprsr Did Not Accel: Shutdown - 2B	0 = Normal 1 = In Alarm
BI-11279	Diagnostic: Cprsr Did Not Accel: Transition - 1A	0 = Normal 1 = In Alarm
BI-11280	Diagnostic: Cprsr Did Not Accel: Transition - 1B	0 = Normal 1 = In Alarm
BI-11281	Diagnostic: Cprsr Did Not Accel: Transition - 2A	0 = Normal 1 = In Alarm
BI-11282	Diagnostic: Cprsr Did Not Accel: Transition - 2B	0 = Normal 1 = In Alarm
BI-11283	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 1A	0 = Normal 1 = In Alarm
BI-11284	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 1B	0 = Normal 1 = In Alarm
BI-11285	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 2A	0 = Normal 1 = In Alarm
BI-11286	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 2B	0 = Normal 1 = In Alarm
BI-11287	Diagnostic: Drive Cooling Supply Temp Sensor - 1A	0 = Normal 1 = In Alarm
BI-11288	Diagnostic: Drive Cooling Supply Temp Sensor - 2A	0 = Normal 1 = In Alarm
BI-11289	Diagnostic: Economizer Disch Press Sensor - 1A	0 = Normal 1 = In Alarm
BI-11290	Diagnostic: Economizer Disch Press Sensor - 1B	0 = Normal 1 = In Alarm
BI-11291	Diagnostic: Economizer Disch Press Sensor - 2A	0 = Normal 1 = In Alarm
BI-11292	Diagnostic: Economizer Disch Press Sensor - 2B	0 = Normal 1 = In Alarm
BI-11293	Diagnostic: Economizer Disch Temp Sensor - 1A	0 = Normal 1 = In Alarm
BI-11294	Diagnostic: Economizer Disch Temp Sensor - 1B	0 = Normal 1 = In Alarm
BI-11295	Diagnostic: Economizer Disch Temp Sensor - 2A	0 = Normal 1 = In Alarm
BI-11296	Diagnostic: Economizer Disch Temp Sensor - 2B	0 = Normal 1 = In Alarm
BI-11297	Diagnostic: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI-11298	Diagnostic: Evap Iso Valve Illegal Switch State Compressor 1A	0 = Normal 1 = In Alarm
BI-11299	Diagnostic: Evap Iso Valve Illegal Switch State Compressor 2A	0 = Normal 1 = In Alarm
BI-11300	Diagnostic: Evap Isolation Valve Closed Switch Failure Compressor 1A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11301	Diagnostic: Evap Isolation Valve Closed Switch Failure Compressor 2A	0 = Normal 1 = In Alarm
BI-11302	Diagnostic: Evap Isolation Valve Failed To Close Compressor 1A	0 = Normal 1 = In Alarm
BI-11303	Diagnostic: Evap Isolation Valve Failed To Close Compressor 2A	0 = Normal 1 = In Alarm
BI-11304	Diagnostic: Evap Isolation Valve Failed To Open Compressor 1A	0 = Normal 1 = In Alarm
BI-11305	Diagnostic: Evap Isolation Valve Failed To Open Compressor 2A	0 = Normal 1 = In Alarm
BI-11306	Diagnostic: Evap Isolation Valve Open Switch Failure Compressor 1A	0 = Normal 1 = In Alarm
BI-11307	Diagnostic: Evap Isolation Valve Open Switch Failure Compressor 2A	0 = Normal 1 = In Alarm
BI-11308	Diagnostic: Evap Pump 1 Starts Run time Written	0 = Normal 1 = In Alarm
BI-11309	Diagnostic: Evap Pump 2 Starts Run time Written	0 = Normal 1 = In Alarm
BI-11310	Diagnostic: Evap Rfgt Pool Temp Sensor Circuit 1	0 = Normal 1 = In Alarm
BI-11311	Diagnostic: Evap Rfgt Pool Temp Sensor Circuit 2	0 = Normal 1 = In Alarm
BI-11312	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt1	0 = Normal 1 = In Alarm
BI-11313	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt2	0 = Normal 1 = In Alarm
BI-11314	Diagnostic: Evap Water Pump 1 Svc Recommended	0 = Normal 1 = In Alarm
BI-11315	Diagnostic: Evap Water Pump 2 Svc Recommended	0 = Normal 1 = In Alarm
BI-11316	Diagnostic: Evaporator Approach Error Circuit 1	0 = Normal 1 = In Alarm
BI-11317	Diagnostic: Evaporator Approach Error Circuit 2	0 = Normal 1 = In Alarm
BI-11318	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm
BI-11319	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
BI-11320	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11321	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
BI-11322	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11323	Diagnostic: Evaporator Pump 1 Fault	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11324	Diagnostic: Evaporator Pump 2 Fault	0 = Normal 1 = In Alarm
BI-11325	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm
BI-11326	Diagnostic: Evaporator Water Flow Lost - Pump1	0 = Normal 1 = In Alarm
BI-11327	Diagnostic: Evaporator Water Flow Lost - Pump2	0 = Normal 1 = In Alarm
BI-11328	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm
BI-11329	Diagnostic: Evaporator Water Flow Overdue - Pump1	0 = Normal 1 = In Alarm
BI-11330	Diagnostic: Evaporator Water Flow Overdue - Pump2	0 = Normal 1 = In Alarm
BI-11331	Diagnostic: Evaporator Water Pump Fault	0 = Normal 1 = In Alarm
BI-11332	Diagnostic: Evaporator Water Pump Speed Feedback	0 = Normal 1 = In Alarm
BI-11333	Diagnostic: Excessive Condenser Pressure Circuit 1	0 = Normal 1 = In Alarm
BI-11334	Diagnostic: Excessive Condenser Pressure Circuit 2	0 = Normal 1 = In Alarm
BI-11335	Diagnostic: External Chilled Water Setpoint	0 = Normal 1 = In Alarm
BI-11336	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI-11337	Diagnostic: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
BI-11338	Diagnostic: Fan Inverter Fault Circuit 1	0 = Normal 1 = In Alarm
BI-11339	Diagnostic: Fan Inverter Fault Circuit 2	0 = Normal 1 = In Alarm
BI-11340	Diagnostic: Free Cooling Dedicated Fan Inverter Fault	0 = Normal 1 = In Alarm
BI-11341	Diagnostic: Free Cooling Entering Glycol Temperature	0 = Normal 1 = In Alarm
BI-11342	Diagnostic: Free Cooling Entering Water Temperature	0 = Normal 1 = In Alarm
BI-11343	Diagnostic: Free Cooling Glycol Flow Lost	0 = Normal 1 = In Alarm
BI-11344	Diagnostic: Free Cooling Glycol Flow Overdue	0 = Normal 1 = In Alarm
BI-11345	Diagnostic: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
BI-11346	Diagnostic: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11347	Diagnostic: Free Cooling Glycol Temperature Equalization Overdue	0 = Normal 1 = In Alarm
BI-11348	Diagnostic: Free Cooling Leaving Glycol Temperature	0 = Normal 1 = In Alarm
BI-11349	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11350	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11351	Diagnostic: Heat Recovery Water Flow Lost	0 = Normal 1 = In Alarm
BI-11352	Diagnostic: Heat Recovery Water Flow Overdue	0 = Normal 1 = In Alarm
BI-11353	Diagnostic: High Cprsr Rfgt Discharge Temp - 1A	0 = Normal 1 = In Alarm
BI-11354	Diagnostic: High Cprsr Rfgt Discharge Temp - 1B	0 = Normal 1 = In Alarm
BI-11355	Diagnostic: High Cprsr Rfgt Discharge Temp - 2A	0 = Normal 1 = In Alarm
BI-11356	Diagnostic: High Cprsr Rfgt Discharge Temp - 2B	0 = Normal 1 = In Alarm
BI-11357	Diagnostic: High Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
BI-11358	Diagnostic: High Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11359	Diagnostic: High Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11360	Diagnostic: High Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11361	Diagnostic: High Evaporator Refrigerant Pressure	0 = Normal 1 = In Alarm
BI-11362	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI-11363	Diagnostic: High Motor Winding Temperature - 1A	0 = Normal 1 = In Alarm
BI-11364	Diagnostic: High Motor Winding Temperature - 2A	0 = Normal 1 = In Alarm
BI-11365	Diagnostic: High Oil Temperature - 1A	0 = Normal 1 = In Alarm
BI-11366	Diagnostic: High Oil Temperature - 1B	0 = Normal 1 = In Alarm
BI-11367	Diagnostic: High Oil Temperature - 2A	0 = Normal 1 = In Alarm
BI-11368	Diagnostic: High Oil Temperature - 2B	0 = Normal 1 = In Alarm
BI-11369	Diagnostic: High Pressure Cutout - 1A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11370	Diagnostic: High Pressure Cutout - 1B	0 = Normal 1 = In Alarm
BI-11371	Diagnostic: High Pressure Cutout - 2A	0 = Normal 1 = In Alarm
BI-11372	Diagnostic: High Pressure Cutout - 2B	0 = Normal 1 = In Alarm
BI-11373	Diagnostic: High Refrigerant Pressure Ratio - 1A	0 = Normal 1 = In Alarm
BI-11374	Diagnostic: High Refrigerant Pressure Ratio - 1B	0 = Normal 1 = In Alarm
BI-11375	Diagnostic: High Refrigerant Pressure Ratio - 2A	0 = Normal 1 = In Alarm
BI-11376	Diagnostic: High Refrigerant Pressure Ratio - 2B	0 = Normal 1 = In Alarm
BI-11377	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI-11378	Diagnostic: Liquid Line Pressure Sensor Circuit 1	0 = Normal 1 = In Alarm
BI-11379	Diagnostic: Liquid Line Pressure Sensor Circuit 2	0 = Normal 1 = In Alarm
BI-11380	Diagnostic: Liquid Line Temp Sensor Circuit 1	0 = Normal 1 = In Alarm
BI-11381	Diagnostic: Liquid Line Temp Sensor Circuit 2	0 = Normal 1 = In Alarm
BI-11382	Diagnostic: Loss of Oil for Compressor (Running) Compressor 1A	0 = Normal 1 = In Alarm
BI-11383	Diagnostic: Loss of Oil for Compressor (Running) Compressor 2A	0 = Normal 1 = In Alarm
BI-11384	Diagnostic: Loss of Oil for Compressor (Stopped) Compressor 1A	0 = Normal 1 = In Alarm
BI-11385	Diagnostic: Loss of Oil for Compressor (Stopped) Compressor 2A	0 = Normal 1 = In Alarm
BI-11386	Diagnostic: Low Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
BI-11387	Diagnostic: Low Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11388	Diagnostic: Low Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11389	Diagnostic: Low Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11390	Diagnostic: Low Discharge Superheat - 1A	0 = Normal 1 = In Alarm
BI-11391	Diagnostic: Low Discharge Superheat - 1B	0 = Normal 1 = In Alarm
BI-11392	Diagnostic: Low Discharge Superheat - 2A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11393	Diagnostic: Low Discharge Superheat - 2B	0 = Normal 1 = In Alarm
BI-11394	Diagnostic: Low Drive Cooling Supply Temperature - 1A	0 = Normal 1 = In Alarm
BI-11395	Diagnostic: Low Drive Cooling Supply Temperature - 2A	0 = Normal 1 = In Alarm
BI-11396	Diagnostic: Low Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
BI-11397	Diagnostic: Low Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
BI-11398	Diagnostic: Low Evaporator Rfgt Temp Ckt 1: Unit Off	0 = Normal 1 = In Alarm
BI-11399	Diagnostic: Low Evaporator Rfgt Temp Ckt 2: Unit Off	0 = Normal 1 = In Alarm
BI-11400	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm
BI-11401	Diagnostic: Low Evaporator Water Temp (Unit Off)	0 = Normal 1 = In Alarm
BI-11402	Diagnostic: Low Evaporator Water Temp (Unit On)	0 = Normal 1 = In Alarm
BI-11403	Diagnostic: Low Glycol Pressure Free Cooling	0 = Normal 1 = In Alarm
BI-11404	Diagnostic: Low Glycol Temp Free Cooling	0 = Normal 1 = In Alarm
BI-11405	Diagnostic: Low Oil Flow - 1A	0 = Normal 1 = In Alarm
BI-11406	Diagnostic: Low Oil Flow - 1B	0 = Normal 1 = In Alarm
BI-11407	Diagnostic: Low Oil Flow - 2A	0 = Normal 1 = In Alarm
BI-11408	Diagnostic: Low Oil Flow - 2B	0 = Normal 1 = In Alarm
BI-11409	Diagnostic: Low Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm
BI-11410	Diagnostic: Low Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm
BI-11411	Diagnostic: Low Suction Refrigerant Pressure - 1A	0 = Normal 1 = In Alarm
BI-11412	Diagnostic: Low Suction Refrigerant Pressure - 1B	0 = Normal 1 = In Alarm
BI-11413	Diagnostic: Low Suction Refrigerant Pressure - 2A	0 = Normal 1 = In Alarm
BI-11414	Diagnostic: Low Suction Refrigerant Pressure - 2B	0 = Normal 1 = In Alarm
BI-11415	Diagnostic: Mfr Maintenance Recommended - 1A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11416	Diagnostic: Mfr Maintenance Recommended - 1B	0 = Normal 1 = In Alarm
BI-11417	Diagnostic: Mfr Maintenance Recommended - 2A	0 = Normal 1 = In Alarm
BI-11418	Diagnostic: Mfr Maintenance Recommended - 2B	0 = Normal 1 = In Alarm
BI-11419	Diagnostic: Momentary Power Loss Compressor 1A	0 = Normal 1 = In Alarm
BI-11420	Diagnostic: Momentary Power Loss Compressor 2A	0 = Normal 1 = In Alarm
BI-11421	Diagnostic: Motor Current Overload - 1A	0 = Normal 1 = In Alarm
BI-11422	Diagnostic: Motor Current Overload - 1B	0 = Normal 1 = In Alarm
BI-11423	Diagnostic: Motor Current Overload - 2A	0 = Normal 1 = In Alarm
BI-11424	Diagnostic: Motor Current Overload - 2B	0 = Normal 1 = In Alarm
BI-11425	Diagnostic: Motor Winding Temp Sensor - 1A	0 = Normal 1 = In Alarm
BI-11426	Diagnostic: Motor Winding Temp Sensor - 2A	0 = Normal 1 = In Alarm
BI-11427	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm
BI-11428	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm
BI-11429	Diagnostic: No Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
BI-11430	Diagnostic: No Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11431	Diagnostic: No Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11432	Diagnostic: No Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11433	Diagnostic: Oil Filter Change Recommended - Cprsr1A	0 = Normal 1 = In Alarm
BI-11434	Diagnostic: Oil Filter Change Recommended - Cprsr2A	0 = Normal 1 = In Alarm
BI-11435	Diagnostic: Oil Flow Protection Fault - 1A	0 = Normal 1 = In Alarm
BI-11436	Diagnostic: Oil Flow Protection Fault - 1B	0 = Normal 1 = In Alarm
BI-11437	Diagnostic: Oil Flow Protection Fault - 2A	0 = Normal 1 = In Alarm
BI-11438	Diagnostic: Oil Flow Protection Fault - 2B	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11439	Diagnostic: Oil Pressure Sensor - 1A	0 = Normal 1 = In Alarm
BI-11440	Diagnostic: Oil Pressure Sensor - 1B	0 = Normal 1 = In Alarm
BI-11441	Diagnostic: Oil Pressure Sensor - 2A	0 = Normal 1 = In Alarm
BI-11442	Diagnostic: Oil Pressure Sensor - 2B	0 = Normal 1 = In Alarm
BI-11443	Diagnostic: Oil Supply Temp Sensor Circuit 1	0 = Normal 1 = In Alarm
BI-11444	Diagnostic: Oil Supply Temp Sensor Circuit 2	0 = Normal 1 = In Alarm
BI-11445	Diagnostic: Oil Temperature Sensor - 1A	0 = Normal 1 = In Alarm
BI-11446	Diagnostic: Oil Temperature Sensor - 1B	0 = Normal 1 = In Alarm
BI-11447	Diagnostic: Oil Temperature Sensor - 2A	0 = Normal 1 = In Alarm
BI-11448	Diagnostic: Oil Temperature Sensor - 2B	0 = Normal 1 = In Alarm
BI-11449	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm
BI-11450	Diagnostic: Over Voltage	0 = Normal 1 = In Alarm
BI-11451	Diagnostic: Phase Loss - 1A	0 = Normal 1 = In Alarm
BI-11452	Diagnostic: Phase Loss - 1B	0 = Normal 1 = In Alarm
BI-11453	Diagnostic: Phase Loss - 2A	0 = Normal 1 = In Alarm
BI-11454	Diagnostic: Phase Loss - 2B	0 = Normal 1 = In Alarm
BI-11455	Diagnostic: Phase Reversal - 1A	0 = Normal 1 = In Alarm
BI-11456	Diagnostic: Phase Reversal - 1B	0 = Normal 1 = In Alarm
BI-11457	Diagnostic: Phase Reversal - 2A	0 = Normal 1 = In Alarm
BI-11458	Diagnostic: Phase Reversal - 2B	0 = Normal 1 = In Alarm
BI-11459	Diagnostic: Power Loss - 1A	0 = Normal 1 = In Alarm
BI-11460	Diagnostic: Power Loss - 1B	0 = Normal 1 = In Alarm
BI-11461	Diagnostic: Power Loss - 2A	0 = Normal 1 = In Alarm





