



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.

Symbio™ 800 Integration Point List

BACnet®

Ascend™ Models ACS and ACX

Date: 11/15/2024

Reference Document: BAS-SVP083*-EN



Object Identifier	Object Name	Units	Configuration Dependency
AI-10100	Active Cool/Heat Setpoint Temperature	Temperature	Standard
AI-10101	Evaporator Leaving Water Temperature	Temperature	Standard
AI-10102	Evaporator Entering Water Temperature	Temperature	Standard
AI-10103	Active Demand Limit Setpoint	Percentage	Ice Building = Not Installed
AI-10104	Unit Power Consumption	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
AI-10105	Outdoor Air Temperature	Temperature	Standard
AI-10106	Evaporator Refrigerant Pressure Circuit 1	Pressure, Fluidic	Standard
AI-10107	Condenser Refrigerant Pressure Circuit 1	Pressure, Fluidic	Standard
AI-10108	Differential Refrigerant Pressure Circuit 1	Pressure, Fluidic	Standard
AI-10109	Evaporator Saturated Rfgt Temp Circuit 1	Temperature	Standard
AI-10110	Condenser Saturated Rfgt Temp Circuit 1	Temperature	Standard
AI-10111	Evaporator Refrigerant Pressure Circuit 2	Pressure, Fluidic	Standard
AI-10112	Condenser Refrigerant Pressure Circuit 2	Pressure, Fluidic	Standard
AI-10113	Differential Refrigerant Pressure Circuit 2	Pressure, Fluidic	Standard
AI-10114	Evaporator Saturated Rfgt Temp Circuit 2	Temperature	Standard
AI-10115	Condenser Saturated Rfgt Temp Circuit 2	Temperature	Standard
AI-10116	Actual Running Capacity	Percentage	Standard
AI-10117	Active Heat Recovery Setpoint	Temperature	Total Heat Recovery
AI-10118	Active Hot Water Setpoint	Temperature	Hot Water Control (Heat Pump)
AI-10119	Air Flow Circuit 1	Percentage	Standard
AI-10120	Air Flow Circuit 2	Percentage	Standard
AI-10121	Starts Cprsr1A	No Units	Standard
AI-10122	Running Time Cprsr1A	No Units	Standard
AI-10123	Starts Cprsr2A	No Units	Standard
AI-10124	Running Time Cprsr2A	No Units	Standard
AI-10125	Heat Recovery Entering Water Temp	Temperature	Total Heat Recovery Partial Heat Recovery
AI-10126	Heat Recovery Leaving Water Temp	Temperature	Total Heat Recovery Partial Heat Recovery
AI-10127	Chiller Design Capacity	Power, Cooling	Standard
AI-10128	Starts Cprsr1B	No Units	Standard
AI-10129	Running Time Cprsr1B	No Units	Standard
AI-10130	Starts Cprsr2B	No Units	Standard
AI-10131	Running Time Cprsr2B	No Units	Standard
AI-10132	Number Of Circuits	No Units	Standard



Object Identifier	Object Name	Units	Configuration Dependency
AI-10133	Number of Compressors for Circuit 1	No Units	Standard
AI-10134	Number of Compressors for Circuit 2	No Units	Standard
AI-10135	Free Cooling Capacity	Percentage	Free Cooling
AI-10136	Free Cooling Entering Water Temperature	Temperature	Free Cooling
AI-10137	Free Cooling Entering Glycol Temperature	Temperature	Free Cooling
AI-10138	Free Cooling Leaving Glycol Temperature	Temperature	Free Cooling
AI-10139	Energy Consumption NonReset	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
AI-10140	Energy Consumption Resettable	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
AI-10141	Starts Cprsr1C	No Units	Circuit 1 = 3 compressors
AI-10142	Running Time Cprsr1C	No Units	Circuit 1 = 3 compressors
AI-10143	Starts Cprsr2C	No Units	Circuit 2 = 3 compressors
AI-10144	Running Time Cprsr2C	No Units	Circuit 2 = 3 compressors
AI-10145	Estimated Discharge Temperature Circuit 1	Temperature	Discharge Temp Sensor = Not Installed
AI-10146	Estimated Discharge Temperature Circuit 2	Temperature	Discharge Temp Sensor = Not Installed
AI-10147	Compressor Discharge Temperature Circuit 1	Temperature	Discharge Temp Sensor = Installed
AI-10148	Compressor Discharge Temperature Circuit 2	Temperature	Discharge Temp Sensor = Installed
AI-10149	Free Cooling Glycol Pressure	Pressure, Fluidic	Free Cooling
AI-10150	Last Logged Diagnostic	No Units	Standard
AI-10151	Unit Load Command	Percentage	Standard
AI-10152	Average Line Current	Current	Energy Meter - Schneider Modbus
AI-10153	Average Line Voltage	Voltage	Energy Meter - Schneider Modbus
AI-10154	Current L1	Current	Energy Meter - Schneider Modbus
AI-10155	Current L2	Current	Energy Meter - Schneider Modbus
AI-10156	Current L3	Current	Energy Meter - Schneider Modbus
AI-10157	Voltage L1-L2	Voltage	Energy Meter - Schneider Modbus
AI-10158	Voltage L2-L3	Voltage	Energy Meter - Schneider Modbus
AI-10159	Voltage L1-L3	Voltage	Energy Meter - Schneider Modbus
AI-10160	Total Real Power	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
AI-10161	Line Frequency	No Units	Energy Meter - Schneider Modbus
AI-10162	Power Factor	No Units	Energy Meter - Schneider Modbus
AI-10163	Heat Recovery Valve Position	Percentage	Total Heat Recovery
AI-10164	Evaporator Refrigerant Absolute Pressure Circuit 1	Pressure, Fluidic	Standard
AI-10165	Condenser Refrigerant Absolute Pressure Circuit 1	Pressure, Fluidic	Standard

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Object Identifier	Object Name	Units	Configuration Dependency
AI-10166	Evaporator Refrigerant Absolute Pressure Circuit 2	Pressure, Fluidic	Standard
AI-10167	Condenser Refrigerant Absolute Pressure Circuit 2	Pressure, Fluidic	Standard
AI-10168	Free Cooling Glycol Absolute Pressure	Pressure, Fluidic	Free Cooling
AI-10169	Supplemental Heater Status	Percentage	Supplemental Heater
AI-10170	Evaporator Approach Temperature Circuit 1 (Cooling Mode Only)	Temperature	Standard
AI-10171	Evaporator Approach Temperature Circuit 2 (Cooling Mode Only)	Temperature	Standard
AI-10172	Condenser Approach Temperature Circuit 1 (Heating Mode Only)	Temperature	Standard
AI-10173	Condenser Approach Temperature Circuit 2 (Heating Mode Only)	Temperature	Standard
AI-10174	Active Chilled Water Setpoint	Temperature	Standard
AI-10175	Chilled Water Setpoint Status	Temperature	Standard
AI-10176	Hot Water Setpoint Status	Temperature	Hot Water Control (Heat Pump)
AI-10177	Demand Limit Setpoint Status	Percentage	Ice Building
AI-10178	Active Demand Limit Setpoint	Percentage	Ice Building

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Object Identifier	Object Name	Units	Configuration Dependency
AV-10100	Chilled Water Setpoint	Temperature	Standard
AV-10101	Demand Limit Setpoint	Percentage	Standard
AV-10102	BAS Hot Water Setpoint	Temperature	Hot Water Control (Heat Pump)
AV-10103	BAS Heat Recovery Setpoint	Temperature	Total Heat Recovery Partial Heat Recovery
AV-10104	Evaporator Water Pump Speed Setpoint	Percentage	Variable Speed Evaporator Pump

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Object Identifier	Object Name	Object States	Configuration Dependency
BI-10100	Limit Mode Relay Status	0 = Auto 1 = On	Standard
BI-10101	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
BI-10102	Manual Override Exists	0 = Off 1 = On	Standard
BI-10103	Run Enable	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10104	Local Setpoint Control	0 = Remote control 1 = Local control	Standard
BI-10105	Maximum Capacity Relay	0 = Off 1 = On	Standard
BI-10106	Running Status Cprsr1A	0 = Off 1 = Running	Standard
BI-10107	Running Status Cprsr2A	0 = Off 1 = Running	Standard
BI-10108	Running Status Cprsr1B	0 = Off 1 = Running	Standard
BI-10109	Running Status Cprsr2B	0 = Off 1 = Running	Standard
BI-10110	Chiller Running State	0 = Off 1 = On	Standard
BI-10111	Running Status Cprsr1C	0 = Off 1 = Running	Circuit 1 = 3 compressors
BI-10112	Running Status Cprsr2C	0 = Off 1 = Running	Circuit 2 = 3 compressors
BI-10113	Free Cooling Active	0 = Inactive 1 = Active	Free Cooling
BI-10114	Heat Recovery Active	0 = Inactive 1 = Active	Total Heat Recovery
BI-10115	Front Panel Auto/Stop	0 = Stop 1 = Auto	Standard
BI-10116	Circuit Manual Reset Indicator (CMR) Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-10117	Circuit Manual Reset Indicator (CMR) Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-10118	Circuit Auto Reset Indicator (CAR) Circuit 1	0 = Normal 1 = In Alarm	Standard
BI-10119	Circuit Auto Reset Indicator (CAR) Circuit 2	0 = Normal 1 = In Alarm	Standard
BI-10120	Evaporator Water Pump Command	0 = Normal 1 = In Alarm	Standard
BI-10121	Evaporator Water Flow Status	0 = Normal 1 = In Alarm	Standard



Object Identifier	Object Name	Object States	Configuration Dependency
BI-10122	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard
BI-10123	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard
BI-10124	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard
BI-10125	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard
BI-10126	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
BI-10127	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
BI-10128	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10129	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10130	External Auto Stop	0 = Stop 1 = Auto	Standard
BI-10131	Noise Reduction Request Active	0 = Off 1 = On	Noise Reduction
BI-10132	Heat Recovery Request Active	0 = Off 1 = On	Total Heat Recovery
BI-10133	Evaporator Water Pump Status	0 = Off 1 = On	Standard
BI-10134	Circuit 1 Defrost Delay Status	0 = Off 1 = On	Hot Water Control (Heat Pump)
BI-10135	Circuit 2 Defrost Delay Status	0 = Off 1 = On	Hot Water Control (Heat Pump)
BI-10136	In Defrost	0 = Not in Defrost 1 = Defrost	Hot Water Control (Heat Pump)
BI-10137	Circuit 1 Defrost Status	0 = Inactive 1 = Active	Hot Water Control (Heat Pump)
BI-10138	Circuit 2 Defrost Status	0 = Inactive 1 = Active	Hot Water Control (Heat Pump)
BI-10139	Circuit 1 Running Status	0 = Off 1 = On	Standard
BI-10140	Circuit 2 Running Status	0 = Off 1 = On	Standard
BI-10141	Low Ambient Lockout Status	0 = No Lockout 1 = Lockout Present	Standard
BI-10142	Circuit 1 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10143	Circuit 2 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
BI-10144	Circuit 1 Lockout External	0 = Normal 1 = Locked Out	External Circuit Lockout