Object Identifier	Object Name	Object States
BI-11462	Diagnostic: Power Loss - 2B	0 = Normal 1 = In Alarm
BI-11463	Diagnostic: Pumpdown Terminated By Time Circuit 1	0 = Normal 1 = In Alarm
BI-11464	Diagnostic: Pumpdown Terminated By Time Circuit 2	0 = Normal 1 = In Alarm
BI-11465	Diagnostic: Restart Inhibit Invoked - 1A	0 = Normal 1 = In Alarm
BI-11466	Diagnostic: Restart Inhibit Invoked - 1B	0 = Normal 1 = In Alarm
BI-11467	Diagnostic: Restart Inhibit Invoked - 2A	0 = Normal 1 = In Alarm
BI-11468	Diagnostic: Restart Inhibit Invoked - 2B	0 = Normal 1 = In Alarm
BI-11469	Diagnostic: Severe Current Imbalance - 1A	0 = Normal 1 = In Alarm
BI-11470	Diagnostic: Severe Current Imbalance - 1B	0 = Normal 1 = In Alarm
BI-11471	Diagnostic: Severe Current Imbalance - 2A	0 = Normal 1 = In Alarm
BI-11472	Diagnostic: Severe Current Imbalance - 2B	0 = Normal 1 = In Alarm
BI-11473	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm
BI-11474	Diagnostic: Software Error 1002: Call Trane Service	0 = Normal 1 = In Alarm
BI-11475	Diagnostic: Software Error 1003: Call Trane Service	0 = Normal 1 = In Alarm
BI-11476	Diagnostic: Starter Comm Loss: Main Processor - 1A	0 = Normal 1 = In Alarm
BI-11477	Diagnostic: Starter Comm Loss: Main Processor - 1B	0 = Normal 1 = In Alarm
BI-11478	Diagnostic: Starter Comm Loss: Main Processor - 2A	0 = Normal 1 = In Alarm
BI-11479	Diagnostic: Starter Comm Loss: Main Processor - 2B	0 = Normal 1 = In Alarm
BI-11480	Diagnostic: Starter Contactor Interrupt Failure - 1A	0 = Normal 1 = In Alarm
BI-11481	Diagnostic: Starter Contactor Interrupt Failure - 1B	0 = Normal 1 = In Alarm
BI-11482	Diagnostic: Starter Contactor Interrupt Failure - 2A	0 = Normal 1 = In Alarm
BI-11483	Diagnostic: Starter Contactor Interrupt Failure - 2B	0 = Normal 1 = In Alarm
BI-11484	Diagnostic: Starter Did Not Fully Accelerate	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11485	Diagnostic: Starter Did Not Transition - 1A	0 = Normal 1 = In Alarm
BI-11486	Diagnostic: Starter Did Not Transition - 1B	0 = Normal 1 = In Alarm
BI-11487	Diagnostic: Starter Did Not Transition - 2A	0 = Normal 1 = In Alarm
BI-11488	Diagnostic: Starter Did Not Fully Accelerate Compressor 2A	0 = Normal 1 = In Alarm
BI-11489	Diagnostic: Starter Did Not Transition - 2B	0 = Normal 1 = In Alarm
BI-11490	Diagnostic: Starter Dry Run Test - 1A	0 = Normal 1 = In Alarm
BI-11491	Diagnostic: Starter Dry Run Test - 1B	0 = Normal 1 = In Alarm
BI-11492	Diagnostic: Starter Dry Run Test - 2A	0 = Normal 1 = In Alarm
BI-11493	Diagnostic: Starter Dry Run Test - 2B	0 = Normal 1 = In Alarm
BI-11494	Diagnostic: Starter Failed to Arm/Start - 1A	0 = Normal 1 = In Alarm
BI-11495	Diagnostic: Starter Failed to Arm/Start - 1B	0 = Normal 1 = In Alarm
BI-11496	Diagnostic: Starter Failed to Arm/Start - 2A	0 = Normal 1 = In Alarm
BI-11497	Diagnostic: Starter Failed to Arm/Start - 2B	0 = Normal 1 = In Alarm
BI-11498	Diagnostic: Starter Fault Type I - 1A	0 = Normal 1 = In Alarm
BI-11499	Diagnostic: Starter Fault Type I - 1B	0 = Normal 1 = In Alarm
BI-11500	Diagnostic: Starter Fault Type I - 2A	0 = Normal 1 = In Alarm
BI-11501	Diagnostic: Starter Fault Type I - 2B	0 = Normal 1 = In Alarm
BI-11502	Diagnostic: Starter Fault Type II - 1A	0 = Normal 1 = In Alarm
BI-11503	Diagnostic: Starter Fault Type II - 1B	0 = Normal 1 = In Alarm
BI-11504	Diagnostic: Starter Fault Type II - 2A	0 = Normal 1 = In Alarm
BI-11505	Diagnostic: Starter Fault Type II - 2B	0 = Normal 1 = In Alarm
BI-11506	Diagnostic: Starter Fault Type III - 1A	0 = Normal 1 = In Alarm
BI-11507	Diagnostic: Starter Fault Type III - 1B	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11508	Diagnostic: Starter Fault Type III - 2A	0 = Normal 1 = In Alarm
BI-11509	Diagnostic: Starter Fault Type III - 2B	0 = Normal 1 = In Alarm
BI-11510	Diagnostic: Starter Module Memory Error Type 1 - 1A	0 = Normal 1 = In Alarm
BI-11511	Diagnostic: Starter Module Memory Error Type 1 - 1B	0 = Normal 1 = In Alarm
BI-11512	Diagnostic: Starter Module Memory Error Type 1 - 2A	0 = Normal 1 = In Alarm
BI-11513	Diagnostic: Starter Module Memory Error Type 1 - 2B	0 = Normal 1 = In Alarm
BI-11514	Diagnostic: Starter Module Memory Error Type 2 - 1A	0 = Normal 1 = In Alarm
BI-11515	Diagnostic: Starter Module Memory Error Type 2 - 1B	0 = Normal 1 = In Alarm
BI-11516	Diagnostic: Starter Module Memory Error Type 2 - 2A	0 = Normal 1 = In Alarm
BI-11517	Diagnostic: Starter Module Memory Error Type 2 - 2B	0 = Normal 1 = In Alarm
BI-11518	Diagnostic: Starts/Hours Modified 1A	0 = Normal 1 = In Alarm
BI-11519	Diagnostic: Starts/Hours Modified 1B	0 = Normal 1 = In Alarm
BI-11520	Diagnostic: Starts/Hours Modified 2A	0 = Normal 1 = In Alarm
BI-11521	Diagnostic: Starts/Hours Modified 2B	0 = Normal 1 = In Alarm
BI-11522	Diagnostic: Suction Refrigerant Pressure Sensor - 1A	0 = Normal 1 = In Alarm
BI-11523	Diagnostic: Suction Refrigerant Pressure Sensor - 1B	0 = Normal 1 = In Alarm
BI-11524	Diagnostic: Suction Refrigerant Pressure Sensor - 2A	0 = Normal 1 = In Alarm
BI-11525	Diagnostic: Suction Refrigerant Pressure Sensor - 2B	0 = Normal 1 = In Alarm
BI-11526	Diagnostic: Transition Complete Input Opened - 1A	0 = Normal 1 = In Alarm
BI-11527	Diagnostic: Transition Complete Input Opened - 1B	0 = Normal 1 = In Alarm
BI-11528	Diagnostic: Transition Complete Input Opened - 2A	0 = Normal 1 = In Alarm
BI-11529	Diagnostic: Transition Complete Input Opened - 2B	0 = Normal 1 = In Alarm
BI-11530	Diagnostic: Transition Complete Input Shorted - 1A	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Object States
BI-11531	Diagnostic: Transition Complete Input Shorted - 1B	0 = Normal 1 = In Alarm
BI-11532	Diagnostic: Transition Complete Input Shorted - 2A	0 = Normal 1 = In Alarm
BI-11533	Diagnostic: Transition Complete Input Shorted - 2B	0 = Normal 1 = In Alarm
BI-11534	Diagnostic: Under Voltage	0 = Normal 1 = In Alarm
BI-11535	Diagnostic: Unexpected Starter Shutdown - 1A	0 = Normal 1 = In Alarm
BI-11536	Diagnostic: Unexpected Starter Shutdown - 1B	0 = Normal 1 = In Alarm
BI-11537	Diagnostic: Unexpected Starter Shutdown - 2A	0 = Normal 1 = In Alarm
BI-11538	Diagnostic: Unexpected Starter Shutdown - 2B	0 = Normal 1 = In Alarm
BI-11539	Diagnostic: Very Low Evap Rfgr Pressure - 1A	0 = Normal 1 = In Alarm
BI-11540	Diagnostic: Very Low Evap Rfgr Pressure - 1B	0 = Normal 1 = In Alarm
BI-11541	Diagnostic: Very Low Evap Rfgr Pressure - 2A	0 = Normal 1 = In Alarm
BI-11542	Diagnostic: Very Low Evap Rfgr Pressure - 2B	0 = Normal 1 = In Alarm
BI-11543	Diagnostic: Write Command Failure Energy Meter 1	0 = Normal 1 = In Alarm
BI-11544	Diagnostic: Write Command Failure Energy Meter 2	0 = Normal 1 = In Alarm
BI-11545	Comm Loss: Ice Building Status Relay	0 = Normal 1 = In Alarm



Object Identifier	Object Name	Description	Object States	Configuration Dependency
BV-10100	Reset Diagnostic	BAS Diagnostic Reset	0 = Normal 1 = Reset	Standard
BV-10101	Noise Reduction Request BAS	BAS Noise Reduction Command	0 = Normal 1 = Reduce Noise	Low Noise
BV-10102	Circuit 1 Lockout BAS	BAS Circuit 1 Lockout	0 = Normal 1 = Locked Out	Standard
BV-10103	Circuit 2 Lockout BAS	BAS Circuit 2 Lockout	0 = Normal 1 = Locked Out	Standard
BV-10107	Energy Consumption Reset	Energy Consumption Reset	0 = Accumulating 1 = Reset	Power Monitor
BV-10108	Chiller Auto Stop Command BAS	BAS Chiller Auto Stop Command	0 = Stop 1 = Auto	Standard
BV-10109	Free Cooling Auto Stop Command BAS	BAS Free Cooling Auto Stop Command	0 = Stop 1 = Auto	Free Cooling
BV-10110	Free Cooling Compressor Lockout	BAS Free Cooling Compressor Lockout	0 = Normal 1 = Locked Out	Free Cooling
BV-10111	Compressor 1B Lockout BAS	BAS Compressor 1B Lockout	0 = Normal 1 = Locked Out	Standard
BV-10112	Compressor 2B Lockout BAS	BAS Compressor 2B Lockout	0 = Normal 1 = Locked Out	Standard



Object Identifier	Object Name	Description	Object States	Configuration Dependency
MI-10100	Running Mode	Indicates the running state of the chiller	1 = Chiller Off 2 = Chiller In Start Mode 3= Chiller In Run Mode 4= Chiller In Pre-Shutdown Mode 5 = Chiller In Service Mode	Standard
MI-10101	Operating Mode	Indicates the operating mode of the chiller	1 = Cool 2 = Heat 3= Ice Making 4= Free Cooling	Standard
MI-10102	Refrigerant Type	Indicates the chiller refrigerant type	1 = R-11 2 = R-12 3= R-22 4= R-123 5 = R-134a 6 = R-407C 7 = R-410A 8 = R-113 9 = R-114 10 = R-500 11 = R-502 12 = R-404A 13 = R-513A 14 = R-1233zd(E) 15 = R-514A 16 = R-1234ze(E)	Standard
MI-10103	Cooling Type	Indicates the cooling Type of chiller	1 = Water Cooled 2 = Air Cooled	Standard
MI-10104	Manufacture Location	Indicates the location that the chiller was manufactured	1 = Field Applied 2 = La Crosse 3= Pueblo 4= Charnes 5 = Rushville 6 = Macon 7 = Waco 8 = Lexington 9 = Forsyth 10 = Clarksville 11 = Ft. Smith 12 = Penang 13 = Colchester 14 = Curitiba 15 = Taicang 16 = Taiwan 17 = Epinal 18 = Golbey	Standard



Object Identifier	Object Name	Description	Object States	Configuration Dependency
MI-10105	Model Information [GEN2]	Indicates the model information of chiller	1 = CVHF 2 = CVGF 3 = CVHS 4 = RTAE 5 = RTAF 6 = RTHA 7 = RTHB 8 = RTHC 9 = RTHD 10 = RTWE 11 = CTVD 12 = CVR 13 = CVHH 14 = CDHH 15 = VMAX 16 = GVAF 17 = RTWF 18 = RTHF 19 = RTAC 20 = CVHM 21 = RTAG 22 = CGAF 23 = RTXG 24 = GVWF 25 = HDWA 26 = CMAC 27 = IPAK 28 = CXAF 29 = ACSA 30 = RTSF 31 = HSWA 32 = ACRA 33 = RTEG 34 = ACXA 35 = CMAF 36 = ACRB Large 37 = ACRB Small 38 = CVHE 39 = CVHG 40 = CVHL 41 = RTWF XSE 42 = CGWF 43 = CDHG 44 = ACCA 45 = RTWD 46 = RTUD 47 = CXWF 48 = CCUF 49 = RTHG 50 = CGAM 51 = CXAM 52 = CGAX 53 = CXAX 54 = EIC 55 = EIH 56 = RTXG 57 = RTMG 58 = ACRC 59 = HSWB	Standard
MI-10106	Chiller Setpoint Source	Indicates the selected setpoint source for control purpose	1 = BAS 2 = External 3 = Front Panel	Standard

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Object Identifier	Object Name	Description	Object States	Configuration Dependency
MV-10100	Chiller Mode Command BAS	Normally used by the BMS to command the chiller Mode	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard





## 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 Type	Register Value	Byte Order	Invalid Values
Analog	Float, 32-bit	High Word/High Byte First	NaN
Binary	Int, 16-bit, unsigned	High Byte first	0xFFFF
Multi-state	Int, 16-bit, unsigned	High Byte first	0xFFFF

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Register Address	Object Name	Description	Units	Configuration Dependency
30011	Active Chilled Water Setpoint	Indicates the value of the active Chilled Water Setpoint actively being used by the chiller	Temperature	Standard
30013	Active Demand Limit Setpoint	Indicates the demand limit setpoint value actively being used by the chiller when ice building is not installed	Percentage	Ice Building not Installed
30017	Evaporator Entering Water Temperature	Indicates the current temperature of the water entering the evaporator	Temperature	Standard
30019	Evaporator Leaving Water Temperature	Indicates the current temperature of the water leaving the evaporator	Temperature	Standard
30023	Unit Power Consumption	Indicates the measurement of the power being consumed by the Chiller	Power, Electrical	Power Monitor
30025	Outdoor Air Temperature	Indicates the current temperature of the outdoor air	Temperature	Standard
30031	Evaporator Refrigerant Pressure Circuit 1	Indicates the current pressure of the refrigerant in the evaporator on circuit 1	Pressure, Fluidic	Standard
30033	Condenser Refrigerant Pressure Circuit 1	Indicates the current pressure of the refrigerant in the condenser on circuit 1	Pressure, Fluidic	Standard
30035	Differential Refrigerant Pressure Circuit 1	Indicates the pressure difference between the suction and discharge lines on circuit 1	Pressure, Fluidic	Standard
30037	Evaporator Saturated Refrigerant Temperature Circuit 1	Indicates the saturated refrigerant temperature of the evaporator on circuit 1	Temperature	Standard
30039	Condenser Saturated Refrigerant Temperature Circuit 1	Indicates the saturated refrigerant temperature of the condenser on circuit 1	Temperature	Standard
30041	Evaporator Refrigerant Pressure Circuit 2	Indicates the current pressure of the refrigerant in the evaporator on circuit 2	Pressure, Fluidic	Standard
30043	Condenser Refrigerant Pressure Circuit 2	Indicates the current pressure of the refrigerant in the condenser on circuit 2	Pressure, Fluidic	Standard
30045	Differential Refrigerant Pressure Circuit 2	Indicates the pressure difference between the suction and discharge lines on circuit 2	Pressure, Fluidic	Standard
30047	Evaporator Saturated Refrigerant Temperature Circuit 2	Indicates the saturated refrigerant temperature of the evaporator on circuit 2	Temperature	Standard
30049	Condenser Saturated Refrigerant Temperature Circuit 2	Indicates the saturated refrigerant temperature of the condenser on circuit 2	Temperature	Standard
30051	Refrigerant Discharge Temperature - Compressor 1A	Indicates the current temperature of the refrigerant being discharged from Compressor 1A	Temperature	Standard
30053	High Side Oil Pressure - Compressor 1A	Indicates the pressure of the oil on the high pressure side of Compressor 1A	Pressure, Fluidic	Standard
30055	Refrigerant Discharge Temperature - Compressor 2A	Indicates the current temperature of the refrigerant being discharged from Compressor 2A	Temperature	Standard
30057	High Side Oil Pressure - Compressor 2A	Indicates the pressure of the oil on the high pressure side of Compressor 2A	Pressure, Fluidic	Standard
30059	Air Flow Percentage Circuit 1	Indicates the approximate air flow percentage of Circuit 1	Percentage	Standard
30061	Air Flow Percentage Circuit 2	Indicates the approximate air flow percentage of Circuit 2	Percentage	Standard
30063	Drive Motor Average Voltage Circuit 1	Indicates the average voltage line to line at AFD for Compressor 1A	Voltage	PF755 TR200
30065	Drive Motor Current U Circuit 1	Indicates the measurement of Line 1 current at AFD for Compressor 1A in terms of Amps	Current	PF755 TR200

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Register Address	Object Name	Description	Units	Configuration Dependency
30067	Drive Motor Current V Circuit 1	Indicates the measurement of Line 2 current at AFD for Compressor 1A in terms of Amps	Current	PF755 TR200
30069	Drive Motor Current W Circuit 1	Indicates the measurement of Line 3 current at AFD for Compressor 1A in terms of Amps	Current	PF755 TR200
30071	Drive Motor Current U RLA Circuit 1	Indicates the measurement of Line 1 current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
30073	Drive Motor Current V RLA Circuit 1	Indicates the measurement of Line 2 current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
30075	Drive Motor Current W RLA Circuit 1	Indicates the measurement of Line 3 current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
30077	Drive Motor Average Current RLA Circuit 1	Indicates the average current at AFD for Compressor 1A in terms of % RLA	Percentage	PF755 TR200
30079	Drive DC Bus Voltage Circuit 1	Indicates the voltage of the DC Bus from the AFD for Compressor 1A	Voltage	PF755 TR200
30081	Drive Output Power Circuit 1	Indicates the power output from the AFD for Compressor 1A	Power, Electrical	PF755 TR200
30083	AFD Transistor Temperature Circuit 1	Indicates the temperature of the transistor for the AFD for Compressor 1A	Temperature	PF755 TR200
30085	Motor Winding Temperature 1 Circuit 1	Indicates the first temperature sensor of the windings on motor 1A	Temperature	Standard
30087	Motor Winding Temperature 2 Circuit 1	Indicates the second temperature sensor of the windings on motor 1A	Temperature	Standard
30089	Drive Motor Average Voltage Circuit 2	Indicates the average voltage line to line at AFD for Compressor 2A	Voltage	PF755 TR200
30091	Drive Motor Current U Circuit 2	Indicates the measurement of Line 1 current at AFD for Compressor 2A in terms of Amps	Current	PF755 TR200
30093	Drive Motor Current V Circuit 2	Indicates the measurement of V line current at AFD for Compressor 2A in terms of Amps	Current	PF755 TR200
30095	Drive Motor Current W Circuit 2	Indicates the measurement of W line current at AFD for Compressor 2A in terms of Amps	Current	PF755 TR200
30097	Drive Motor Current U RLA Circuit 2	Indicates the measurement of Line 1 current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
30099	Drive Motor Current V RLA Circuit 2	Indicates the measurement of Line 2 current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
30101	Drive Motor Current W RLA Circuit 2	Indicates the measurement of Line 3 current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
30103	Drive Motor Average Current RLA Circuit 2	Indicates the average current at AFD for Compressor 2A in terms of % RLA	Percentage	PF755 TR200
30105	Drive DC Bus Voltage Circuit 2	Indicates the voltage of the DC Bus from the AFD for Compressor 2A	Voltage	PF755 TR200
30107	Drive Output Power Circuit 2	Indicates the power output from the AFD for Compressor 2A	Power, Electrical	PF755 TR200
30109	AFD Transistor Temperature Circuit 2	Indicates the temperature of the transistor for the AFD for Compressor 2A	Temperature	PF755
30111	Motor Winding Temperature 1 Circuit 2	Indicates the first temperature sensor of the windings on motor 2A	Temperature	Standard