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Object Identifier	Object Name	Object States	Configuration Dependency
BI-10145	Circuit 2 Lockout External	0 = Normal 1 = Locked Out	External Circuit Lockout
BI-10146	Circuit 1 Lockout Active	0 = Normal 1 = Locked Out	Standard
BI-10147	Circuit 2 Lockout Active	0 = Normal 1 = Locked Out	Standard



Object Identifier	Diagnostic Name	Object States
BI - 11000	Comm Loss: Percent Capacity Output	0 = Normal 1 = In Alarm
BI - 11001	Comm Loss: Supplemental Heater Relay 1	0 = Normal 1 = In Alarm
BI - 11002	Comm Loss: Supplemental Heater Relay 2	0 = Normal 1 = In Alarm
BI - 11003	Comm Loss: Supplemental Heater Relay 3	0 = Normal 1 = In Alarm
BI - 11004	Comm Loss: Supplemental Heater Relay 4	0 = Normal 1 = In Alarm
BI - 11005	Comm Loss: Energy Meter	0 = Normal 1 = In Alarm
BI - 11006	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm
BI - 11007	Comm Loss: Phase Protection Fault Input	0 = Normal 1 = In Alarm
BI - 11008	Diagnostic: Energy Meter Write Command Failure	0 = Normal 1 = In Alarm
BI - 11009	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm
BI - 11010	Diagnostic: Phase Protection Fault	0 = Normal 1 = In Alarm
BI - 11011	Diagnostic: Software Error 1003: Call Trane Service	0 = Normal 1 = In Alarm
BI - 11012	Diagnostic: Pumpdown Terminated By Time - Circuit 2	0 = Normal 1 = In Alarm
BI - 11013	Diagnostic: Pumpdown Terminated By Time - Circuit 1	0 = Normal 1 = In Alarm
BI - 11014	Comm Loss: Discharge Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
BI - 11015	Comm Loss: Discharge Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
BI - 11016	Comm Loss: Discharge Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
BI - 11017	Comm Loss: Discharge Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
BI - 11018	Comm Loss: External Circuit 2 Lockout	0 = Normal 1 = In Alarm
BI - 11019	Comm Loss: External Circuit 1 Lockout	0 = Normal 1 = In Alarm
BI - 11020	Comm Loss: Reversing Valve - Circuit 1	0 = Normal 1 = In Alarm
BI - 11021	Comm Loss: Reversing Valve - Circuit 2	0 = Normal 1 = In Alarm
BI - 11022	Comm Loss: Suction Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11023	Comm Loss: Suction Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
BI - 11024	Comm Loss: Suction Temperature - Circuit 2	0 = Normal 1 = In Alarm
BI - 11025	Comm Loss: Suction Temperature - Circuit 1	0 = Normal 1 = In Alarm
BI - 11026	Diagnostic: Discharge Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
BI - 11027	Diagnostic: Discharge Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
BI - 11028	Diagnostic: Discharge Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
BI - 11029	Diagnostic: Discharge Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
BI - 11030	Diagnostic: Suction Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
BI - 11031	Diagnostic: Suction Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
BI - 11032	Diagnostic: Suction Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
BI - 11033	Diagnostic: Suction Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
BI - 11034	Comm Loss: Sump Heater - Circuit 1	0 = Normal 1 = In Alarm
BI - 11035	Comm Loss: Sump Heater - Circuit 2	0 = Normal 1 = In Alarm
BI - 11036	Diagnostic: High Compressor Pressure Differential - Circuit 2	0 = Normal 1 = In Alarm
BI - 11037	Diagnostic: High Compressor Pressure Differential - Circuit 1	0 = Normal 1 = In Alarm
BI - 11038	Diagnostic: High Discharge Refrigerant Pressure - Circuit 2	0 = Normal 1 = In Alarm
BI - 11039	Diagnostic: High Discharge Refrigerant Pressure - Circuit 1	0 = Normal 1 = In Alarm
BI - 11040	Diagnostic: High Discharge Temperature - Circuit 2	0 = Normal 1 = In Alarm
BI - 11041	Diagnostic: High Discharge Temperature - Circuit 1	0 = Normal 1 = In Alarm
BI - 11042	Diagnostic: High Discharge Temperature Lockout - Circuit 2	0 = Normal 1 = In Alarm
BI - 11043	Diagnostic: High Discharge Temperature Lockout - Circuit 1	0 = Normal 1 = In Alarm
BI - 11044	Diagnostic: Loss of Charge - Circuit 2	0 = Normal 1 = In Alarm
BI - 11045	Diagnostic: Loss of Charge - Circuit 1	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11046	Diagnostic: Low Discharge Saturated Temperature - Circuit 2	0 = Normal 1 = In Alarm
BI - 11047	Diagnostic: Low Discharge Saturated Temperature - Circuit 1	0 = Normal 1 = In Alarm
BI - 11048	Diagnostic: Low Refrigerant Pressure Ratio - Circuit 1	0 = Normal 1 = In Alarm
BI - 11049	Diagnostic: Low Refrigerant Pressure Ratio - Circuit 2	0 = Normal 1 = In Alarm
BI - 11050	Diagnostic: Low Refrigerant Temperature - Circuit 2	0 = Normal 1 = In Alarm
BI - 11051	Diagnostic: Low Refrigerant Temperature - Circuit 1	0 = Normal 1 = In Alarm
BI - 11052	Diagnostic: Low Suction Refrigerant Pressure - Circuit 2	0 = Normal 1 = In Alarm
BI - 11053	Diagnostic: Low Suction Refrigerant Pressure - Circuit 1	0 = Normal 1 = In Alarm
BI - 11054	Diagnostic: Low Suction Superheat - Circuit 2	0 = Normal 1 = In Alarm
BI - 11055	Diagnostic: Low Suction Superheat - Circuit 1	0 = Normal 1 = In Alarm
BI - 11056	Diagnostic: Suction Temperature Too High - Circuit 2	0 = Normal 1 = In Alarm
BI - 11057	Diagnostic: Suction Temperature Too High - Circuit 1	0 = Normal 1 = In Alarm
BI - 11058	Diagnostic: Very Low Suction Pressure - Circuit 1	0 = Normal 1 = In Alarm
BI - 11059	Diagnostic: Very Low Suction Pressure - Circuit 2	0 = Normal 1 = In Alarm
BI - 11060	Comm Loss: Compressor 1C Fault Input	0 = Normal 1 = In Alarm
BI - 11061	Comm Loss: Compressor 1B Fault Input	0 = Normal 1 = In Alarm
BI - 11062	Comm Loss: Compressor 1A Fault Input	0 = Normal 1 = In Alarm
BI - 11063	Diagnostic: Compressor 1A Fault	0 = Normal 1 = In Alarm
BI - 11064	Diagnostic: Compressor 1B Fault	0 = Normal 1 = In Alarm
BI - 11065	Diagnostic: Compressor 1C Fault	0 = Normal 1 = In Alarm
BI - 11066	Diagnostic: Compressor 1C Fault Lockout	0 = Normal 1 = In Alarm
BI - 11067	Diagnostic: Compressor 1B Fault Lockout	0 = Normal 1 = In Alarm
BI - 11068	Diagnostic: Compressor 1A Fault Lockout	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11069	Diagnostic: Starts/Hours Modified 1A	0 = Normal 1 = In Alarm
BI - 11070	Diagnostic: Starts/Hours Modified 1B	0 = Normal 1 = In Alarm
BI - 11071	Diagnostic: Starts/Hours Modified 1C	0 = Normal 1 = In Alarm
BI - 11072	Comm Loss: Compressor 2C Fault Input	0 = Normal 1 = In Alarm
BI - 11073	Comm Loss: Compressor 2B Fault Input	0 = Normal 1 = In Alarm
BI - 11074	Comm Loss: Compressor 2A Fault Input	0 = Normal 1 = In Alarm
BI - 11075	Diagnostic: Compressor 2A Fault	0 = Normal 1 = In Alarm
BI - 11076	Diagnostic: Compressor 2B Fault	0 = Normal 1 = In Alarm
BI - 11077	Diagnostic: Compressor 2C Fault	0 = Normal 1 = In Alarm
BI - 11078	Diagnostic: Compressor 2C Fault Lockout	0 = Normal 1 = In Alarm
BI - 11079	Diagnostic: Compressor 2B Fault Lockout	0 = Normal 1 = In Alarm
BI - 11080	Diagnostic: Compressor 2A Fault Lockout	0 = Normal 1 = In Alarm
BI - 11081	Diagnostic: Starts/Hours Modified 2B	0 = Normal 1 = In Alarm
BI - 11082	Diagnostic: Starts/Hours Modified 2C	0 = Normal 1 = In Alarm
BI - 11083	Diagnostic: Starts/Hours Modified 2A	0 = Normal 1 = In Alarm
BI - 11084	Comm Loss: High Pressure Cutout Switch - Circuit 2	0 = Normal 1 = In Alarm
BI - 11085	Comm Loss: High Pressure Cutout Switch - Circuit 1	0 = Normal 1 = In Alarm
BI - 11086	Diagnostic: High Pressure Cutout - Circuit 2	0 = Normal 1 = In Alarm
BI - 11087	Diagnostic: High Pressure Cutout - Circuit 1	0 = Normal 1 = In Alarm
BI - 11088	Comm Loss: Shared V Coil Isolating Valve - Circuit 1	0 = Normal 1 = In Alarm
BI - 11089	Comm Loss: Shared V Coil Isolating Valve - Circuit 2	0 = Normal 1 = In Alarm
BI - 11090	Comm Loss: Dynamic Receiver Fill Valve - Circuit 1	0 = Normal 1 = In Alarm
BI - 11091	Comm Loss: Dynamic Receiver Fill Valve - Circuit 2	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11092	Comm Loss: Hot Gas Bypass Valve - Circuit 1	0 = Normal 1 = In Alarm
BI - 11093	Comm Loss: Hot Gas Bypass Valve - Circuit 2	0 = Normal 1 = In Alarm
BI - 11094	Comm Loss: Liquid Line Pressure - Circuit 1	0 = Normal 1 = In Alarm
BI - 11095	Comm Loss: Liquid Line Pressure - Circuit 2	0 = Normal 1 = In Alarm
BI - 11096	Comm Loss: Liquid Line Temperature - Circuit 1	0 = Normal 1 = In Alarm
BI - 11097	Comm Loss: Liquid Line Temperature - Circuit 2	0 = Normal 1 = In Alarm
BI - 11098	Diagnostic: Liquid Line Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
BI - 11099	Diagnostic: Liquid Line Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
BI - 11100	Diagnostic: Liquid Line Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
BI - 11101	Diagnostic: Liquid Line Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
BI - 11102	Comm Loss: Evaporator Antifreeze Heater	0 = Normal 1 = In Alarm
BI - 11103	Comm Loss: Heat Recovery Antifreeze Heater	0 = Normal 1 = In Alarm
BI - 11104	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm
BI - 11105	Diagnostic: Evaporator Water Flow Lost Lockout	0 = Normal 1 = In Alarm
BI - 11106	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm
BI - 11107	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI - 11108	Diagnostic: High Suction Rfgt Pressure	0 = Normal 1 = In Alarm
BI - 11109	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI - 11110	Diagnostic: Inverted Water Temp (Heating)	0 = Normal 1 = In Alarm
BI - 11111	Diagnostic: Low Evaporator Water Temp (Unit On)	0 = Normal 1 = In Alarm
BI - 11112	Diagnostic: Low Evaporator Water Temp (Unit Off)	0 = Normal 1 = In Alarm
BI - 11113	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm
BI - 11114	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11115	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm
BI - 11116	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI - 11117	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI - 11118	Comm Loss: Cooling EXV - Circuit 1	0 = Normal 1 = In Alarm
BI - 11119	Comm Loss: Cooling EXV - Circuit 2	0 = Normal 1 = In Alarm
BI - 11120	Comm Loss: Electronic Expansion Valve - Circuit 2	0 = Normal 1 = In Alarm
BI - 11121	Comm Loss: Electronic Expansion Valve - Circuit 1	0 = Normal 1 = In Alarm
BI - 11122	Comm Loss: Heating EXV - Circuit 1	0 = Normal 1 = In Alarm
BI - 11123	Comm Loss: Heating EXV - Circuit 2	0 = Normal 1 = In Alarm
BI - 11124	Comm Loss: Auxiliary Setpoint Command	0 = Normal 1 = In Alarm
BI - 11125	Comm Loss: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI - 11126	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
BI - 11127	Comm Loss: Ext Noise Reduction Request	0 = Normal 1 = In Alarm
BI - 11128	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm
BI - 11129	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI - 11130	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm
BI - 11131	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm
BI - 11132	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm
BI - 11133	Diagnostic: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI - 11134	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
BI - 11135	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI - 11136	Comm Loss: Condenser Fan Enable - Circuit 2	0 = Normal 1 = In Alarm
BI - 11137	Comm Loss: Condenser Fan Enable - Circuit 1	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11138	Comm Loss: Cond Fan Enbl Shared Ckt 1&2	0 = Normal 1 = In Alarm
BI - 11139	Comm Loss: Condenser Fan Fault - Circuit 1	0 = Normal 1 = In Alarm
BI - 11140	Comm Loss: Condenser Fan Fault - Circuit 2	0 = Normal 1 = In Alarm
BI - 11141	Comm Loss: Fan Board 1 Relay 1 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11142	Comm Loss: Fan Board 1 Relay 1 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11143	Comm Loss: Fan Board 1 Relay 2 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11144	Comm Loss: Fan Board 1 Relay 2 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11145	Comm Loss: Fan Board 1 Relay 3 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11146	Comm Loss: Fan Board 1 Relay 3 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11147	Comm Loss: Fan Board 1 Relay 4 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11148	Comm Loss: Fan Board 1 Relay 4 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11149	Comm Loss: Fan Board 2 Relay 1 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11150	Comm Loss: Fan Board 2 Relay 1 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11151	Comm Loss: Fan Board 2 Relay 2 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11152	Comm Loss: Fan Board 2 Relay 2 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11153	Comm Loss: Fan Board 2 Relay 3 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11154	Comm Loss: Fan Board 2 Relay 3 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11155	Comm Loss: Fan Board 2 Relay 4 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11156	Comm Loss: Fan Board 2 Relay 4 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11157	Comm Loss: Fan Inverter Speed Command - Circuit 2	0 = Normal 1 = In Alarm
BI - 11158	Comm Loss: Fan Inverter Speed Command - Circuit 1	0 = Normal 1 = In Alarm
BI - 11159	Comm Loss: Fan Inv Spd Cmd, Shrd Circuit 1&2	0 = Normal 1 = In Alarm