Register Address	Object Name	Description	Units	Configuration Dependency
30113	Motor Winding Temperature 2 Circuit 2	Indicates the second temperature sensor of the windings on motor 2A	Temperature	Standard
30115	Sub Cooled Liquid Temperature Circuit 1	Indicates the sub cooled liquid temperature of circuit 1	Temperature	Standard
30117	Sub Cooled Liquid Temperature Circuit 2	Indicates the sub cooled liquid temperature of circuit 2	Temperature	Standard
30119	Evaporator Differential Water Pressure	Indicates the differential water pressure of the evaporator	Temperature	Variable Primary Flow
30121	System Chilled Water Differential Pressure	Indicates the differential water pressure of the chilled water system	Pressure, Fluidic	Variable Primary Flow
30127	Phase AB Voltage - Compressor 1B	Indicates the measurement of voltage in Phase AB for Compressor 1B	Voltage	Line Voltage Sensing
30129	Line 1 Current - Compressor 1B	Indicates the measurement of Line 1 current for Compressor 1B in terms of Amps	Current	Standard
30131	Line 2 Current - Compressor 1B	Indicates the measurement of Line 2 current for Compressor 1B in terms of Amps	Current	Standard
30133	Line 3 Current - Compressor 1B	Indicates the measurement of Line 3 current for Compressor 1B in terms of Amps	Current	Standard
30135	Line 1 Current RLA - Compressor 1B	Indicates the measurement of Line 1 current for Compressor 1B in terms of % RLA	Percentage	Standard
30137	Line 2 Current RLA - Compressor 1B	Indicates the measurement of Line 2 current for Compressor 1B in terms of % RLA	Percentage	Standard
30139	Line 3 Current RLA - Compressor 1B	Indicates the measurement of Line 3 current for Compressor 1B in terms of % RLA	Percentage	Standard
30141	Phase AB Voltage - Compressor 2B	Indicates the measurement of voltage in Phase AB for Compressor 2B	Voltage	Line Voltage Sensing
30143	Line 1 Current - Compressor 2B	Indicates the measurement of Line 1 current for Compressor 2B in terms of Amps	Current	Standard
30145	Line 2 Current - Compressor 2B	Indicates the measurement of Line 2 current for Compressor 2B in terms of Amps	Current	Standard
30147	Line 3 Current - Compressor 2B	Indicates the measurement of Line 3 current for Compressor 2B in terms of Amps	Current	Standard
30149	Line 1 Current RLA - Compressor 2B	Indicates the measurement of Line 1 current for Compressor 2B in terms of % RLA	Percentage	Standard
30151	Line 2 Current RLA - Compressor 2B	Indicates the measurement of Line 2 current for Compressor 2B in terms of % RLA	Percentage	Standard
30153	Line 3 Current RLA - Compressor 2B	Indicates the measurement of Line 3 current for Compressor 2B in terms of % RLA	Percentage	Standard
30157	Refrigerant Discharge Temperature - Compressor 1B	Indicates the current temperature of the refrigerant being discharged from Compressor 1B	Temperature	Standard
30159	High Side Oil Pressure - Compressor 1B	Indicates the pressure of the oil on the high pressure side of Compressor 1B	Pressure, Fluidic	Standard
30161	Refrigerant Discharge Temperature - Compressor 2B	Indicates the current temperature of the refrigerant being discharged from Compressor 2B	Temperature	Standard
30163	High Side Oil Pressure - Compressor 2B	Indicates the pressure of the oil on the high pressure side of Compressor 2B	Pressure, Fluidic	Standard
30165	Number of Circuits	Indicates the number of refrigeration circuits in the chiller	No Units	Standard
30167	Number of Compressors Circuit 1	Indicates the number of compressors on circuit 1 of the chiller	No Units	Standard

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Register Address	Object Name	Description	Units	Configuration Dependency
30169	Number of Compressors Circuit 2	Indicates the number of compressors on circuit 2 of the chiller	No Units	Standard
30171	Actual Running Capacity	Indicates the measurement of the power being consumed by the Chiller	Percentage	Standard
30173	Free Cooling Capacity Status	Indicates the % capacity of the free cooling being used	Percentage	Free Cooling
30175	Free Cooling Entering Water Temperature Active	Indicates the entering water temperature of the free cooling circuit	Temperature	Free Cooling
30181	Evaporator Differential Water Pressure Setpoint Status	Indicates the setpoint status of the evaporator differential water pressure	Pressure, Fluidic	Variable Primary Flow
30183	Energy Consumption Lifetime	Indicates the total energy consumption of the chiller (for the lifetime of the chiller)	Energy, Electrical	Power Monitor
30185	Energy Consumption	Indicates the total energy consumption of the chiller (since last accumulation reset)	Energy, Electrical	Power Monitor
30187	Starts - Compressor 1A	Indicates the number of starts of Compressor 1A	No Units	Standard
30189	Run Time - Compressor 1A	Indicates the run time of Compressor 1A in seconds	No Units	Standard
30191	Starts - Compressor 2A	Indicates the number of starts of Compressor 2A	No Units	Standard
30193	Run Time - Compressor 2A	Indicates the run time of Compressor 2A in seconds	No Units	Standard
30195	Starts - Compressor 1B	Indicates the number of starts of Compressor 1B	No Units	Standard
30197	Run Time - Compressor 1B	Indicates the run time of Compressor 1B in seconds	No Units	Standard
30199	Starts - Compressor 2B	Indicates the number of starts of Compressor 2B	No Units	Standard
30201	Run Time - Compressor 2B	Indicates the run time of Compressor 2B in seconds	No Units	Standard
30203	Chiller Design Capacity	Indicates the design capacity of chiller	Power, Cooling	Standard
30207	Chilled Water Setpoint Status	Indicates the chilled water setpoint temperature	Temperature	Standard
30209	Demand Limit Setpoint Status	Indicates the % capacity of the demand limit being used	Percentage	Ice Building
30211	Unit Source ID	Indicates the last diagnostic of the chiller	No Units	Standard
30213	Drive Input Voltage Calculated 1A	Indicates the input voltage at the AFD for Compressor 1A	Voltage	PF755 TR200
30215	Drive Input Voltage Calculated 2A	Indicates the input voltage at the AFD for Compressor 2A	Voltage	PF755 TR200
30217	Active Cool/Heat Setpoint Temperature	Indicates the value of the active Chilled Water Setpoint actively being used by the chiller	Temperature	Standard
30219	Phase BC Voltage - Compressor 1B	Indicates the measurement of voltage in Phase BC for Compressor 1B	Voltage	Line Voltage Sensing
30221	Phase CA Voltage - Compressor 1B	Indicates the measurement of voltage in Phase CA for Compressor 1B	Voltage	Line Voltage Sensing
30223	Phase BC Voltage - Compressor 2B	Indicates the measurement of voltage in Phase BC for Compressor 2B	Voltage	Line Voltage Sensing
30225	Phase CA Voltage - Compressor 2B	Indicates the measurement of voltage in Phase CA for Compressor 2B	Voltage	Line Voltage Sensing
30227	Average Line Current Circuit 1	Indicates the average current, reported in Circuit 1	Current	Two Energy Meters Installed
30229	Average Line Current Circuit 2	Indicates the average current, reported in Circuit 2	Current	Two Energy Meters Installed



Register Address	Object Name	Description	Units	Configuration Dependency
30231	Average Line Voltage Circuit 1	Indicates the average voltage, line-to-line reported in Circuit 1	Voltage	Two Energy Meters Installed
30233	Average Line Voltage Circuit 2	Indicates the average voltage, line-to-line reported in Circuit 2	Voltage	Two Energy Meters Installed
30235	Line Current L1 Circuit 1	Indicates the current for line/leg 1 of Circuit 1	Current	Two Energy Meters Installed
30237	Line Current L2 Circuit 1	Indicates the current for line/leg 2 of Circuit 1	Current	Two Energy Meters Installed
30239	Line Current L3 Circuit 1	Indicates the current for line/leg 3 of Circuit 1	Current	Two Energy Meters Installed
30241	Line Current L1 Circuit 2	Indicates the current for line/leg 1 of Circuit 2	Current	Two Energy Meters Installed
30243	Line Current L2 Circuit 2	Indicates the current for line/leg 2 of Circuit 2	Current	Two Energy Meters Installed
30245	Line Current L3 Circuit 2	Indicates the current for line/leg 3 of Circuit 2	Current	Two Energy Meters Installed
30247	Voltage L1-L2 Circuit 1	Indicates the voltage between line/leg L1 and L2 of Circuit 1	Voltage	Two Energy Meters Installed
30249	Voltage L2-L3 Circuit 1	Indicates the voltage between line/leg L2 and L3 of Circuit 1	Voltage	Two Energy Meters Installed
30251	Voltage L1-L3 Circuit 1	Indicates the voltage between line/leg L1 and L3 of Circuit 1	Voltage	Two Energy Meters Installed
30253	Voltage L1-L2 Circuit 2	Indicates the voltage between line/leg L1 and L2 of Circuit 2	Voltage	Two Energy Meters Installed
30255	Voltage L2-L1 Circuit 2	Indicates the voltage between line/leg L2 and L3 of Circuit 2	Voltage	Two Energy Meters Installed
30257	Voltage L1-L3 Circuit 2	Indicates the voltage between line/leg L1 and L3 of Circuit 2	Voltage	Two Energy Meters Installed
30259	Total Real Power	Indicates the total real power reported	Power, Electrical	Power Monitor
30261	Line Frequency Circuit 1	Indicates the estimated input frequency for Circuit 1	No Units	Two Energy Meters Installed
30263	Line Frequency Circuit 2	Indicates the estimated input frequency for Circuit 2	No Units	Two Energy Meters Installed
30265	Power Factor Circuit 1	Indicates the reported power factor for Circuit 1	No Units	Two Energy Meters Installed
30267	Power Factor Circuit 2	Indicates the reported power factor for Circuit 2	No Units	Two Energy Meters Installed
30269	Power Demand Circuit 1	Indicates the reported power demand for Circuit 1	Power, Electrical	Two Energy Meters Installed
30271	Power Demand Circuit 2	Indicates the reported power demand for Circuit 2	Power, Electrical	Two Energy Meters Installed
30273	Evaporator Approach Temperature Circuit 1	Indicates the evaporator approach temperature for circuit 1	Temperature, Delta	Standard
30275	Evaporator Approach Temperature Circuit 2	Indicates the evaporator approach temperature for circuit 2	Temperature, Delta	Standard

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Register Address	Object Name	Description	Units	Configuration Dependency
30276	Discharge Superheat Compressor 1A	Indicates the discharge superheat for compressor 1A	Temperature, Delta	Standard
30277	Discharge Superheat Compressor 1B	Indicates the discharge superheat for compressor 1B	Temperature, Delta	Standard
30278	Discharge Superheat Compressor 2A	Indicates the discharge superheat for compressor 2A	Temperature, Delta	Standard
30279	Discharge Superheat Compressor 2B	Indicates the discharge superheat for compressor 2B	Temperature, Delta	Standard
30285	Evaporator Water Flow Rate	Indicates the approximate evaporator water flow rate	Flow, Fluidic	Evap Water Flow Measurement
30287	Evaporator Differential Water Pressure	Indicates the evaporator differential water pressure	Pressure, Fluidic	Evap Water Flow Measurement Differential Pressure or Dual Pressure Sensors
30289	Entering Evaporator Water Pressure	Indicates the evaporator entering water pressure	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors
30291	Leaving Evaporator Water Pressure	Indicates the evaporator leaving water pressure	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors
30293	Power Factor	Indicates the unit power factor	No Units	One Energy Meter Installed
30295	Current L1	Indicates the current for line/leg 1	Current	One Energy Meter Installed
30297	Current L2	Indicates the current for line/leg 2	Current	One Energy Meter Installed
30299	Current L3	Indicates the current for line/leg 3	Current	One Energy Meter Installed
30301	Average Current	Indicates the average current reported	Current	One Energy Meter Installed
30303	Voltage L1-L2	Indicates the voltage between line/leg L1 and L2	Voltage	One Energy Meter Installed
30305	Voltage L2-L3	Indicates the voltage between line/leg L2 and L3	Voltage	One Energy Meter Installed
30307	Voltage L1-L3	Indicates the voltage between line/leg L1 and L3	Voltage	One Energy Meter Installed
30311	Average Voltage L-L	Indicates the average voltage, line-to-line	Voltage	One Energy Meter Installed
30313	Line Frequency	Indicates the chiller line frequency	No Units	One Energy Meter Installed
30315	AFD Coolant Supply Temperature Compressor	Indicates the AFD cooling supply temperature for circuit 1	Temperature	PF755
30317	AFD Coolant Supply Temperature Compressor	Indicates the AFD cooling supply temperature for circuit 2	Temperature	PF755
30319	Evaporator Water Pump Speed Command	Indicates the evaporator water pump speed command	Percentage	Evap Pump Control - Variable Speed
30321	Evaporator Water Pump Speed Feedback	Indicates the evaporator water pump speed Feedback	Percentage	Evap Pump Control - Variable Speed
30323	Evaporator Water Pump Speed Setpoint Active	Indicatest the active evaporator water pump speed setpoint	Percentage	Evap Pump Variable Speed Type - Direct Pump Speed Control





Register Address	Object Name	Description	Units	Configuration Dependency
30325	Evaporator Water Pump Flow Rate Setpoint	Indicates the active evaporator water pump flow rate setpoint	Flow, Fluidic	Evap Pump Variable Speed Type - Water Flow Control
30327	Free Cooling Dedicated Fans Airflow	Indicates the free cooling dedicated fan air flow	Percentage	Free Cooling Dedicated Fans
30329	Drive Heat Sink Temperature Compressor 1A	Indicates the heatsink temperature for the circuit 1A AFD	Temperature	TR200
30331	Drive Heat Sink Temperature Compressor 2A	Indicates the heatsink temperature for the circuit 2A AFD	Temperature	TR200
30333	Compressor 1A Speed Status	Indicates the percent speed status for compressor 1A	Percentage	PF755 TR200
30335	Compressor 2A Speed Status	Indicates the percent speed status for compressor 2A	Percentage	PF755 TR200
30337	Calculated Chiller Capacity	Indicates the calculated chiller capacity	Power, Cooling	Standard
30339	Free Cooling Target Offset	Indicates the free cooling target offset	Temperature, Delta	Free Cooling
30341	Free Cooling Valve Position Status	Indicates the free cooling valve percent open position	Percentage	Free Cooling
30343	Active Demand Limit Setpoint	Indicates the demand limit setpoint value actively being used by the chiller when ice building is installed	Percentage	Ice Building
30345	Evaporator Refrigerant Absolute Pressure Circuit 1	Indicates the current absolute pressure of the refrigerant in the evaporator on circuit 1	Pressure, Fluidic	Standard
30347	Condenser Refrigerant Absolute Pressure Circuit 1	Indicates the current absolute pressure of the refrigerant in the condenser on circuit 1	Pressure, Fluidic	Standard
30349	Evaporator Refrigerant Absolute Pressure Circuit 2	Indicates the current absolute pressure of the refrigerant in the evaporator on circuit 2	Pressure, Fluidic	Standard
30351	Condenser Refrigerant Absolute Pressure Circuit 2	Indicates the current absolute pressure of the refrigerant in the condenser on circuit 2	Pressure, Fluidic	Standard
30353	High Side Oil Absolute Pressure - Compressor 1A	Indicates the absolute pressure of the oil on the high pressure side of Compressor 1A	Pressure, Fluidic	Standard
30355	High Side Oil Absolute Pressure - Compressor 2A	Indicates the absolute pressure of the oil on the high pressure side of Compressor 2A	Pressure, Fluidic	Standard
30357	High Side Oil Absolute Pressure - Compressor 1B	Indicates the absolute pressure of the oil on the high pressure side of Compressor 1B	Pressure, Fluidic	Standard
30359	High Side Oil Absolute Pressure - Compressor 2B	Indicates the absolute pressure of the oil on the high pressure side of Compressor 2B	Pressure, Fluidic	Standard
30361	Entering Evaporator Water Absolute Pressure	Indicates the absolute pressure of the entering evaporator water	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors
30363	Leaving Evaporator Water Absolute Pressure	Indicates the absolute pressure of the leaving evaporator water	Pressure, Fluidic	Evap Water Flow Measurement Dual Pressure Sensors

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Register Address	Object Name	Description	Units	Configuration Dependency
40011	Chilled Water Setpoint	The value is normally provided by the BAS to send the Chilled Water Setpoint. The value is subject to arbitration logic in the controller, in which case it may or may not be used for control purposes	Temperature	Standard
40013	Demand Limit Setpoint	The value is normally provided by the BAS to send the Demand Limit Setpoint. The value is subject to arbitration logic in the controller, in which case it may or may not be used for control purposes	Percentage	Standard
40015	Evaporator Water Pump Flow Rate Setpoint BAS	The value is normally provided by the BAS to send the evaporator water flow rate setpoint	Flow, Fluidic	Evap Variable Speed Pump Control - Water Flow Control
40017	Evaporator Water Pump Speed Setpoint BAS	The value is normally provided by the BAS to send the evaporator water pump percent speed setpoint	Percentage	Evap Variable Speed Pump Control - Direct Pump Speed Control

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Register Address	Object Name	Description	Object States	Configuration Dependency
33011	Run Enable	Indicates that chiller is available to run or is currently running	0 = Run Not Enabled 1 = Run Enabled	Standard
33012	Local Setpoint Control	Indicates the which setpoint is used for control purposes, Remote (BAS) or Local	0 = Remote Control 1 = Local Control	Standard
33013	Limit Mode Relay Status	Indicates the status of the chiller limit relay	0 = Off 1 = On	Standard
33014	Chiller Running State	Indicates whether the chiller is on (currently doing either cooling) or is considered off (not currently doing cooling)	0 = Off 1 = On	Standard
33015	Maximum Capacity	Indicates the status of the maximum capacity relay	0 = Off 1 = On	Standard
33017	Manual Override Exists	Indicated a manual override is present	0 = Off 1 = On	Standard
33018	Compressor 1A Status	Indicates running state of Compressor 1A	0 = Off 1 = Running	Standard
33019	Compressor 2A Status	Indicates running state of Compressor 2A	0 = Off 1 = Running	Standard
33020	Emergency Stop	Indicates the status of the emergency stop function of the chiller	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
33021	Evaporator Water Pump Request	Indicates a request from the chiller to turn on the Evaporator Water Pump	0 = Off 1 = On	Standard
33022	Evaporator Water Flow Status	Indicates the flow of water through evaporator	0 = No Flow 1 = Flow	Standard
33023	Compressor 1B Status	Indicates running state of Compressor 1B	0 = Off 1 = Running	Standard
33024	Compressor 2B Status	Indicates running state of Compressor 2B	0 = Off 1 = Running	Standard
33025	Free Cooling Active	Indicated the free cooling mode is active	0 = Inactive 1 = Active	Free Cooling
33027	Diagnostic Present	Indicates whether diagnostic present	0 = Normal 1 = In Alarm	Standard
33028	Diagnostic Shutdown Present	Indicates chiller is shut down due to diagnostics	0 = Normal 1 = In Alarm	Standard
33029	Diagnostic: Manual Reset Required	Indicates when a diagnostic exists that requires manual reset	0 = Normal 1 = In Alarm	Standard
33030	Diagnostic: Local Manual Reset Required	Indicates when a diagnostic exists that requires manual reset [Local only]	0 = Normal 1 = In Alarm	Standard
33031	Diagnostic Present: Information	Indicates whether diagnostic present with Information Category	0 = Normal 1 = In Alarm	Standard
33032	Diagnostic Present: Advisory	Indicates whether diagnostic present with Warning Category	0 = Normal 1 = In Alarm	Standard
33033	Diagnostic Present: Critical	Indicates whether diagnostic present with Critical Category	0 = Normal 1 = In Alarm	Standard



Register Address	Object Name	Description	Object States	Configuration Dependency
33034	Diagnostic Present: Service Required	Indicates whether diagnostic present with Service Required Category	0 = Normal 1 = In Alarm	Standard
33035	External Auto Stop Input Status	Indicates the status of the externally-wired auto/stop input	0 = Stop 1 = Auto	Standard
33036	Front Panel Auto Stop	Indicates the auto/stop status of the Front Panel	0 = Stop 1 = Auto	Standard
33037	Noise Reduction Request Active	Indicates whether Noise Reduction active	0 = Off 1 = On	Low Noise
33038	Circuit 1 Lockout Front Panel	Indicates the lockout state of Circuit 1 Compressor from Front Panel	0 = Normal 1 = Locked Out	Standard
33039	Circuit 2 Lockout Front Panel	Indicates the lockout state of Circuit 2 Compressor from Front Panel	0 = Normal 1 = Locked Out	Standard
33040	Circuit 1 Lockout External	Indicates the lockout state of Circuit 1 Compressor from External	0 = Normal 1 = Locked Out	Standard
33041	Circuit 2 Lockout External	Indicates the lockout state of Circuit 2 Compressor from External	0 = Normal 1 = Locked Out	Standard
33042	Circuit 1 Lockout Active	Indicates the lockout state of Circuit 1	0 = Normal 1 = Locked Out	Standard
33043	Circuit 2 Lockout Active	Indicates the lockout state of Circuit 2	0 = Normal 1 = Locked Out	Standard
33044	Circuit 1 Available	Indicates if circuit 1 is available to start	0 = Unavailable 1 = Available	Standard
33045	Circuit 2 Available	Indicates if circuit 2 is available to start	0 = Unavailable 1 = Available	Standard
33046	Oil Sensor Circuit 1	Indicates the status of the circuit 1 oil sensor	0 = Dry 1 = Wet	Standard
33047	Oil Sensor Circuit 2	Indicates the status of the circuit 2 oil sensor	0 = Dry 1 = Wet	Standard
33048	Evaporator Water Pump 1 Inverter Running Status	Indicates the running status of the evaporator water pump 1 inverter	0 = Off 1 = On	Evap Pump Control Variable Speed
33049	Evaporator Water Pump 1 Fault Status	Indicates the fault status of the evaporator water pump 1 inverter	0 = Fault 1 = No Fault	Evap Pump Control Variable Speed
33050	Compressor 1B Lockout Active	Indicates the lockout state of Compressor 1B	0 = Normal 1 = Locked Out	Standard
33051	Compressor 2B Lockout Active	Indicates the lockout state of Compressor 2B	0 = Normal 1 = Locked Out	Standard
33052	Free Cooling Front Panel Command Status	Indicates the status of the front panel free cooling command	0 = Off 1 = Auto	Free Cooling

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Modbus Register	Object Name	Object States
34001	Diagnostic: AFD 1A Bus Over Voltage	0 = Normal 1 = In Alarm
34002	Diagnostic: AFD 1A Bus Under Voltage	0 = Normal 1 = In Alarm
34003	Diagnostic: AFD 1A Comm Loss: Main Processor	0 = Normal 1 = In Alarm
34004	Diagnostic: AFD 1A Customized Protection Fault	0 = Normal 1 = In Alarm
34005	Diagnostic: AFD 1A Gate Kill Active	0 = Normal 1 = In Alarm
34006	Diagnostic: AFD 1A General Failure (PF755)	0 = Normal 1 = In Alarm
34007	Diagnostic: AFD 1A General Failure (TR200)	0 = Normal 1 = In Alarm
34008	Diagnostic: AFD 1A Ground Fault	0 = Normal 1 = In Alarm
34009	Diagnostic: AFD 1A Input Phase Loss	0 = Normal 1 = In Alarm
34010	Diagnostic: AFD 1A Input Transf or Filter Over Temp	0 = Normal 1 = In Alarm
34011	Diagnostic: AFD 1A Loss Of Motor Control	0 = Normal 1 = In Alarm
34012	Diagnostic: AFD 1A Low Rotor Flux Feedback	0 = Normal 1 = In Alarm
34013	Diagnostic: AFD 1A Motor Current Overload	0 = Normal 1 = In Alarm
34014	Diagnostic: AFD 1A Motor Fault	0 = Normal 1 = In Alarm
34015	Diagnostic: AFD 1A Motor Shorted	0 = Normal 1 = In Alarm
34016	Diagnostic: AFD 1A Over Temperature	0 = Normal 1 = In Alarm
34017	Diagnostic: AFD 1A Precharge Fault	0 = Normal 1 = In Alarm
34018	Diagnostic: AFD 2A Bus Over Voltage	0 = Normal 1 = In Alarm
34019	Diagnostic: AFD 2A Bus Under Voltage	0 = Normal 1 = In Alarm
34020	Diagnostic: AFD 2A Comm Loss: Main Processor	0 = Normal 1 = In Alarm
34021	Diagnostic: AFD 2A Customized Protection Fault	0 = Normal 1 = In Alarm
34022	Diagnostic: AFD 2A Gate Kill Active	0 = Normal 1 = In Alarm
34023	Diagnostic: AFD 2A General Failure (PF755)	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34024	Diagnostic: AFD 2A General Failure (TR200)	0 = Normal 1 = In Alarm
34025	Diagnostic: AFD 2A Ground Fault	0 = Normal 1 = In Alarm
34026	Diagnostic: AFD 2A Input Phase Loss	0 = Normal 1 = In Alarm
34027	Diagnostic: AFD 2A Input Transf or Filter Over Temp	0 = Normal 1 = In Alarm
34028	Diagnostic: AFD 2A Loss Of Motor Control	0 = Normal 1 = In Alarm
34029	Diagnostic: AFD 2A Low Rotor Flux Feedback	0 = Normal 1 = In Alarm
34030	Diagnostic: AFD 2A Motor Current Overload	0 = Normal 1 = In Alarm
34031	Diagnostic: AFD 2A Motor Fault	0 = Normal 1 = In Alarm
34032	Diagnostic: AFD 2A Motor Shorted	0 = Normal 1 = In Alarm
34033	Diagnostic: AFD 2A Over Temperature	0 = Normal 1 = In Alarm
34034	Diagnostic: AFD 2A Precharge Fault	0 = Normal 1 = In Alarm
34035	Diagnostic: AFD Bus Over Voltage - 1A	0 = Normal 1 = In Alarm
34036	Diagnostic: AFD Bus Over Voltage - 2A	0 = Normal 1 = In Alarm
34037	Diagnostic: AFD Bus Under Voltage - 1A	0 = Normal 1 = In Alarm
34038	Diagnostic: AFD Bus Under Voltage - 2A	0 = Normal 1 = In Alarm
34039	Diagnostic: AFD Comm Loss – 1A	0 = Normal 1 = In Alarm
34040	Diagnostic: AFD Comm Loss – 2A	0 = Normal 1 = In Alarm
34041	Diagnostic: AFD Comm Loss: Main Processor - 1A	0 = Normal 1 = In Alarm
34042	Diagnostic: AFD Comm Loss: Main Processor - 2A	0 = Normal 1 = In Alarm
34043	Diagnostic: AFD Failure to Arm or Start - 1A	0 = Normal 1 = In Alarm
34044	Diagnostic: AFD Failure to Arm or Start - 2A	0 = Normal 1 = In Alarm
34045	Diagnostic: AFD Fault Mains - 1A	0 = Normal 1 = In Alarm
34046	Diagnostic: AFD Fault Mains - 2A	0 = Normal 1 = In Alarm



Modbus Register	Object Name	Object States
34047	Diagnostic: AFD General Fault - 1A	0 = Normal 1 = In Alarm
34048	Diagnostic: AFD General Fault - 2A	0 = Normal 1 = In Alarm
34049	Diagnostic: AFD Ground Fault - 1A	0 = Normal 1 = In Alarm
34050	Diagnostic: AFD Ground Fault - 2A	0 = Normal 1 = In Alarm
34051	Diagnostic: AFD Harmonic Filter Over Temperature - 1A	0 = Normal 1 = In Alarm
34052	Diagnostic: AFD Harmonic Filter Over Temperature - 2A	0 = Normal 1 = In Alarm
34053	Diagnostic: AFD High Pressure Cutout - 1A	0 = Normal 1 = In Alarm
34054	Diagnostic: AFD High Pressure Cutout - 2A	0 = Normal 1 = In Alarm
34055	Diagnostic: AFD High Torque - 1A	0 = Normal 1 = In Alarm
34056	Diagnostic: AFD High Torque - 2A	0 = Normal 1 = In Alarm
34057	Diagnostic: AFD Initialized - 1A	0 = Normal 1 = In Alarm
34058	Diagnostic: AFD Initialized - 2A	0 = Normal 1 = In Alarm
34059	Diagnostic: AFD Internal Fault - 1A	0 = Normal 1 = In Alarm
34060	Diagnostic: AFD Internal Fault - 2A	0 = Normal 1 = In Alarm
34061	Diagnostic: AFD Interrupt Failure - 1A	0 = Normal 1 = In Alarm
34062	Diagnostic: AFD Interrupt Failure - 1B	0 = Normal 1 = In Alarm
34063	Diagnostic: AFD Interrupt Failure - 2A	0 = Normal 1 = In Alarm
34064	Diagnostic: AFD Interrupt Failure - 2B	0 = Normal 1 = In Alarm
34065	Diagnostic: AFD Inverter Heatsink Over Temperature - 1A	0 = Normal 1 = In Alarm
34066	Diagnostic: AFD Inverter Heatsink Over Temperature - 2A	0 = Normal 1 = In Alarm
34067	Diagnostic: AFD Locked Rotor - 1A	0 = Normal 1 = In Alarm
34068	Diagnostic: AFD Locked Rotor - 2A	0 = Normal 1 = In Alarm
34069	Diagnostic: AFD Mains Phase Loss - 1A	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34070	Diagnostic: AFD Mains Phase Loss - 2A	0 = Normal 1 = In Alarm
34071	Diagnostic: AFD Missing Motor - 1A	0 = Normal 1 = In Alarm
34072	Diagnostic: AFD Missing Motor - 2A	0 = Normal 1 = In Alarm
34074	Diagnostic: AFD Motor Current Overload - 1A (TR200)	0 = Normal 1 = In Alarm
34075	Diagnostic: AFD Motor Current Overload - 1B	0 = Normal 1 = In Alarm
34077	Diagnostic: AFD Motor Current Overload - 2A (TR200)	0 = Normal 1 = In Alarm
34078	Diagnostic: AFD Motor Current Overload - 2B	0 = Normal 1 = In Alarm
34079	Diagnostic: AFD Motor Fault - 1A	0 = Normal 1 = In Alarm
34080	Diagnostic: AFD Motor Fault - 2A	0 = Normal 1 = In Alarm
34081	Diagnostic: AFD New Spare Parts - 1A	0 = Normal 1 = In Alarm
34082	Diagnostic: AFD New Spare Parts - 2A	0 = Normal 1 = In Alarm
34083	Diagnostic: AFD Option Configuration Change - 1A	0 = Normal 1 = In Alarm
34084	Diagnostic: AFD Option Configuration Change - 2A	0 = Normal 1 = In Alarm
34085	Diagnostic: AFD Output Phase U Loss - 1A	0 = Normal 1 = In Alarm
34086	Diagnostic: AFD Output Phase U Loss - 2A	0 = Normal 1 = In Alarm
34087	Diagnostic: AFD Output Phase V Loss - 1A	0 = Normal 1 = In Alarm
34088	Diagnostic: AFD Output Phase V Loss - 2A	0 = Normal 1 = In Alarm
34089	Diagnostic: AFD Output Phase W Loss - 1A	0 = Normal 1 = In Alarm
34090	Diagnostic: AFD Output Phase W Loss - 2A	0 = Normal 1 = In Alarm
34091	Diagnostic: AFD Over Temperature - 1A	0 = Normal 1 = In Alarm
34092	Diagnostic: AFD Over Temperature - 2A	0 = Normal 1 = In Alarm
34093	Diagnostic: AFD Short Circuit - 1A	0 = Normal 1 = In Alarm
34094	Diagnostic: AFD Short Circuit - 2A	0 = Normal 1 = In Alarm