BI - 11160	Comm Loss: Fan Speed Select Board Relay 1 - Circuit 1	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11161	Comm Loss: Fan Speed Select Board Relay 2 - Circuit 1	0 = Normal 1 = In Alarm
BI - 11162	Comm Loss: Fan Speed Select Board Relay 3 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11163	Comm Loss: Fan Speed Select Board Relay 4 - Circuit 2	0 = Normal 1 = In Alarm
BI - 11164	Diagnostic: Condenser Fan Fault - Circuit 1	0 = Normal 1 = In Alarm
BI - 11165	Diagnostic: Condenser Fan Fault - Circuit 2	0 = Normal 1 = In Alarm
BI - 11166	Comm Loss: FC Entering Glycol Temp	0 = Normal 1 = In Alarm
BI - 11167	Comm Loss: FC Entering Water Temp	0 = Normal 1 = In Alarm
BI - 11168	Comm Loss: FC Leaving Glycol Temp	0 = Normal 1 = In Alarm
BI - 11169	Comm Loss: Free Cooling Glycol Flow Switch	0 = Normal 1 = In Alarm
BI - 11170	Comm Loss: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
BI - 11171	Comm Loss: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
BI - 11172	Comm Loss: Free Cooling Pump	0 = Normal 1 = In Alarm
BI - 11173	Comm Loss: Free Cooling Valve	0 = Normal 1 = In Alarm
BI - 11174	Diagnostic: Free Cooling Entering Glycol Temperature	0 = Normal 1 = In Alarm
BI - 11175	Diagnostic: Free Cooling Entering Water Temperature	0 = Normal 1 = In Alarm
BI - 11176	Diagnostic: Free Cooling Glycol Flow Lost	0 = Normal 1 = In Alarm
BI - 11177	Diagnostic: Free Cooling Glycol Flow Overdue	0 = Normal 1 = In Alarm
BI - 11178	Diagnostic: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
BI - 11179	Diagnostic: Free Cooling Glycol Temperature Equalization Overdue	0 = Normal 1 = In Alarm
BI - 11180	Diagnostic: Free Cooling Leaving Glycol Temperature	0 = Normal 1 = In Alarm
BI - 11181	Diagnostic: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
BI - 11182	Diagnostic: Low Glycol Pressure Free Cooling	0 = Normal 1 = In Alarm
BI - 11183	Diagnostic: Low Glycol Temp Free Cooling	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11184	Comm Loss: External Heat Recovery Command	0 = Normal 1 = In Alarm
BI - 11185	Comm Loss: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
BI - 11186	Comm Loss: Heat Rec Rfgt Bypass Valve Circuit 1	0 = Normal 1 = In Alarm
BI - 11187	Comm Loss: Heat Rec Rfgt Bypass Valve Circuit 2	0 = Normal 1 = In Alarm
BI - 11188	Comm Loss: HR Entering Water Temperature	0 = Normal 1 = In Alarm
BI - 11189	Comm Loss: HR Leaving Water Temperature	0 = Normal 1 = In Alarm
BI - 11190	Comm Loss: Heat Recovery Three Way Valve	0 = Normal 1 = In Alarm
BI - 11191	Diagnostic: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
BI - 11192	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI - 11193	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI - 11194	Diagnostic: No Heat Recovery	0 = Normal 1 = In Alarm
BI - 11195	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm
BI - 11196	Diagnostic: Restart Inhibit Invoked - 1A	0 = Normal 1 = In Alarm
BI - 11197	Diagnostic: Restart Inhibit Invoked - 1B	0 = Normal 1 = In Alarm
BI - 11198	Diagnostic: Restart Inhibit Invoked - 1C	0 = Normal 1 = In Alarm
BI - 11199	Diagnostic: Restart Inhibit Invoked - 2A	0 = Normal 1 = In Alarm
BI - 11200	Diagnostic: Restart Inhibit Invoked - 2B	0 = Normal 1 = In Alarm
BI - 11201	Diagnostic: Restart Inhibit Invoked - 2C	0 = Normal 1 = In Alarm
BI - 11202	Comm Loss: Energy Meter Pulse Input	0 = Normal 1 = In Alarm
BI - 11203	Comm Loss: Run Command Compressor 1A	0 = Normal 1 = In Alarm
BI - 11204	Comm Loss: Run Command Compressor 1B	0 = Normal 1 = In Alarm
BI - 11205	Comm Loss: Run Command Compressor 1C	0 = Normal 1 = In Alarm
BI - 11206	Comm Loss: Run Command Compressor 2A	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11207	Comm Loss: Run Command Compressor 2B	0 = Normal 1 = In Alarm
BI - 11208	Comm Loss: Run Command Compressor 2C	0 = Normal 1 = In Alarm
BI - 11209	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm
BI - 11210	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm
BI - 11211	Comm Loss: Evap Pump Inv1 Fault Input	0 = Normal 1 = In Alarm
BI - 11212	Comm Loss: Evap Pump Inv1 Freq Feedback	0 = Normal 1 = In Alarm
BI - 11213	Comm Loss: Evap Pump Inv1 Run Command	0 = Normal 1 = In Alarm
BI - 11214	Comm Loss: Evaporator Pump 2 Fault Input	0 = Normal 1 = In Alarm
BI - 11215	Comm Loss: Evaporator Water Pump 1 Relay	0 = Normal 1 = In Alarm
BI - 11216	Comm Loss: Evaporator Water Pump 2 Relay	0 = Normal 1 = In Alarm
BI - 11217	Comm Loss: Evaporator Pump 1 Fault Input	0 = Normal 1 = In Alarm
BI - 11218	Diagnostic: Evap Pump 1 Starts Run time Written	0 = Normal 1 = In Alarm
BI - 11219	Diagnostic: Evap Pump 2 Starts Run time Written	0 = Normal 1 = In Alarm
BI - 11220	Diagnostic: Evaporator Pump 1 Fault	0 = Normal 1 = In Alarm
BI - 11221	Diagnostic: Evaporator Pump 2 Fault	0 = Normal 1 = In Alarm
BI - 11222	Diagnostic: Evaporator Water Flow Lost - Pump1	0 = Normal 1 = In Alarm
BI - 11223	Diagnostic: Evaporator Water Flow Lost - Pump2	0 = Normal 1 = In Alarm
BI - 11224	Diagnostic: Evaporator Water Flow Overdue - Pump1	0 = Normal 1 = In Alarm
BI - 11225	Diagnostic: Evaporator Water Flow Overdue - Pump2	0 = Normal 1 = In Alarm
BI - 11226	Comm Loss: SLHX Entering Refrigerant Temp - Circuit 1	0 = Normal 1 = In Alarm
BI - 11227	Comm Loss: SLHX Entering Refrigerant Temp - Circuit 2	0 = Normal 1 = In Alarm
BI - 11228	Comm Loss: SLHX Valve - Circuit 1	0 = Normal 1 = In Alarm
BI - 11229	Comm Loss: SLHX Valve - Circuit 2	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
BI - 11230	Diagnostic: SLHX Entering Temp Sensor - Circuit 1	0 = Normal 1 = In Alarm
BI - 11231	Diagnostic: SLHX Entering Temp Sensor - Circuit 2	0 = Normal 1 = In Alarm
BI - 11232	Diagnostic: Chiller Service Recommended	0 = Normal 1 = In Alarm
BI - 11233	Diagnostic: Evap Water Pump 1 Svc Recommended	0 = Normal 1 = In Alarm
BI - 11234	Diagnostic: Evap Water Pump 2 Svc Recommended	0 = Normal 1 = In Alarm
BI - 11235	Diagnostic: Mfr Maintenance Recommended - 1A	0 = Normal 1 = In Alarm
BI - 11236	Diagnostic: Mfr Maintenance Recommended - 1B	0 = Normal 1 = In Alarm
BI - 11237	Diagnostic: Mfr Maintenance Recommended - 1C	0 = Normal 1 = In Alarm
BI - 11238	Diagnostic: Mfr Maintenance Recommended - 2A	0 = Normal 1 = In Alarm
BI - 11239	Diagnostic: Mfr Maintenance Recommended - 2B	0 = Normal 1 = In Alarm
BI - 11240	Diagnostic: Mfr Maintenance Recommended - 2C	0 = Normal 1 = In Alarm
BI - 11241	Diagnostic: Evaporator Water Flow Too Low	0 = Normal 1 = In Alarm
BI - 11242	Comm Loss: Evap Water Pump Inverter Speed	0 = Normal 1 = In Alarm
BI - 11243	Energy Meter Write Value Failure	0 = Normal 1 = In Alarm

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Object Identifier	Object Name	Object States	Configuration Dependency
BV-10100	Reset Diagnostic	0 = Normal 1 = Reset	Standard
BV-10101	BAS Noise Reduction Request	0 = Normal 1 = Reduce Noise	Noise Reduction
BV-10102	BAS Heat Recovery Command	0 = Off 1 = On	Total Heat Recovery Partial Heat Recovery
BV-10103	Energy Consumption Reset	0 = Accumulating 1 = Reset	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
BV-10104	BAS Circuit 1 Lockout	0 = Normal 1 = Locked Out	Standard
BV-10105	BAS Circuit 2 Lockout	0 = Normal 1 = Locked Out	Standard
BV-10106	BAS Free Cooling Auto Stop Command	0 = Stop 1 = Auto	Free Cooling
BV-10107	BAS Chiller Auto Stop Command	0 = Stop 1 = Auto	Standard
BV-10108	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
BV-10109	Defrost Delay Request BAS	0 = Off 1 = On	Hot Water Control (Heat Pump)

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Object Identifier	Object Name	Object States	Configuration Dependency
MI-10100	Running Mode	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	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
MI-10102	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
MI-10103	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-1234z(E) 17 = R-454B 18 = R-515B	Standard
MI-10104	Cooling Type	1 = Water Cooled 2 = Air Cooled	Standard