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34095	Diagnostic: AFD Unexpected Shutdown - 1A	0 = Normal 1 = In Alarm
34096	Diagnostic: AFD Unexpected Shutdown - 2A	0 = Normal 1 = In Alarm
34097	Diagnostic: Check Clock	0 = Normal 1 = In Alarm
34098	Diagnostic: Chiller Service Recommended	0 = Normal 1 = In Alarm
34099	Comm Loss: %RLA Indication Output(Vdc)	0 = Normal 1 = In Alarm
34100	Comm Loss: AFD Fault Input 1A	0 = Normal 1 = In Alarm
34101	Comm Loss: AFD Fault Input 1B	0 = Normal 1 = In Alarm
34102	Comm Loss: AFD Fault Input 2A	0 = Normal 1 = In Alarm
34103	Comm Loss: AFD Fault Input 2B	0 = Normal 1 = In Alarm
34104	Comm Loss: Auxiliary Setpoint Command	0 = Normal 1 = In Alarm
34105	Comm Loss: Cond Fan Enbl Shared Ckt 1&2	0 = Normal 1 = In Alarm
34106	Comm Loss: Cond Rfgt Tank Valve Ckt1	0 = Normal 1 = In Alarm
34107	Comm Loss: Cond Rfgt Tank Valve Ckt2	0 = Normal 1 = In Alarm
34108	Comm Loss: Condenser Fan Enable Circuit 1	0 = Normal 1 = In Alarm
34109	Comm Loss: Condenser Fan Enable Circuit 2	0 = Normal 1 = In Alarm
34110	Comm Loss: Condenser Rfgt Pressure Circuit 1	0 = Normal 1 = In Alarm
34111	Comm Loss: Condenser Rfgt Pressure Circuit 2	0 = Normal 1 = In Alarm
34112	Comm Loss: Cprsr Disch Rfgt Temp - 1A	0 = Normal 1 = In Alarm
34113	Comm Loss: Cprsr Disch Rfgt Temp - 1B	0 = Normal 1 = In Alarm
34114	Comm Loss: Cprsr Disch Rfgt Temp - 2A	0 = Normal 1 = In Alarm
34115	Comm Loss: Cprsr Disch Rfgt Temp - 2B	0 = Normal 1 = In Alarm
34116	Comm Loss: Drive Cooling Bypass Valve 1A	0 = Normal 1 = In Alarm
34117	Comm Loss: Drive Cooling Bypass Valve 2A	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34118	Comm Loss: Drive Cooling Supply Temp 1A	0 = Normal 1 = In Alarm
34119	Comm Loss: Drive Cooling Supply Temp 2A	0 = Normal 1 = In Alarm
34120	Comm Loss: Economizer Disch Press - 1A	0 = Normal 1 = In Alarm
34121	Comm Loss: Economizer Disch Press - 1B	0 = Normal 1 = In Alarm
34122	Comm Loss: Economizer Disch Press - 2A	0 = Normal 1 = In Alarm
34123	Comm Loss: Economizer Disch Press - 2B	0 = Normal 1 = In Alarm
34124	Comm Loss: Economizer Disch Temp - 1A	0 = Normal 1 = In Alarm
34125	Comm Loss: Economizer Disch Temp - 1B	0 = Normal 1 = In Alarm
34126	Comm Loss: Economizer Disch Temp - 2A	0 = Normal 1 = In Alarm
34127	Comm Loss: Economizer Disch Temp - 2B	0 = Normal 1 = In Alarm
34128	Comm Loss: Economizer Valve - 1A	0 = Normal 1 = In Alarm
34129	Comm Loss: Economizer Valve - 1B	0 = Normal 1 = In Alarm
34130	Comm Loss: Economizer Valve - 2A	0 = Normal 1 = In Alarm
34131	Comm Loss: Economizer Valve - 2B	0 = Normal 1 = In Alarm
34132	Comm Loss: Electronic Expansion Valve 1 Compressor 1A	0 = Normal 1 = In Alarm
34133	Comm Loss: Electronic Expansion Valve 1 Compressor 2A	0 = Normal 1 = In Alarm
34134	Comm Loss: Electronic Expansion Valve 2 Compressor 1B	0 = Normal 1 = In Alarm
34135	Comm Loss: Electronic Expansion Valve 2 Compressor 2B	0 = Normal 1 = In Alarm
34136	Comm Loss: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
34137	Comm Loss: Energy Meter 1	0 = Normal 1 = In Alarm
34138	Comm Loss: Energy Meter 2	0 = Normal 1 = In Alarm
34139	Comm Loss: Evap Diff Water Pressure	0 = Normal 1 = In Alarm
34140	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34141	Comm Loss: Evap Iso Valve Close Switch Compressor 1A	0 = Normal 1 = In Alarm
34142	Comm Loss: Evap Iso Valve Close Switch Compressor 2A	0 = Normal 1 = In Alarm
34143	Comm Loss: Evap Iso Valve Open Switch Compressor 1A	0 = Normal 1 = In Alarm
34144	Comm Loss: Evap Iso Valve Open Switch Compressor 2A	0 = Normal 1 = In Alarm
34145	Comm Loss: Evap Isolation Valve Relay Compressor 1A	0 = Normal 1 = In Alarm
34146	Comm Loss: Evap Isolation Valve Relay Compressor 2A	0 = Normal 1 = In Alarm
34147	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm
34148	Comm Loss: Evap Pump Inv1 Fault Input	0 = Normal 1 = In Alarm
34149	Comm Loss: Evap Pump Inv1 Run Command	0 = Normal 1 = In Alarm
34150	Comm Loss: Evap Rfgt Pool Temp Circuit 1	0 = Normal 1 = In Alarm
34151	Comm Loss: Evap Rfgt Pool Temp Circuit 2	0 = Normal 1 = In Alarm
34152	Comm Loss: Evap Water Pump Inv Freq Input	0 = Normal 1 = In Alarm
34153	Comm Loss: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
34154	Comm Loss: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
34155	Comm Loss: Evaporator Oil Return Purge Valve - 1A	0 = Normal 1 = In Alarm
34156	Comm Loss: Evaporator Oil Return Purge Valve - 2A	0 = Normal 1 = In Alarm
34157	Comm Loss: Evaporator Pump 1 Fault Input	0 = Normal 1 = In Alarm
34158	Comm Loss: Evaporator Pump 2 Fault Input	0 = Normal 1 = In Alarm
34159	Comm Loss: Evaporator Pump Fault Input	0 = Normal 1 = In Alarm
34160	Comm Loss: Evaporator Pump Inverter Running Status	0 = Normal 1 = In Alarm
34161	Comm Loss: Evaporator Pump Speed Command	0 = Normal 1 = In Alarm
34162	Comm Loss: Evaporator Pump Speed Feedback	0 = Normal 1 = In Alarm
34163	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34164	Comm Loss: Evaporator Water Pump 1 Relay	0 = Normal 1 = In Alarm
34165	Comm Loss: Evaporator Water Pump 2 Relay	0 = Normal 1 = In Alarm
34166	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm
34167	Comm Loss: Ext Chilled Water Setpoint	0 = Normal 1 = In Alarm
34168	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm
34169	Comm Loss: Ext Noise Reduction Request	0 = Normal 1 = In Alarm
34170	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm
34171	Comm Loss: External Ckt Lockout Circuit 1	0 = Normal 1 = In Alarm
34172	Comm Loss: External Ckt Lockout Circuit 2	0 = Normal 1 = In Alarm
34173	Comm Loss: External Heat Recovery Command	0 = Normal 1 = In Alarm
34174	Comm Loss: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
34175	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm
34176	Comm Loss: Fan Board 1 Relay 1 Circuit 1	0 = Normal 1 = In Alarm
34177	Comm Loss: Fan Board 1 Relay 1 Circuit 2	0 = Normal 1 = In Alarm
34178	Comm Loss: Fan Board 1 Relay 2 Circuit 1	0 = Normal 1 = In Alarm
34179	Comm Loss: Fan Board 1 Relay 2 Circuit 2	0 = Normal 1 = In Alarm
34180	Comm Loss: Fan Board 1 Relay 3 Circuit 1	0 = Normal 1 = In Alarm
34181	Comm Loss: Fan Board 1 Relay 3 Circuit 2	0 = Normal 1 = In Alarm
34182	Comm Loss: Fan Board 1 Relay 4 Circuit 1	0 = Normal 1 = In Alarm
34183	Comm Loss: Fan Board 1 Relay 4 Circuit 2	0 = Normal 1 = In Alarm
34184	Comm Loss: Fan Board 2 Relay 1 Circuit 1	0 = Normal 1 = In Alarm
34185	Comm Loss: Fan Board 2 Relay 1 Circuit 2	0 = Normal 1 = In Alarm
34186	Comm Loss: Fan Board 2 Relay 2 Circuit 1	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34187	Comm Loss: Fan Board 2 Relay 2 Circuit 2	0 = Normal 1 = In Alarm
34188	Comm Loss: Fan Board 2 Relay 3 Circuit 1	0 = Normal 1 = In Alarm
34189	Comm Loss: Fan Board 2 Relay 3 Circuit 2	0 = Normal 1 = In Alarm
34190	Comm Loss: Fan Board 2 Relay 4 Circuit 1	0 = Normal 1 = In Alarm
34191	Comm Loss: Fan Board 2 Relay 4 Circuit 2	0 = Normal 1 = In Alarm
34192	Comm Loss: Fan Inv Spd Cmd, Shrd Circuit 1 & 2	0 = Normal 1 = In Alarm
34193	Comm Loss: Fan Inverter Fault Circuit 1	0 = Normal 1 = In Alarm
34194	Comm Loss: Fan Inverter Fault Circuit 2	0 = Normal 1 = In Alarm
34195	Comm Loss: Fan Inverter Speed Command Circuit 1	0 = Normal 1 = In Alarm
34196	Comm Loss: Fan Inverter Speed Command Circuit 2	0 = Normal 1 = In Alarm
34197	Comm Loss: FC Entering Glycol Temp	0 = Normal 1 = In Alarm
34198	Comm Loss: FC Entering Water Temp	0 = Normal 1 = In Alarm
34199	Comm Loss: FC Leaving Glycol Temp	0 = Normal 1 = In Alarm
34200	Comm Loss: Free Cooling Bypass Valve	0 = Normal 1 = In Alarm
34201	Comm Loss: Free Cooling Dedicated Fan Enable	0 = Normal 1 = In Alarm
34202	Comm Loss: Free Cooling Dedicated Fan Inverter Fault	0 = Normal 1 = In Alarm
34203	Comm Loss: Free Cooling Dedicated Fan Inverter Speed Command	0 = Normal 1 = In Alarm
34204	Comm Loss: Free Cooling Glycol Flow Switch	0 = Normal 1 = In Alarm
34205	Comm Loss: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
34206	Comm Loss: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
34207	Comm Loss: Free Cooling Pump	0 = Normal 1 = In Alarm
34208	Comm Loss: Free Cooling Valve	0 = Normal 1 = In Alarm
34209	Comm Loss: Heat Recovery Mode Valve Command - Ckt1	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34210	Comm Loss: Heat Recovery Mode Valve Command - Ckt2	0 = Normal 1 = In Alarm
34211	Comm Loss: Heat Recovery Water Flow Cmd	0 = Normal 1 = In Alarm
34212	Comm Loss: Heat Recovery Water Pump Relay	0 = Normal 1 = In Alarm
34213	Comm Loss: Heat Recovery Water Flow Switch	0 = Normal 1 = In Alarm
34214	Comm Loss: High Pressure Cutout Sw - 1A	0 = Normal 1 = In Alarm
34215	Comm Loss: High Pressure Cutout Sw - 1B	0 = Normal 1 = In Alarm
34216	Comm Loss: High Pressure Cutout Sw - 2A	0 = Normal 1 = In Alarm
34217	Comm Loss: High Pressure Cutout Sw - 2B	0 = Normal 1 = In Alarm
34218	Comm Loss: Hot Gas Oil Return Valve - 1A	0 = Normal 1 = In Alarm
34219	Comm Loss: Hot Gas Oil Return Valve - 2A	0 = Normal 1 = In Alarm
34220	Comm Loss: HR Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34221	Comm Loss: HR Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34222	Comm Loss: Liquid Line Pressure Circuit 1	0 = Normal 1 = In Alarm
34223	Comm Loss: Liquid Line Pressure Circuit 2	0 = Normal 1 = In Alarm
34224	Comm Loss: Liquid Line Temperature Circuit 1	0 = Normal 1 = In Alarm
34225	Comm Loss: Liquid Line Temperature Circuit 2	0 = Normal 1 = In Alarm
34226	Comm Loss: Motor Winding Tstat Cprsr1A	0 = Normal 1 = In Alarm
34227	Comm Loss: Motor Winding Tstat Cprsr2A	0 = Normal 1 = In Alarm
34228	Comm Loss: Off-cycle Freeze Prot Relay	0 = Normal 1 = In Alarm
34229	Comm Loss: Oil Loss Level Sensor Input Circuit 1	0 = Normal 1 = In Alarm
34230	Comm Loss: Oil Loss Level Sensor Input Circuit 2	0 = Normal 1 = In Alarm
34231	Comm Loss: Oil Pressure - 1A	0 = Normal 1 = In Alarm
34232	Comm Loss: Oil Pressure - 1B	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34233	Comm Loss: Oil Pressure - 2A	0 = Normal 1 = In Alarm
34234	Comm Loss: Oil Pressure - 2B	0 = Normal 1 = In Alarm
34235	Comm Loss: Oil Return Solenoid Valve - 1B	0 = Normal 1 = In Alarm
34236	Comm Loss: Oil Return Solenoid Valve - 2B	0 = Normal 1 = In Alarm
34237	Comm Loss: Oil Return Valve - 1A	0 = Normal 1 = In Alarm
34238	Comm Loss: Oil Return Valve - 2A	0 = Normal 1 = In Alarm
34239	Comm Loss: Oil Supply Temperature	0 = Normal 1 = In Alarm
34240	Comm Loss: Oil Supply Temperature	0 = Normal 1 = In Alarm
34241	Comm Loss: Oil Temperature - 1A	0 = Normal 1 = In Alarm
34242	Comm Loss: Oil Temperature - 1B	0 = Normal 1 = In Alarm
34243	Comm Loss: Oil Temperature - 2A	0 = Normal 1 = In Alarm
34244	Comm Loss: Oil Temperature - 2B	0 = Normal 1 = In Alarm
34245	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm
34246	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm
34247	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm
34248	Comm Loss: Slide Valve Load - 1A	0 = Normal 1 = In Alarm
34249	Comm Loss: Slide Valve Load - 1B	0 = Normal 1 = In Alarm
34250	Comm Loss: Slide Valve Load - 2A	0 = Normal 1 = In Alarm
34251	Comm Loss: Slide Valve Load - 2B	0 = Normal 1 = In Alarm
34252	Comm Loss: Slide Valve Unload - 1A	0 = Normal 1 = In Alarm
34253	Comm Loss: Slide Valve Unload - 1B	0 = Normal 1 = In Alarm
34254	Comm Loss: Slide Valve Unload - 2A	0 = Normal 1 = In Alarm
34255	Comm Loss: Slide Valve Unload - 2B	0 = Normal 1 = In Alarm

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## Modbus™

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Modbus Register	Object Name	Object States
34256	Comm Loss: Starter 1A	0 = Normal 1 = In Alarm
34257	Comm Loss: Starter 1B	0 = Normal 1 = In Alarm
34258	Comm Loss: Starter 2A	0 = Normal 1 = In Alarm
34259	Comm Loss: Starter 2B	0 = Normal 1 = In Alarm
34260	Comm Loss: Step Load - 1A	0 = Normal 1 = In Alarm
34261	Comm Loss: Step Load - 1B	0 = Normal 1 = In Alarm
34262	Comm Loss: Step Load - 2A	0 = Normal 1 = In Alarm
34263	Comm Loss: Step Load - 2B	0 = Normal 1 = In Alarm
34264	Comm Loss: Suction Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
34265	Comm Loss: Suction Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
34266	Comm Loss: Suction Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
34267	Comm Loss: Suction Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
34268	Comm Loss: Var Vi Valve – Cprsr1A	0 = Normal 1 = In Alarm
34269	Comm Loss: Var Vi Valve – Cprsr2A	0 = Normal 1 = In Alarm
34270	Comm Loss: Winding Temp 1, Cprsr1A	0 = Normal 1 = In Alarm
34271	Comm Loss: Winding Temp 1, Cprsr2A	0 = Normal 1 = In Alarm
34272	Comm Loss: Winding Temp 2, Cprsr1A	0 = Normal 1 = In Alarm
34273	Comm Loss: Winding Temp 2, Cprsr2A	0 = Normal 1 = In Alarm
34274	Diagnostic: Condenser Rfgt Pressure Sensor Circuit 1	0 = Normal 1 = In Alarm
34275	Diagnostic: Condenser Rfgt Pressure Sensor Circuit 2	0 = Normal 1 = In Alarm
34276	Diagnostic: Cprsr Did Not Accel: Shutdown - 1A	0 = Normal 1 = In Alarm
34277	Diagnostic: Cprsr Did Not Accel: Shutdown - 1B	0 = Normal 1 = In Alarm
34278	Diagnostic: Cprsr Did Not Accel: Shutdown - 2A	0 = Normal 1 = In Alarm





Modbus Register	Object Name	Object States
34279	Diagnostic: Cprsr Did Not Accel: Shutdown - 2B	0 = Normal 1 = In Alarm
34280	Diagnostic: Cprsr Did Not Accel: Transition - 1A	0 = Normal 1 = In Alarm
34281	Diagnostic: Cprsr Did Not Accel: Transition - 1B	0 = Normal 1 = In Alarm
34282	Diagnostic: Cprsr Did Not Accel: Transition - 2A	0 = Normal 1 = In Alarm
34283	Diagnostic: Cprsr Did Not Accel: Transition - 2B	0 = Normal 1 = In Alarm
34284	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 1A	0 = Normal 1 = In Alarm
34285	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 1B	0 = Normal 1 = In Alarm
34286	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 2A	0 = Normal 1 = In Alarm
34287	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 2B	0 = Normal 1 = In Alarm
34288	Diagnostic: Drive Cooling Supply Temp Sensor - 1A	0 = Normal 1 = In Alarm
34289	Diagnostic: Drive Cooling Supply Temp Sensor - 2A	0 = Normal 1 = In Alarm
34290	Diagnostic: Economizer Disch Press Sensor - 1A	0 = Normal 1 = In Alarm
34291	Diagnostic: Economizer Disch Press Sensor - 1B	0 = Normal 1 = In Alarm
34292	Diagnostic: Economizer Disch Press Sensor - 2A	0 = Normal 1 = In Alarm
34293	Diagnostic: Economizer Disch Press Sensor - 2B	0 = Normal 1 = In Alarm
34294	Diagnostic: Economizer Disch Temp Sensor - 1A	0 = Normal 1 = In Alarm
34295	Diagnostic: Economizer Disch Temp Sensor - 1B	0 = Normal 1 = In Alarm
34296	Diagnostic: Economizer Disch Temp Sensor - 2A	0 = Normal 1 = In Alarm
34297	Diagnostic: Economizer Disch Temp Sensor - 2B	0 = Normal 1 = In Alarm
34298	Diagnostic: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
34299	Diagnostic: Evap Iso Valve Illegal Switch State Compressor 1A	0 = Normal 1 = In Alarm
34300	Diagnostic: Evap Iso Valve Illegal Switch State Compressor 2A	0 = Normal 1 = In Alarm
34301	Diagnostic: Evap Isolation Valve Closed Switch Failure Compressor 1A	0 = Normal 1 = In Alarm



Modbus Register	Object Name	Object States
34302	Diagnostic: Evap Isolation Valve Closed Switch Failure Compressor 2A	0 = Normal 1 = In Alarm
34303	Diagnostic: Evap Isolation Valve Failed To Close Compressor 1A	0 = Normal 1 = In Alarm
34304	Diagnostic: Evap Isolation Valve Failed To Close Compressor 2A	0 = Normal 1 = In Alarm
34305	Diagnostic: Evap Isolation Valve Failed To Open Compressor 1A	0 = Normal 1 = In Alarm
34306	Diagnostic: Evap Isolation Valve Failed To Open Compressor 2A	0 = Normal 1 = In Alarm
34307	Diagnostic: Evap Isolation Valve Open Switch Failure Compressor 1A	0 = Normal 1 = In Alarm
34308	Diagnostic: Evap Isolation Valve Open Switch Failure Compressor 2A	0 = Normal 1 = In Alarm
34309	Diagnostic: Evap Pump 1 Starts Run time Written	0 = Normal 1 = In Alarm
34310	Diagnostic: Evap Pump 2 Starts Run time Written	0 = Normal 1 = In Alarm
34311	Diagnostic: Evap Rfgt Pool Temp Sensor Circuit 1	0 = Normal 1 = In Alarm
34312	Diagnostic: Evap Rfgt Pool Temp Sensor Circuit 2	0 = Normal 1 = In Alarm
34313	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt1	0 = Normal 1 = In Alarm
34314	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt2	0 = Normal 1 = In Alarm
34315	Diagnostic: Evap Water Pump 1 Svc Recommended	0 = Normal 1 = In Alarm
34316	Diagnostic: Evap Water Pump 2 Svc Recommended	0 = Normal 1 = In Alarm
34317	Diagnostic: Evaporator Approach Error Circuit 1	0 = Normal 1 = In Alarm
34318	Diagnostic: Evaporator Approach Error Circuit 2	0 = Normal 1 = In Alarm
34319	Diagnostic: Evaporator Diff Water Pressure Xdcr	0 = Normal 1 = In Alarm
34320	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
34321	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34322	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
34323	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34324	Diagnostic: Evaporator Pump 1 Fault	0 = Normal 1 = In Alarm