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Object Identifier	Object Name	Object States	Configuration Dependency
MI-10105	Manufacture Location	1 = Field Applied 2 = La Crosse 3 = Pueblo 4 = Charmes 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
MI-10107	Front Panel Chiller Mode Command	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard

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Object Identifier	Object Name	Object States	Configuration Dependency
MI-10108	Model Information [GEN2]	1 = CVHF 2 = CVGF 3 = CVHS 4 = RTAE 5 = RTAF 6 = RTHA 7 = RTHB 8 = RTHC 9 = RTHD 10 = RTW 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 (375 to 550 tons) 37 = ACRB (150 to 300 tons)	Standard
MI-10109	Circuit 1 Status	1 = Available 2 = Heat Recovery 3 = Cooling 4 = Heating 5 = Defrost 6 = Not Available	Standard

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Object Identifier	Object Name	Object States	Configuration Dependency
MI-10110	Circuit 2 Status	1 = Available 2 = Heat Recovery 3 = Cooling 4 = Heating 5 = Defrost 6 = Not Available	Standard

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Object Identifier	Object Name	Description	Object States	Configuration Dependency
MV-10100	Chiller Mode Command BAS	BAS Chiller Mode Command	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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Modbus Register	Object Name	Units	Configuration Dependency
30011	Active Cool/Heat Setpoint Temperature	Temperature	Standard
30013	Evaporator Leaving Water Temperature	Temperature	Standard
30015	Evaporator Entering Water Temperature	Temperature	Standard
30017	Active Demand Limit Setpoint	Percentage	Ice Building = Not Installed
30019	Unit Power Consumption	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
30021	Outdoor Air Temperature	Temperature	Standard
30023	Evaporator Refrigerant Pressure Circuit 1	Pressure, Fluidic	Standard
30025	Condenser Refrigerant Pressure Circuit 1	Pressure, Fluidic	Standard
30027	Differential Refrigerant Pressure Circuit 1	Pressure, Fluidic	Standard
30029	Evaporator Saturated Rfgt Temp Circuit 1	Temperature	Standard
30031	Condenser Saturated Rfgt Temp Circuit 1	Temperature	Standard
30033	Evaporator Refrigerant Pressure Circuit 2	Pressure, Fluidic	Standard
30035	Condenser Refrigerant Pressure Circuit 2	Pressure, Fluidic	Standard
30037	Differential Refrigerant Pressure Circuit 2	Pressure, Fluidic	Standard
30039	Evaporator Saturated Rfgt Temp Circuit 2	Temperature	Standard
30041	Condenser Saturated Rfgt Temp Circuit 2	Temperature	Standard
30043	Actual Running Capacity	Percentage	Standard
30045	Active Heat Recovery Setpoint	Temperature	Total Heat Recovery
30047	Active Hot Water Setpoint	Temperature	Hot Water Control (Heat Pump)
30049	Air Flow Circuit 1	Percentage	Standard
30051	Air Flow Circuit 2	Percentage	Standard
30053	Starts Cprsr1A	No Units	Standard
30055	Running Time Cprsr1A	No Units	Standard
30057	Starts Cprsr2A	No Units	Standard
30059	Running Time Cprsr2A	No Units	Standard
30061	Heat Recovery Entering Water Temp	Temperature	Total Heat Recovery Partial Heat Recovery
30063	Heat Recovery Leaving Water Temp	Temperature	Total Heat Recovery Partial Heat Recovery
30065	Chiller Design Capacity	Power, Cooling	Standard
30067	Starts Cprsr1B	No Units	Standard
30069	Running Time Cprsr1B	No Units	Standard
30071	Starts Cprsr2B	No Units	Standard
30073	Running Time Cprsr2B	No Units	Standard
30075	Number Of Circuits	No Units	Standard