Modbus Register	Object Name	Object States
34325	Diagnostic: Evaporator Pump 2 Fault	0 = Normal 1 = In Alarm
34326	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm
34327	Diagnostic: Evaporator Water Flow Lost - Pump1	0 = Normal 1 = In Alarm
34328	Diagnostic: Evaporator Water Flow Lost - Pump2	0 = Normal 1 = In Alarm
34329	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm
34330	Diagnostic: Evaporator Water Flow Overdue - Pump1	0 = Normal 1 = In Alarm
34331	Diagnostic: Evaporator Water Flow Overdue - Pump2	0 = Normal 1 = In Alarm
34332	Diagnostic: Evaporator Water Pump Fault	0 = Normal 1 = In Alarm
34333	Diagnostic: Evaporator Water Pump Speed Feedback	0 = Normal 1 = In Alarm
34334	Diagnostic: Excessive Condenser Pressure Circuit 1	0 = Normal 1 = In Alarm
34335	Diagnostic: Excessive Condenser Pressure Circuit 2	0 = Normal 1 = In Alarm
34336	Diagnostic: External Chilled Water Setpoint	0 = Normal 1 = In Alarm
34337	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm
34338	Diagnostic: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
34339	Diagnostic: Fan Inverter Fault Circuit 1	0 = Normal 1 = In Alarm
34340	Diagnostic: Fan Inverter Fault Circuit 2	0 = Normal 1 = In Alarm
34341	Diagnostic: Free Cooling Dedicated Fan Inverter Fault	0 = Normal 1 = In Alarm
34342	Diagnostic: Free Cooling Entering Glycol Temperature	0 = Normal 1 = In Alarm
34343	Diagnostic: Free Cooling Entering Water Temperature	0 = Normal 1 = In Alarm
34344	Diagnostic: Free Cooling Glycol Flow Lost	0 = Normal 1 = In Alarm
34345	Diagnostic: Free Cooling Glycol Flow Overdue	0 = Normal 1 = In Alarm
34346	Diagnostic: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
34347	Diagnostic: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34348	Diagnostic: Free Cooling Glycol Temperature Equalization Overdue	0 = Normal 1 = In Alarm
34349	Diagnostic: Free Cooling Leaving Glycol Temperature	0 = Normal 1 = In Alarm
34350	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34351	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34352	Diagnostic: Heat Recovery Water Flow Lost	0 = Normal 1 = In Alarm
34353	Diagnostic: Heat Recovery Water Flow Overdue	0 = Normal 1 = In Alarm
34354	Diagnostic: High Cprsr Rfgt Discharge Temp - 1A	0 = Normal 1 = In Alarm
34355	Diagnostic: High Cprsr Rfgt Discharge Temp - 1B	0 = Normal 1 = In Alarm
34356	Diagnostic: High Cprsr Rfgt Discharge Temp - 2A	0 = Normal 1 = In Alarm
34357	Diagnostic: High Cprsr Rfgt Discharge Temp - 2B	0 = Normal 1 = In Alarm
34358	Diagnostic: High Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
34359	Diagnostic: High Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
34360	Diagnostic: High Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
34361	Diagnostic: High Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
34362	Diagnostic: High Evaporator Refrigerant Pressure	0 = Normal 1 = In Alarm
34363	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm
34364	Diagnostic: High Motor Winding Temperature - 1A	0 = Normal 1 = In Alarm
34365	Diagnostic: High Motor Winding Temperature - 2A	0 = Normal 1 = In Alarm
34366	Diagnostic: High Oil Temperature - 1A	0 = Normal 1 = In Alarm
34367	Diagnostic: High Oil Temperature - 1B	0 = Normal 1 = In Alarm
34368	Diagnostic: High Oil Temperature - 2A	0 = Normal 1 = In Alarm
34369	Diagnostic: High Oil Temperature - 2B	0 = Normal 1 = In Alarm
34370	Diagnostic: High Pressure Cutout - 1A	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34371	Diagnostic: High Pressure Cutout - 1B	0 = Normal 1 = In Alarm
34372	Diagnostic: High Pressure Cutout - 2A	0 = Normal 1 = In Alarm
34373	Diagnostic: High Pressure Cutout - 2B	0 = Normal 1 = In Alarm
34374	Diagnostic: High Refrigerant Pressure Ratio - 1A	0 = Normal 1 = In Alarm
34375	Diagnostic: High Refrigerant Pressure Ratio - 1B	0 = Normal 1 = In Alarm
34376	Diagnostic: High Refrigerant Pressure Ratio - 2A	0 = Normal 1 = In Alarm
34377	Diagnostic: High Refrigerant Pressure Ratio - 2B	0 = Normal 1 = In Alarm
34378	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm
34379	Diagnostic: Liquid Line Pressure Sensor Circuit 1	0 = Normal 1 = In Alarm
34380	Diagnostic: Liquid Line Pressure Sensor Circuit 2	0 = Normal 1 = In Alarm
34381	Diagnostic: Liquid Line Temp Sensor Circuit 1	0 = Normal 1 = In Alarm
34382	Diagnostic: Liquid Line Temp Sensor Circuit 2	0 = Normal 1 = In Alarm
34383	Diagnostic: Loss of Oil for Compressor (Running) Compressor 1A	0 = Normal 1 = In Alarm
34384	Diagnostic: Loss of Oil for Compressor (Running) Compressor 2A	0 = Normal 1 = In Alarm
34385	Diagnostic: Loss of Oil for Compressor (Stopped) Compressor 1A	0 = Normal 1 = In Alarm
34386	Diagnostic: Loss of Oil for Compressor (Stopped) Compressor 2A	0 = Normal 1 = In Alarm
34387	Diagnostic: Low Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
34388	Diagnostic: Low Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
34389	Diagnostic: Low Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
34390	Diagnostic: Low Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
34391	Diagnostic: Low Discharge Superheat - 1A	0 = Normal 1 = In Alarm
34392	Diagnostic: Low Discharge Superheat - 1B	0 = Normal 1 = In Alarm
34393	Diagnostic: Low Discharge Superheat - 2A	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34394	Diagnostic: Low Discharge Superheat - 2B	0 = Normal 1 = In Alarm
34395	Diagnostic: Low Drive Cooling Supply Temperature - 1A	0 = Normal 1 = In Alarm
34396	Diagnostic: Low Drive Cooling Supply Temperature - 2A	0 = Normal 1 = In Alarm
34397	Diagnostic: Low Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
34398	Diagnostic: Low Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
34399	Diagnostic: Low Evaporator Rfght Temp Ckt 1: Unit Off	0 = Normal 1 = In Alarm
34400	Diagnostic: Low Evaporator Rfght Temp Ckt 2: Unit Off	0 = Normal 1 = In Alarm
34401	Diagnostic: Low Evaporator Water Flow	0 = Normal 1 = In Alarm
34402	Diagnostic: Low Evaporator Water Temp (Unit Off)	0 = Normal 1 = In Alarm
34403	Diagnostic: Low Evaporator Water Temp (Unit On)	0 = Normal 1 = In Alarm
34404	Diagnostic: Low Glycol Pressure Free Cooling	0 = Normal 1 = In Alarm
34405	Diagnostic: Low Glycol Temp Free Cooling	0 = Normal 1 = In Alarm
34406	Diagnostic: Low Oil Flow - 1A	0 = Normal 1 = In Alarm
34407	Diagnostic: Low Oil Flow - 1B	0 = Normal 1 = In Alarm
34408	Diagnostic: Low Oil Flow - 2A	0 = Normal 1 = In Alarm
34409	Diagnostic: Low Oil Flow - 2B	0 = Normal 1 = In Alarm
34410	Diagnostic: Low Refrigerant Temperature Circuit 1	0 = Normal 1 = In Alarm
34411	Diagnostic: Low Refrigerant Temperature Circuit 2	0 = Normal 1 = In Alarm
34412	Diagnostic: Low Suction Refrigerant Pressure - 1A	0 = Normal 1 = In Alarm
34413	Diagnostic: Low Suction Refrigerant Pressure - 1B	0 = Normal 1 = In Alarm
34414	Diagnostic: Low Suction Refrigerant Pressure - 2A	0 = Normal 1 = In Alarm
34415	Diagnostic: Low Suction Refrigerant Pressure - 2B	0 = Normal 1 = In Alarm
34416	Diagnostic: Mfr Maintenance Recommended - 1A	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34417	Diagnostic: Mfr Maintenance Recommended - 1B	0 = Normal 1 = In Alarm
34418	Diagnostic: Mfr Maintenance Recommended - 2A	0 = Normal 1 = In Alarm
34419	Diagnostic: Mfr Maintenance Recommended - 2B	0 = Normal 1 = In Alarm
34420	Diagnostic: Momentary Power Loss Compressor 1A	0 = Normal 1 = In Alarm
34421	Diagnostic: Momentary Power Loss Compressor 2A	0 = Normal 1 = In Alarm
34422	Diagnostic: Motor Current Overload - 1A	0 = Normal 1 = In Alarm
34423	Diagnostic: Motor Current Overload - 1B	0 = Normal 1 = In Alarm
34424	Diagnostic: Motor Current Overload - 2A	0 = Normal 1 = In Alarm
34425	Diagnostic: Motor Current Overload - 2B	0 = Normal 1 = In Alarm
34426	Diagnostic: Motor Winding Temp Sensor - 1A	0 = Normal 1 = In Alarm
34427	Diagnostic: Motor Winding Temp Sensor - 2A	0 = Normal 1 = In Alarm
34428	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm
34429	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm
34430	Diagnostic: No Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
34431	Diagnostic: No Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
34432	Diagnostic: No Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
34433	Diagnostic: No Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
34434	Diagnostic: Oil Filter Change Recommended - Cprsr1A	0 = Normal 1 = In Alarm
34435	Diagnostic: Oil Filter Change Recommended - Cprsr2A	0 = Normal 1 = In Alarm
34436	Diagnostic: Oil Flow Protection Fault - 1A	0 = Normal 1 = In Alarm
34437	Diagnostic: Oil Flow Protection Fault - 1B	0 = Normal 1 = In Alarm
34438	Diagnostic: Oil Flow Protection Fault - 2A	0 = Normal 1 = In Alarm
34439	Diagnostic: Oil Flow Protection Fault - 2B	0 = Normal 1 = In Alarm



Modbus Register	Object Name	Object States
34440	Diagnostic: Oil Pressure Sensor - 1A	0 = Normal 1 = In Alarm
34441	Diagnostic: Oil Pressure Sensor - 1B	0 = Normal 1 = In Alarm
34442	Diagnostic: Oil Pressure Sensor - 2A	0 = Normal 1 = In Alarm
34443	Diagnostic: Oil Pressure Sensor - 2B	0 = Normal 1 = In Alarm
34444	Diagnostic: Oil Supply Temp Sensor Circuit 1	0 = Normal 1 = In Alarm
34445	Diagnostic: Oil Supply Temp Sensor Circuit 2	0 = Normal 1 = In Alarm
34446	Diagnostic: Oil Temperature Sensor - 1A	0 = Normal 1 = In Alarm
34447	Diagnostic: Oil Temperature Sensor - 1B	0 = Normal 1 = In Alarm
34448	Diagnostic: Oil Temperature Sensor - 2A	0 = Normal 1 = In Alarm
34449	Diagnostic: Oil Temperature Sensor - 2B	0 = Normal 1 = In Alarm
34450	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm
34451	Diagnostic: Over Voltage	0 = Normal 1 = In Alarm
34452	Diagnostic: Phase Loss - 1A	0 = Normal 1 = In Alarm
34453	Diagnostic: Phase Loss - 1B	0 = Normal 1 = In Alarm
34454	Diagnostic: Phase Loss - 2A	0 = Normal 1 = In Alarm
34455	Diagnostic: Phase Loss - 2B	0 = Normal 1 = In Alarm
34456	Diagnostic: Phase Reversal - 1A	0 = Normal 1 = In Alarm
34457	Diagnostic: Phase Reversal - 1B	0 = Normal 1 = In Alarm
34458	Diagnostic: Phase Reversal - 2A	0 = Normal 1 = In Alarm
34459	Diagnostic: Phase Reversal - 2B	0 = Normal 1 = In Alarm
34460	Diagnostic: Power Loss - 1A	0 = Normal 1 = In Alarm
34461	Diagnostic: Power Loss - 1B	0 = Normal 1 = In Alarm
34462	Diagnostic: Power Loss - 2A	0 = Normal 1 = In Alarm





Modbus Register	Object Name	Object States
34463	Diagnostic: Power Loss - 2B	0 = Normal 1 = In Alarm
34464	Diagnostic: Pumpdown Terminated By Time Circuit 1	0 = Normal 1 = In Alarm
34465	Diagnostic: Pumpdown Terminated By Time Circuit 2	0 = Normal 1 = In Alarm
34466	Diagnostic: Restart Inhibit Invoked - 1A	0 = Normal 1 = In Alarm
34467	Diagnostic: Restart Inhibit Invoked - 1B	0 = Normal 1 = In Alarm
34468	Diagnostic: Restart Inhibit Invoked - 2A	0 = Normal 1 = In Alarm
34469	Diagnostic: Restart Inhibit Invoked - 2B	0 = Normal 1 = In Alarm
34470	Diagnostic: Severe Current Imbalance - 1A	0 = Normal 1 = In Alarm
34471	Diagnostic: Severe Current Imbalance - 1B	0 = Normal 1 = In Alarm
34472	Diagnostic: Severe Current Imbalance - 2A	0 = Normal 1 = In Alarm
34473	Diagnostic: Severe Current Imbalance - 2B	0 = Normal 1 = In Alarm
34474	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm
34475	Diagnostic: Software Error 1002: Call Trane Service	0 = Normal 1 = In Alarm
34476	Diagnostic: Software Error 1003: Call Trane Service	0 = Normal 1 = In Alarm
34477	Diagnostic: Starter Comm Loss: Main Processor - 1A	0 = Normal 1 = In Alarm
34478	Diagnostic: Starter Comm Loss: Main Processor - 1B	0 = Normal 1 = In Alarm
34479	Diagnostic: Starter Comm Loss: Main Processor - 2A	0 = Normal 1 = In Alarm
34480	Diagnostic: Starter Comm Loss: Main Processor - 2B	0 = Normal 1 = In Alarm
34481	Diagnostic: Starter Contactor Interrupt Failure - 1A	0 = Normal 1 = In Alarm
34482	Diagnostic: Starter Contactor Interrupt Failure - 1B	0 = Normal 1 = In Alarm
34483	Diagnostic: Starter Contactor Interrupt Failure - 2A	0 = Normal 1 = In Alarm
34484	Diagnostic: Starter Contactor Interrupt Failure - 2B	0 = Normal 1 = In Alarm
34485	Diagnostic: Starter Did Not Fully Accelerate	0 = Normal 1 = In Alarm



Modbus Register	Object Name	Object States
34486	Diagnostic: Starter Did Not Transition - 1A	0 = Normal 1 = In Alarm
34487	Diagnostic: Starter Did Not Transition - 1B	0 = Normal 1 = In Alarm
34488	Diagnostic: Starter Did Not Transition - 2A	0 = Normal 1 = In Alarm
34489	Diagnostic: Starter Did Not Fully Accelerate Compressor 2A	0 = Normal 1 = In Alarm
34490	Diagnostic: Starter Did Not Transition - 2B	0 = Normal 1 = In Alarm
34491	Diagnostic: Starter Dry Run Test - 1A	0 = Normal 1 = In Alarm
34492	Diagnostic: Starter Dry Run Test - 1B	0 = Normal 1 = In Alarm
34493	Diagnostic: Starter Dry Run Test - 2A	0 = Normal 1 = In Alarm
34494	Diagnostic: Starter Dry Run Test - 2B	0 = Normal 1 = In Alarm
34495	Diagnostic: Starter Failed to Arm/Start - 1A	0 = Normal 1 = In Alarm
34496	Diagnostic: Starter Failed to Arm/Start - 1B	0 = Normal 1 = In Alarm
34497	Diagnostic: Starter Failed to Arm/Start - 2A	0 = Normal 1 = In Alarm
34498	Diagnostic: Starter Failed to Arm/Start - 2B	0 = Normal 1 = In Alarm
34499	Diagnostic: Starter Fault Type I - 1A	0 = Normal 1 = In Alarm
34500	Diagnostic: Starter Fault Type I - 1B	0 = Normal 1 = In Alarm
34501	Diagnostic: Starter Fault Type I - 2A	0 = Normal 1 = In Alarm
34502	Diagnostic: Starter Fault Type I - 2B	0 = Normal 1 = In Alarm
34503	Diagnostic: Starter Fault Type II - 1A	0 = Normal 1 = In Alarm
34504	Diagnostic: Starter Fault Type II - 1B	0 = Normal 1 = In Alarm
34505	Diagnostic: Starter Fault Type II - 2A	0 = Normal 1 = In Alarm
34506	Diagnostic: Starter Fault Type II - 2B	0 = Normal 1 = In Alarm
34507	Diagnostic: Starter Fault Type III - 1A	0 = Normal 1 = In Alarm
34508	Diagnostic: Starter Fault Type III - 1B	0 = Normal 1 = In Alarm

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34509	Diagnostic: Starter Fault Type III - 2A	0 = Normal 1 = In Alarm
34510	Diagnostic: Starter Fault Type III - 2B	0 = Normal 1 = In Alarm
34511	Diagnostic: Starter Module Memory Error Type 1 - 1A	0 = Normal 1 = In Alarm
34512	Diagnostic: Starter Module Memory Error Type 1 - 1B	0 = Normal 1 = In Alarm
34513	Diagnostic: Starter Module Memory Error Type 1 - 2A	0 = Normal 1 = In Alarm
34514	Diagnostic: Starter Module Memory Error Type 1 - 2B	0 = Normal 1 = In Alarm
34515	Diagnostic: Starter Module Memory Error Type 2 - 1A	0 = Normal 1 = In Alarm
34516	Diagnostic: Starter Module Memory Error Type 2 - 1B	0 = Normal 1 = In Alarm
34517	Diagnostic: Starter Module Memory Error Type 2 - 2A	0 = Normal 1 = In Alarm
34518	Diagnostic: Starter Module Memory Error Type 2 - 2B	0 = Normal 1 = In Alarm
34519	Diagnostic: Starts/Hours Modified 1A	0 = Normal 1 = In Alarm
34520	Diagnostic: Starts/Hours Modified 1B	0 = Normal 1 = In Alarm
34521	Diagnostic: Starts/Hours Modified 2A	0 = Normal 1 = In Alarm
34522	Diagnostic: Starts/Hours Modified 2B	0 = Normal 1 = In Alarm
34523	Diagnostic: Suction Refrigerant Pressure Sensor - 1A	0 = Normal 1 = In Alarm
34524	Diagnostic: Suction Refrigerant Pressure Sensor - 1B	0 = Normal 1 = In Alarm
34525	Diagnostic: Suction Refrigerant Pressure Sensor - 2A	0 = Normal 1 = In Alarm
34526	Diagnostic: Suction Refrigerant Pressure Sensor - 2B	0 = Normal 1 = In Alarm
34527	Diagnostic: Transition Complete Input Opened - 1A	0 = Normal 1 = In Alarm
34528	Diagnostic: Transition Complete Input Opened - 1B	0 = Normal 1 = In Alarm
34529	Diagnostic: Transition Complete Input Opened - 2A	0 = Normal 1 = In Alarm
34530	Diagnostic: Transition Complete Input Opened - 2B	0 = Normal 1 = In Alarm
34531	Diagnostic: Transition Complete Input Shorted - 1A	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States
34532	Diagnostic: Transition Complete Input Shorted - 1B	0 = Normal 1 = In Alarm
34533	Diagnostic: Transition Complete Input Shorted - 2A	0 = Normal 1 = In Alarm
34534	Diagnostic: Transition Complete Input Shorted - 2B	0 = Normal 1 = In Alarm
34535	Diagnostic: Under Voltage	0 = Normal 1 = In Alarm
34536	Diagnostic: Unexpected Starter Shutdown - 1A	0 = Normal 1 = In Alarm
34537	Diagnostic: Unexpected Starter Shutdown - 1B	0 = Normal 1 = In Alarm
34538	Diagnostic: Unexpected Starter Shutdown - 2A	0 = Normal 1 = In Alarm
34539	Diagnostic: Unexpected Starter Shutdown - 2B	0 = Normal 1 = In Alarm
34540	Diagnostic: Very Low Evap Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
34541	Diagnostic: Very Low Evap Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
34542	Diagnostic: Very Low Evap Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
34543	Diagnostic: Very Low Evap Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
34544	Diagnostic: Write Command Failure Energy Meter 1	0 = Normal 1 = In Alarm
34545	Diagnostic: Write Command Failure Energy Meter 2	0 = Normal 1 = In Alarm
34546	Comm Loss: Ice Building Status Relay	0 = Normal 1 = In Alarm

**Symbio™ 800 Integration Points List**  
**Modbus™**  
 Ascend™ Model ACR Series C

Date: 11/15/2024  
 Reference Document: BAS-SVP083\*-EN



Modbus Register	Object Name	Description	Object States	Configuration Dependency
43011	Reset Diagnostic	BAS Diagnostic Reset	0 = Normal 1 = Reset	Standard
43012	Noise Reduction Request BAS	BAS Noise Reduction Command	0 = Normal 1 = Reduce Noise	Low Noise
43013	Circuit 1 Lockout BAS	BAS Circuit 1 Lockout	0 = Normal 1 = Locked Out	Standard
43014	Circuit 2 Lockout BAS	BAS Circuit 2 Lockout	0 = Normal 1 = Locked Out	Standard
43018	Energy Consumption Reset	Energy Consumption Reset	0 = Accumulating 1 = Reset	Power Monitor
43019	Chiller Auto Stop Command BAS	BAS Chiller Auto Stop Command	0 = Stop 1 = Auto	Standard
43020	Free Cooling Auto Stop Command BAS	BAS Free Cooling Auto Stop Command	0 = Stop 1 = Auto	Free Cooling
43021	Free Cooling Compressor Lockout	BAS Free Cooling Compressor Lockout	0 = Normal 1 = Locked Out	Free Cooling
43022	Compressor 1B Lockout BAS	BAS Compressor 1B Lockout	0 = Normal 1 = Locked Out	Standard
43023	Compressor 2B Lockout BAS	BAS Compressor 2B Lockout	0 = Normal 1 = Locked Out	Standard



Object Identifier	Object Name	Description	Object States	Configuration Dependency
32011	Running Mode	Indicates the running state of the chiller	1 = Chiller Off 2 = Chiller In Start Mode 3= Chiller In Run Mode 4= Chiller In Pre-Shutdown Mode 5 = Chiller In Service Mode	Standard
32012	Operating Mode	Indicates the operating mode of the chiller	1 = Cool 2 = Heat 3= Ice Making 4= Free Cooling	Standard
32013	Refrigerant Type	Indicates the chiller refrigerant type	1 = R-11 2 = R-12 3= R-22 4= R-123 5 = R-134a 6 = R-407C 7 = R-410A 8 = R-113 9 = R-114 10 = R-500 11 = R-502 12 = R-404A 13 = R-513A 14 = R-1233zd(E) 15 = R-514A 16 = R-1234ze(E)	Standard
32014	Cooling Type	Indicates the cooling Type of chiller	1 = Water Cooled 2 = Air Cooled	Standard



Object Identifier	Object Name	Description	Object States	Configuration Dependency
32015	Manufacture Location	Indicates the location that the chiller was manufactured	1 = Field Applied 2 = La Crosse 3 = Pueblo 4 = Charnes 5 = Rushville 6 = Macon 7 = Waco 8 = Lexington 9 = Forsyth 10 = Clarksville 11 = Ft. Smith 12 = Penang 13 = Colchester 14 = Curitiba 15 = Taicang 16 = Taiwan 17 = Epinal 18 = Golbey	Standard



Object Identifier	Object Name	Description	Object States	Configuration Dependency
MI-10105	Model Information [GEN2]	Indicates the model information of chiller	1 = CVHF 2 = CVGF 3 = CVHS 4 = RTAE 5 = RTAF 6 = RTHA 7 = RTHB 8 = RTHC 9 = RTHD 10 = RTWE 11 = CTVD 12 = CVR 13 = CVHH 14 = CDHH 15 = VMAX 16 = GVAF 17 = RTWF 18 = RTHF 19 = RTAC 20 = CVHM 21 = RTAG 22 = CGAF 23 = RTXG 24 = GVWF 25 = HDWA 26 = CMAC 27 = IPAK 28 = CXAF 29 = ACSA 30 = RTSF 31 = HSWA 32 = ACRA 33 = RTEG 34 = ACXA 35 = CMAF 36 = ACRB Large 37 = ACRB Small 38 = CVHE 39 = CVHG 40 = CVHL 41 = RTWF XSE 42 = CGWF 43 = CDHG 44 = ACCA 45 = RTWD 46 = RTUD 47 = CXWF 48 = CCUF 49 = RTHG 50 = CGAM 51 = CXAM 52 = CGAX 53 = CXAX 54 = EIC 55 = EIH 56 = RTXG 57 = RTMG 58 = ACRC 59 = HSWB	Standard
32017	Chiller Setpoint Source	Indicates the selected setpoint source for control purpose	1 = BAS 2 = External 3 = Front Panel	Standard



# Symbio™ 800 Integration Points List

## Modbus™

### Ascend™ Model ACR Series C

Date: 11/15/2024

Reference Document: BAS-SVP083\*-EN



Register Address	Point Name	Description	Units	Configuration Dependency
42011	Chiller Mode Command BAS	Normally used by the BMS to command the chiller Mode	1 = Cool 2 = Heat 3= Ice Making 4= Free Cooling	Standard

**Symbio™ 800 Integration Points List**  
**BACnet®/Modbus™**  
Ascend™ Model ACR Series C

Date: 11/15/2024  
Reference Document: BAS-SVP083\*-EN



**Diagnostic Hex Codes**



Diagnostic Code (decimal)	Diagnostic Name
401063	AFD 1A Bus Over Voltage
401064	AFD 1A Bus Under Voltage
401041	AFD 1A Comm Loss: Main Processor
401117	AFD 1A Customized Protection Fault
401056	AFD 1A Gate Kill Active
401042	AFD 1A General Failure
401088	AFD 1A General Failure
401047	AFD 1A Ground Fault
401115	AFD 1A Input Phase Loss
401118	AFD 1A Input Transf or Filter Over Temp
401119	AFD 1A Loss Of Motor Control
401049	AFD 1A Low Rotor Flux Feedback
401046	AFD 1A Motor Current Overload
401116	AFD 1A Motor Fault
401112	AFD 1A Motor Shorted
401113	AFD 1A Over Temperature
401114	AFD 1A Precharge Fault
411063	AFD 2A Bus Over Voltage
411064	AFD 2A Bus Under Voltage
411041	AFD 2A Comm Loss: Main Processor
411117	AFD 2A Customized Protection Fault
411056	AFD 2A Gate Kill Active
411042	AFD 2A General Failure
411088	AFD 2A General Failure
411047	AFD 2A Ground Fault
411115	AFD 2A Input Phase Loss
411118	AFD 2A Input Transf or Filter Over Temp
411119	AFD 2A Loss Of Motor Control
411049	AFD 2A Low Rotor Flux Feedback
411046	AFD 2A Motor Current Overload
411116	AFD 2A Motor Fault
411112	AFD 2A Motor Shorted
411113	AFD 2A Over Temperature



Diagnostic Code (decimal)	Diagnostic Name
411114	AFD 2A Precharge Fault
401121	AFD Bus Over Voltage - 1A
411121	AFD Bus Over Voltage - 2A
401122	AFD Bus Under Voltage - 1A
411122	AFD Bus Under Voltage - 2A
401003	AFD Comm Loss – 1A
411003	AFD Comm Loss – 2A
401130	AFD Comm Loss: Main Processor - 1A
411130	AFD Comm Loss: Main Processor - 2A
401102	AFD Failure to Arm or Start - 1A
411102	AFD Failure to Arm or Start - 2A
401107	AFD Fault Mains - 1A
411107	AFD Fault Mains - 2A
401135	AFD General Fault - 1A
411135	AFD General Fault - 2A
401128	AFD Ground Fault - 1A
411128	AFD Ground Fault - 2A
401101	AFD Harmonic Filter Over Temperature - 1A
411101	AFD Harmonic Filter Over Temperature - 2A
401095	AFD High Pressure Cutout - 1A
411095	AFD High Pressure Cutout - 2A
401126	AFD High Torque - 1A
411126	AFD High Torque - 2A
401136	AFD Initialized - 1A
411136	AFD Initialized - 2A
401104	AFD Internal Fault - 1A
411104	AFD Internal Fault - 2A
401007	AFD Interrupt Failure - 1A
402007	AFD Interrupt Failure - 1B
411007	AFD Interrupt Failure - 2A
412007	AFD Interrupt Failure - 2B
401134	AFD Inverter Heatsink Over Temperature - 1A
411134	AFD Inverter Heatsink Over Temperature - 2A



Diagnostic Code (decimal)	Diagnostic Name
401125	AFD Locked Rotor - 1A
411125	AFD Locked Rotor - 2A
401120	AFD Mains Phase Loss - 1A
411120	AFD Mains Phase Loss - 2A
401137	AFD Missing Motor - 1A
411137	AFD Missing Motor - 2A
401089	AFD Motor Current Overload - 1A
401127	AFD Motor Current Overload - 1A
402089	AFD Motor Current Overload - 1B
411089	AFD Motor Current Overload - 2A
411127	AFD Motor Current Overload - 2A
412089	AFD Motor Current Overload - 2B
401093	AFD Motor Fault - 1A
411093	AFD Motor Fault - 2A
401138	AFD New Spare Parts - 1A
411138	AFD New Spare Parts - 2A
401123	AFD Option Configuration Change - 1A
411123	AFD Option Configuration Change - 2A
401131	AFD Output Phase U Loss - 1A
411131	AFD Output Phase U Loss - 2A
401132	AFD Output Phase V Loss - 1A
411132	AFD Output Phase V Loss - 2A
401133	AFD Output Phase W Loss - 1A
411133	AFD Output Phase W Loss - 2A
401124	AFD Over Temperature - 1A
411124	AFD Over Temperature - 2A
401129	AFD Short Circuit - 1A
411129	AFD Short Circuit - 2A
401103	AFD Unexpected Shutdown - 1A
411103	AFD Unexpected Shutdown - 2A
1003	Check Clock
331003	Chiller Service Recommended
81012	Comm Loss: %RLA Indication Output(Vdc)



Diagnostic Code (decimal)	Diagnostic Name
401092	Comm Loss: AFD Fault Input 1A
402092	Comm Loss: AFD Fault Input 1B
411092	Comm Loss: AFD Fault Input 2A
412092	Comm Loss: AFD Fault Input 2B
81015	Comm Loss: Auxiliary Setpoint Command
251009	Comm Loss: Cond Fan Enbl Shared Ckt 1&2
41029	Comm Loss: Cond Rfgt Tank Valve - Circuit 1
42029	Comm Loss: Cond Rfgt Tank Valve - Circuit 2
251004	Comm Loss: Condenser Fan Enable - Circuit 1
252004	Comm Loss: Condenser Fan Enable - Circuit 2
41001	Comm Loss: Condenser Rfgt Pressure - Circuit 1
42001	Comm Loss: Condenser Rfgt Pressure - Circuit 2
361006	Comm Loss: Cprsr Disch Rfgt Temp - 1A
362006	Comm Loss: Cprsr Disch Rfgt Temp - 1B
371006	Comm Loss: Cprsr Disch Rfgt Temp - 2A
372006	Comm Loss: Cprsr Disch Rfgt Temp - 2B
341025	Comm Loss: Drive Cooling Bypass Valve 1A
351025	Comm Loss: Drive Cooling Bypass Valve 2A
341023	Comm Loss: Drive Cooling Supply Temp 1A
351023	Comm Loss: Drive Cooling Supply Temp 2A
341020	Comm Loss: Economizer Disch Press - 1A
342020	Comm Loss: Economizer Disch Press - 1B
351020	Comm Loss: Economizer Disch Press - 2A
352020	Comm Loss: Economizer Disch Press - 2B
341018	Comm Loss: Economizer Disch Temp - 1A
342018	Comm Loss: Economizer Disch Temp - 1B
351018	Comm Loss: Economizer Disch Temp - 2A
352018	Comm Loss: Economizer Disch Temp - 2B
341017	Comm Loss: Economizer Valve - 1A
342017	Comm Loss: Economizer Valve - 1B
351017	Comm Loss: Economizer Valve - 2A
352017	Comm Loss: Economizer Valve - 2B
291001	Comm Loss: Electronic Expansion Valve 1 - Circuit 1



Diagnostic Code (decimal)	Diagnostic Name
292001	Comm Loss: Electronic Expansion Valve 1 - Circuit 2
291002	Comm Loss: Electronic Expansion Valve 2 - Circuit 1
292002	Comm Loss: Electronic Expansion Valve 2 - Circuit 2
81002	Comm Loss: Emergency Stop Feedback Input
21006	Comm Loss: Energy Meter 1
21007	Comm Loss: Energy Meter 2
231017	Comm Loss: Evap Diff Water Pressure
231001	Comm Loss: Evap Entering Water Temp
41026	Comm Loss: Evap Iso Valve Close Switch - Circuit 1
42026	Comm Loss: Evap Iso Valve Close Switch - Circuit 2
41027	Comm Loss: Evap Iso Valve Open Switch - Circuit 1
42027	Comm Loss: Evap Iso Valve Open Switch - Circuit 2
41025	Comm Loss: Evap Isolation Valve Relay - Circuit 1
42025	Comm Loss: Evap Isolation Valve Relay - Circuit 2
231003	Comm Loss: Evap Leaving Water Temp
441025	Comm Loss: Evap Pump Inv1 Fault Input
441023	Comm Loss: Evap Pump Inv1 Run Command
41019	Comm Loss: Evap Rfgt Pool Temp - Circuit 1
42019	Comm Loss: Evap Rfgt Pool Temp - Circuit 2
441024	Comm Loss: Evap Water Pump Inv Freq Input
231021	Comm Loss: Evaporator Entering Water Pressure
231022	Comm Loss: Evaporator Leaving Water Pressure
341026	Comm Loss: Evaporator Oil Return Purge Valve - 1A
351026	Comm Loss: Evaporator Oil Return Purge Valve - 2A
441009	Comm Loss: Evaporator Pump 1 Fault Input
441010	Comm Loss: Evaporator Pump 2 Fault Input
61007	Comm Loss: Evaporator Pump Fault Input
61006	Comm Loss: Evaporator Pump Inverter Running Status
61004	Comm Loss: Evaporator Pump Speed Command
61005	Comm Loss: Evaporator Pump Speed Feedback
61002	Comm Loss: Evaporator Water Flow Switch
441001	Comm Loss: Evaporator Water Pump 1 Relay
441002	Comm Loss: Evaporator Water Pump 2 Relay



Diagnostic Code (decimal)	Diagnostic Name
441028	Comm Loss: Evaporator Water Pump Relay
81006	Comm Loss: Ext Chilled Water Setpoint
81009	Comm Loss: Ext Demand Limit Setpoint
81014	Comm Loss: Ext Noise Reduction Request
81001	Comm Loss: External Auto/Stop
41013	Comm Loss: External Ckt Lockout - Circuit 1
42013	Comm Loss: External Ckt Lockout - Circuit 2
481006	Comm Loss: External Heat Recovery Command
481007	Comm Loss: External Heat Recovery Setpoint
171001	Comm Loss: External Ice Building Command
251010	Comm Loss: Fan Board 1 Relay 1 - Circuit 1
252010	Comm Loss: Fan Board 1 Relay 1 - Circuit 2
251011	Comm Loss: Fan Board 1 Relay 2 - Circuit 1
252011	Comm Loss: Fan Board 1 Relay 2 - Circuit 2
251012	Comm Loss: Fan Board 1 Relay 3 - Circuit 1
252012	Comm Loss: Fan Board 1 Relay 3 - Circuit 2
251013	Comm Loss: Fan Board 1 Relay 4 - Circuit 1
252013	Comm Loss: Fan Board 1 Relay 4 - Circuit 2
251014	Comm Loss: Fan Board 2 Relay 1 - Circuit 1
252014	Comm Loss: Fan Board 2 Relay 1 - Circuit 2
251015	Comm Loss: Fan Board 2 Relay 2 - Circuit 1
252015	Comm Loss: Fan Board 2 Relay 2 - Circuit 2
251016	Comm Loss: Fan Board 2 Relay 3 - Circuit 1
252016	Comm Loss: Fan Board 2 Relay 3 - Circuit 2
251017	Comm Loss: Fan Board 2 Relay 4 - Circuit 1
252017	Comm Loss: Fan Board 2 Relay 4 - Circuit 2
251008	Comm Loss: Fan Inv Spd Cmd, Shrd Ckt1&2
251001	Comm Loss: Fan Inverter Fault - Circuit 1
252001	Comm Loss: Fan Inverter Fault - Circuit 2
251002	Comm Loss: Fan Inverter Speed Command - Circuit 1
252002	Comm Loss: Fan Inverter Speed Command - Circuit 2
491005	Comm Loss: FC Entering Glycol Temp
491001	Comm Loss: FC Entering Water Temp





Diagnostic Code (decimal)	Diagnostic Name
491007	Comm Loss: FC Leaving Glycol Temp
491004	Comm Loss: Free Cooling Bypass Valve
491022	Comm Loss: Free Cooling Dedicated Fan Enable
491024	Comm Loss: Free Cooling Dedicated Fan Inverter Fault
491023	Comm Loss: Free Cooling Dedicated Fan Inverter Speed Command
491013	Comm Loss: Free Cooling Glycol Flow Switch
491015	Comm Loss: Free Cooling Glycol Pressure
491018	Comm Loss: Free Cooling Glycol Pump Fault
491009	Comm Loss: Free Cooling Pump
491003	Comm Loss: Free Cooling Valve
481011	Comm Loss: Heat Recovery Mode Valve Command - Ckt1
481012	Comm Loss: Heat Recovery Mode Valve Command - Ckt2
481009	Comm Loss: Heat Recovery Water Flow Cmd
481010	Comm Loss: Heat Recovery Water Flow Cmd
481005	Comm Loss: Heat Recovery Water Flow Switch
361021	Comm Loss: High Pressure Cutout Sw - 1A
362021	Comm Loss: High Pressure Cutout Sw - 1B
371021	Comm Loss: High Pressure Cutout Sw - 2A
372021	Comm Loss: High Pressure Cutout Sw - 2B
361020	Comm Loss: Hot Gas Oil Return Valve - 1A
371020	Comm Loss: Hot Gas Oil Return Valve - 2A
481001	Comm Loss: HR Entering Water Temp Sensor
481003	Comm Loss: HR Leaving Water Temp Sensor
171002	Comm Loss: Ice Building Status Relay
41007	Comm Loss: Liquid Line Pressure - Circuit 1
42007	Comm Loss: Liquid Line Pressure - Circuit 2
41003	Comm Loss: Liquid Line Temperature - Circuit 1
42003	Comm Loss: Liquid Line Temperature - Circuit 2
381002	Comm Loss: Motor Winding Tstat Cprsr1A
391002	Comm Loss: Motor Winding Tstat Cprsr2A
61003	Comm Loss: Off-cycle Freeze Prot Relay
41012	Comm Loss: Oil Loss Level Sensor Input - Circuit 1
42012	Comm Loss: Oil Loss Level Sensor Input - Circuit 2



Diagnostic Code (decimal)	Diagnostic Name
361008	Comm Loss: Oil Pressure - 1A
362008	Comm Loss: Oil Pressure - 1B
371008	Comm Loss: Oil Pressure - 2A
372008	Comm Loss: Oil Pressure - 2B
362020	Comm Loss: Oil Return Solenoid Valve - 1B
372020	Comm Loss: Oil Return Solenoid Valve - 2B
41043	Comm Loss: Oil Return Valve - Circuit 1
42043	Comm Loss: Oil Return Valve - Circuit 2
41044	Comm Loss: Oil Supply Temperature - Circuit 1
42044	Comm Loss: Oil Supply Temperature - Circuit 2
361019	Comm Loss: Oil Temperature - 1A
362019	Comm Loss: Oil Temperature - 1B
371019	Comm Loss: Oil Temperature - 2A
372019	Comm Loss: Oil Temperature - 2B
21001	Comm Loss: Outdoor Air Temperature
81007	Comm Loss: Programmable Relay Board 1
81016	Comm Loss: Programmable Relay Board 2
341005	Comm Loss: Slide Valve Load - 1A
342005	Comm Loss: Slide Valve Load - 1B
351005	Comm Loss: Slide Valve Load - 2A
352005	Comm Loss: Slide Valve Load - 2B
341006	Comm Loss: Slide Valve Unload - 1A
342006	Comm Loss: Slide Valve Unload - 1B
351006	Comm Loss: Slide Valve Unload - 2A
352006	Comm Loss: Slide Valve Unload - 2B
401002	Comm Loss: Starter 1A
402002	Comm Loss: Starter 1B
411002	Comm Loss: Starter 2A
412002	Comm Loss: Starter 2B
341004	Comm Loss: Step Load - 1A
342004	Comm Loss: Step Load - 1B
351004	Comm Loss: Step Load - 2A
352004	Comm Loss: Step Load - 2B



Diagnostic Code (decimal)	Diagnostic Name
341015	Comm Loss: Suction Rfgt Pressure - 1A
342015	Comm Loss: Suction Rfgt Pressure - 1B
351015	Comm Loss: Suction Rfgt Pressure - 2A
352015	Comm Loss: Suction Rfgt Pressure - 2B
341022	Comm Loss: Var Vi Valve – Cprsr1A
351022	Comm Loss: Var Vi Valve – Cprsr2A
381163	Comm Loss: Winding Temp 1, Cprsr1A
391163	Comm Loss: Winding Temp 1, Cprsr2A
381164	Comm Loss: Winding Temp 2, Cprsr1A
391164	Comm Loss: Winding Temp 2, Cprsr2A
41005	Condenser Rfgt Pressure Sensor - Circuit 1
42005	Condenser Rfgt Pressure Sensor - Circuit 2
401021	Cprsr Did Not Accel: Shutdown - 1A
402021	Cprsr Did Not Accel: Shutdown - 1B
411021	Cprsr Did Not Accel: Shutdown - 2A
412021	Cprsr Did Not Accel: Shutdown - 2B
401022	Cprsr Did Not Accel: Transition - 1A
402022	Cprsr Did Not Accel: Transition - 1B
411022	Cprsr Did Not Accel: Transition - 2A
412022	Cprsr Did Not Accel: Transition - 2B
361007	Cprsr Disch Rfgt Temp Sensor - 1A
362007	Cprsr Disch Rfgt Temp Sensor - 1B
371007	Cprsr Disch Rfgt Temp Sensor - 2A
372007	Cprsr Disch Rfgt Temp Sensor - 2B
341024	Drive Cooling Supply Temp Sensor - 1A
351024	Drive Cooling Supply Temp Sensor - 2A
341021	Economizer Disch Press Sensor - 1A
342021	Economizer Disch Press Sensor - 1B
351021	Economizer Disch Press Sensor - 2A
352021	Economizer Disch Press Sensor - 2B
341019	Economizer Disch Temp Sensor - 1A
342019	Economizer Disch Temp Sensor - 1B
351019	Economizer Disch Temp Sensor - 2A



Diagnostic Code (decimal)	Diagnostic Name
352019	Economizer Disch Temp Sensor - 2B
81003	Emergency Stop Feedback Input
41024	Evap Iso Valve Illegal Switch State - Circuit 1
42024	Evap Iso Valve Illegal Switch State - Circuit 2
41023	Evap Isolation Valve Closed Switch Failure - Circuit 1
42023	Evap Isolation Valve Closed Switch Failure - Circuit 2
41021	Evap Isolation Valve Failed To Close - Circuit 1
42021	Evap Isolation Valve Failed To Close - Circuit 2
41020	Evap Isolation Valve Failed To Open - Circuit 1
42020	Evap Isolation Valve Failed To Open - Circuit 2
41022	Evap Isolation Valve Open Switch Failure - Circuit 1
42022	Evap Isolation Valve Open Switch Failure - Circuit 2
441026	Evap Pump 1 Starts Run time Written
441027	Evap Pump 2 Starts Run time Written
41018	Evap Rfgt Pool Temp Sensor - Circuit 1
42018	Evap Rfgt Pool Temp Sensor - Circuit 2
41028	Evap Rfgt Pool Temp Sensor Error - Circuit 1
42028	Evap Rfgt Pool Temp Sensor Error - Circuit 2
331004	Evap Water Pump 1 Svc Recommended
331005	Evap Water Pump 2 Svc Recommended
101006	Evaporator Approach Error - Circuit 1
102006	Evaporator Approach Error - Circuit 2
231018	Evaporator Diff Water Pressure Xdcr
231019	Evaporator Entering Water Pressure
231002	Evaporator Entering Water Temp Sensor
231020	Evaporator Leaving Water Pressure
231004	Evaporator Leaving Water Temp Sensor
441007	Evaporator Pump 1 Fault
441008	Evaporator Pump 2 Fault
111004	Evaporator Water Flow Lost
441003	Evaporator Water Flow Lost - Pump1
441004	Evaporator Water Flow Lost - Pump2
111003	Evaporator Water Flow Overdue



Diagnostic Code (decimal)	Diagnostic Name
441005	Evaporator Water Flow Overdue - Pump1
441006	Evaporator Water Flow Overdue - Pump2
61008	Evaporator Water Pump Fault
61009	Evaporator Water Pump Speed Feedback
141005	Excessive Condenser Pressure - Circuit 1
142005	Excessive Condenser Pressure - Circuit 2
81005	External Chilled Water Setpoint
81008	External Demand Limit Setpoint
481008	External Heat Recovery Setpoint
251003	Fan Inverter Fault - Circuit 1
252003	Fan Inverter Fault - Circuit 2
491025	Free Cooling Dedicated Fan Inverter Fault
491006	Free Cooling Entering Glycol Temperature
491002	Free Cooling Entering Water Temperature
491020	Free Cooling Glycol Flow Lost
491012	Free Cooling Glycol Flow Overdue
491016	Free Cooling Glycol Pressure
491019	Free Cooling Glycol Pump Fault
491011	Free Cooling Glycol Temperature Equalization Overdue
491008	Free Cooling Leaving Glycol Temperature
481002	Heat Recovery Entering Water Temp Sensor
481004	Heat Recovery Leaving Water Temp Sensor
481013	Heat Recovery Water Flow Lost
481014	Heat Recovery Water Flow Overdue
361017	High Cprsr Rfgt Discharge Temp - 1A
362017	High Cprsr Rfgt Discharge Temp - 1B
371017	High Cprsr Rfgt Discharge Temp - 2A
372017	High Cprsr Rfgt Discharge Temp - 2B
361023	High Differential Rfgt Pressure - 1A
362023	High Differential Rfgt Pressure - 1B
371023	High Differential Rfgt Pressure - 2A
372023	High Differential Rfgt Pressure - 2B
111001	High Evaporator Refrigerant Pressure



Diagnostic Code (decimal)	Diagnostic Name
111002	High Evaporator Water Temperature
381003	High Motor Winding Temperature - 1A
391003	High Motor Winding Temperature - 2A
361005	High Oil Temperature - 1A
362005	High Oil Temperature - 1B
371005	High Oil Temperature - 2A
372005	High Oil Temperature - 2B
361022	High Pressure Cutout - 1A
362022	High Pressure Cutout - 1B
371022	High Pressure Cutout - 2A
372022	High Pressure Cutout - 2B
361024	High Refrigerant Pressure Ratio - 1A
362024	High Refrigerant Pressure Ratio - 1B
371024	High Refrigerant Pressure Ratio - 2A
372024	High Refrigerant Pressure Ratio - 2B
231008	Inverted Evaporator Water Temperature
41015	Liquid Line Pressure Sensor - Circuit 1
42015	Liquid Line Pressure Sensor - Circuit 2
41016	Liquid Line Temp Sensor - Circuit 1
42016	Liquid Line Temp Sensor - Circuit 2
101009	Loss of Oil for Compressor (Running) - Circuit 1
102009	Loss of Oil for Compressor (Running) - Circuit 2
101008	Loss of Oil for Compressor (Stopped) - Circuit 1
102008	Loss of Oil for Compressor (Stopped) - Circuit 2
361002	Low Differential Rfgt Pressure - 1A
362002	Low Differential Rfgt Pressure - 1B
371002	Low Differential Rfgt Pressure - 2A
372002	Low Differential Rfgt Pressure - 2B
361011	Low Discharge Superheat - 1A
362011	Low Discharge Superheat - 1B
371011	Low Discharge Superheat - 2A
372011	Low Discharge Superheat - 2B
361025	Low Drive Cooling Supply Temperature - 1A



Diagnostic Code (decimal)	Diagnostic Name
371025	Low Drive Cooling Supply Temperature - 2A
231024	Low Evaporator Entering Water Pressure
231025	Low Evaporator Leaving Water Pressure
101005	Low Evaporator Rfght Temp: Unit Off - Circuit 1
102005	Low Evaporator Rfght Temp: Unit Off - Circuit 2
231023	Low Evaporator Water Flow
231006	Low Evaporator Water Temp (Unit Off)
231005	Low Evaporator Water Temp (Unit On)
491017	Low Glycol Pressure Free Cooling
491010	Low Glycol Temp Free Cooling
361004	Low Oil Flow - 1A
362004	Low Oil Flow - 1B
371004	Low Oil Flow - 2A
372004	Low Oil Flow - 2B
101001	Low Refrigerant Temperature - Circuit 1
102001	Low Refrigerant Temperature - Circuit 2
361026	Low Suction Refrigerant Pressure - 1A
362026	Low Suction Refrigerant Pressure - 1B
371026	Low Suction Refrigerant Pressure - 2A
372026	Low Suction Refrigerant Pressure - 2B
331006	Mfr Maintenance Recommended - 1A
331007	Mfr Maintenance Recommended - 1B
332006	Mfr Maintenance Recommended - 2A
332007	Mfr Maintenance Recommended - 2B
401019	Momentary Power Loss
411019	Momentary Power Loss
401020	Motor Current Overload - 1A
402020	Motor Current Overload - 1B
411020	Motor Current Overload - 2A
412020	Motor Current Overload - 2B
381174	Motor Winding Temp Sensor - 1A
391174	Motor Winding Temp Sensor - 2A
1001	MP: Invalid Configuration



Diagnostic Code (decimal)	Diagnostic Name
1006	MP: Reset Has Occurred
361001	No Differential Rfgt Pressure - 1A
362001	No Differential Rfgt Pressure - 1B
371001	No Differential Rfgt Pressure - 2A
372001	No Differential Rfgt Pressure - 2B
331002	Oil Filter Change Recommended - Cprsr1A
332002	Oil Filter Change Recommended - Cprsr2A
361003	Oil Flow Protection Fault - 1A
362003	Oil Flow Protection Fault - 1B
371003	Oil Flow Protection Fault - 2A
372003	Oil Flow Protection Fault - 2B
361009	Oil Pressure Sensor - 1A
362009	Oil Pressure Sensor - 1B
371009	Oil Pressure Sensor - 2A
372009	Oil Pressure Sensor - 2B
41045	Oil Supply Temp Sensor - Circuit 1
42045	Oil Supply Temp Sensor - Circuit 2
361018	Oil Temperature Sensor - 1A
362018	Oil Temperature Sensor - 1B
371018	Oil Temperature Sensor - 2A
372018	Oil Temperature Sensor - 2B
21002	Outdoor Air Temperature Sensor
401028	Over Voltage
401015	Phase Loss - 1A
402015	Phase Loss - 1B
411015	Phase Loss - 2A
412015	Phase Loss - 2B
401016	Phase Reversal - 1A
402016	Phase Reversal - 1B
411016	Phase Reversal - 2A
412016	Phase Reversal - 2B
401018	Power Loss - 1A
402018	Power Loss - 1B





Diagnostic Code (decimal)	Diagnostic Name
411018	Power Loss - 2A
412018	Power Loss - 2B
41004	Pumpdown Terminated By Time - Circuit 1
42004	Pumpdown Terminated By Time - Circuit 2
381001	Restart Inhibit Invoked - 1A
382001	Restart Inhibit Invoked - 1B
391001	Restart Inhibit Invoked - 2A
392001	Restart Inhibit Invoked - 2B
401017	Severe Current Imbalance - 1A
402017	Severe Current Imbalance - 1B
411017	Severe Current Imbalance - 2A
412017	Severe Current Imbalance - 2B
21003	Software Error 1001: Call Trane Service
21004	Software Error 1002: Call Trane Service
21005	Software Error 1003: Call Trane Service
401010	Starter Comm Loss: Main Processor - 1A
402010	Starter Comm Loss: Main Processor - 1B
411010	Starter Comm Loss: Main Processor - 2A
412010	Starter Comm Loss: Main Processor - 2B
401032	Starter Contactor Interrupt Failure - 1A
402032	Starter Contactor Interrupt Failure - 1B
411032	Starter Contactor Interrupt Failure - 2A
412032	Starter Contactor Interrupt Failure - 2B
401030	Starter Did Not Fully Accelerate
401009	Starter Did Not Transition - 1A
402009	Starter Did Not Transition - 1B
411009	Starter Did Not Transition - 2A
411030	Starter Did Not Transition - 2A
412009	Starter Did Not Transition - 2B
401026	Starter Dry Run Test - 1A
402026	Starter Dry Run Test - 1B
411026	Starter Dry Run Test - 2A
412026	Starter Dry Run Test - 2B



Diagnostic Code (decimal)	Diagnostic Name
401001	Starter Failed to Arm/Start - 1A
402001	Starter Failed to Arm/Start - 1B
411001	Starter Failed to Arm/Start - 2A
412001	Starter Failed to Arm/Start - 2B
401011	Starter Fault Type I - 1A
402011	Starter Fault Type I - 1B
411011	Starter Fault Type I - 2A
412011	Starter Fault Type I - 2B
401012	Starter Fault Type II - 1A
402012	Starter Fault Type II - 1B
411012	Starter Fault Type II - 2A
412012	Starter Fault Type II - 2B
401013	Starter Fault Type III - 1A
402013	Starter Fault Type III - 1B
411013	Starter Fault Type III - 2A
412013	Starter Fault Type III - 2B
401024	Starter Module Memory Error Type 1 - 1A
402024	Starter Module Memory Error Type 1 - 1B
411024	Starter Module Memory Error Type 1 - 2A
412024	Starter Module Memory Error Type 1 - 2B
401025	Starter Module Memory Error Type 2 - 1A
402025	Starter Module Memory Error Type 2 - 1B
411025	Starter Module Memory Error Type 2 - 2A
412025	Starter Module Memory Error Type 2 - 2B
341003	Starts/Hours Modified 1A
342003	Starts/Hours Modified 1B
351003	Starts/Hours Modified 2A
352003	Starts/Hours Modified 2B
341016	Suction Refrigerant Pressure Sensor - 1A
342016	Suction Refrigerant Pressure Sensor - 1B
351016	Suction Refrigerant Pressure Sensor - 2A
352016	Suction Refrigerant Pressure Sensor - 2B
401023	Transition Complete Input Opened - 1A



Diagnostic Code (decimal)	Diagnostic Name
402023	Transition Complete Input Opened - 1B
411023	Transition Complete Input Opened - 2A
412023	Transition Complete Input Opened - 2B
401014	Transition Complete Input Shorted - 1A
402014	Transition Complete Input Shorted - 1B
411014	Transition Complete Input Shorted - 2A
412014	Transition Complete Input Shorted - 2B
401027	Under Voltage
401005	Unexpected Starter Shutdown - 1A
402005	Unexpected Starter Shutdown - 1B
411005	Unexpected Starter Shutdown - 2A
412005	Unexpected Starter Shutdown - 2B
361012	Very Low Evap Rfgt Pressure - 1A
362012	Very Low Evap Rfgt Pressure - 1B
371012	Very Low Evap Rfgt Pressure - 2A
372012	Very Low Evap Rfgt Pressure - 2B
21010	Write Command Failure Energy Meter 1
21011	Write Command Failure Energy Meter 2