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Modbus Register	Object Name	Units	Configuration Dependency
30077	Number of Compressors for Circuit 1	No Units	Standard
30079	Number of Compressors for Circuit 2	No Units	Standard
30081	Free Cooling Capacity	Percentage	Free Cooling
30083	Free Cooling Entering Water Temperature	Temperature	Free Cooling
30085	Free Cooling Entering Glycol Temperature	Temperature	Free Cooling
30087	Free Cooling Leaving Glycol Temperature	Temperature	Free Cooling
30089	Energy Consumption NonReset	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
30091	Energy Consumption Resettable	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
30093	Starts Cprsr1C	No Units	Circuit 1 = 3 compressors
30095	Running Time Cprsr1C	No Units	Circuit 1 = 3 compressors
30097	Starts Cprsr2C	No Units	Circuit 2 = 3 compressors
30099	Running Time Cprsr2C	No Units	Circuit 2 = 3 compressors
30101	Estimated Discharge Temperature Circuit 1	Temperature	Discharge Temp Sensor = Not Installed
30103	Estimated Discharge Temperature Circuit 2	Temperature	Discharge Temp Sensor = Not Installed
30105	Compressor Discharge Temperature Circuit 1	Temperature	Discharge Temp Sensor = Installed
30107	Compressor Discharge Temperature Circuit 2	Temperature	Discharge Temp Sensor = Installed
30109	Free Cooling Glycol Pressure	Pressure, Fluidic	Free Cooling
30111	Unit Source ID	No Units	Standard
30113	Unit Load Command	Percentage	Standard
30115	Average Line Current Meter 1	Current	Energy Meter - Schneider Modbus
30117	Average Line Voltage Meter 1	Voltage	Energy Meter - Schneider Modbus
30119	Meter Line Current L1	Current	Energy Meter - Schneider Modbus
30121	Meter Line Current L2	Current	Energy Meter - Schneider Modbus
30123	Meter Line Current L3	Current	Energy Meter - Schneider Modbus
30125	Meter Line Voltage L1-L2	Voltage	Energy Meter - Schneider Modbus
30127	Meter Line Voltage L2-L3	Voltage	Energy Meter - Schneider Modbus
30129	Meter Line Voltage L1-L3	Voltage	Energy Meter - Schneider Modbus
30131	Chiller Power Demand	Power, Electrical	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
30133	Unit Line Frequency	No Units	Energy Meter - Schneider Modbus
30135	Unit Power Factor	No Units	Energy Meter - Schneider Modbus
30137	Heat Recovery Valve Position	Percentage	Total Heat Recovery
30139	Evaporator Refrigerant Absolute Pressure Circuit 1	Pressure, Fluidic	Standard

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Modbus Register	Object Name	Units	Configuration Dependency
30141	Condenser Refrigerant Absolute Pressure Circuit 1	Pressure, Fluidic	Standard
30143	Evaporator Refrigerant Absolute Pressure Circuit 2	Pressure, Fluidic	Standard
30145	Condenser Refrigerant Absolute Pressure Circuit 2	Pressure, Fluidic	Standard
30147	Free Cooling Glycol Absolute Pressure	Pressure, Fluidic	Free Cooling
30149	Supplemental Heater Status	Percentage	Supplemental Heater
30151	Evaporator Approach Temperature Circuit 1 (Cooling Mode Only)	Temperature	Standard
30153	Evaporator Approach Temperature Circuit 2 (Cooling Mode Only)	Temperature	Standard
30155	Condenser Approach Temperature Circuit 1 (Heating Mode Only)	Temperature	Standard
30157	Condenser Approach Temperature Circuit 2 (Heating Mode Only)	Temperature	Standard
30159	Active Chilled Water Setpoint	Temperature	Standard
30161	Chilled Water Setpoint Status	Temperature	Standard
30163	Hot Water Setpoint Status	Temperature	Hot Water Control (Heat Pump)
30165	Demand Limit Setpoint Status	Percentage	Ice Building
30167	Active Demand Limit Setpoint	Percentage	Ice Building

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Modbus Register	Object Name	Units	Configuration Dependency
40011	Chilled Water Setpoint	Temperature	Standard
40013	Demand Limit Setpoint	Percentage	Standard
40015	BAS Hot Water Setpoint	Temperature	Hot Water Control (Heat Pump)
40017	BAS Heat Recovery Setpoint	Temperature	Total Heat Recovery Partial Heat Recovery
40019	Evaporator Water Pump Speed Setpoint	Percentage	Variable Speed Evap Pump



Modbus Register	Object Name	Units	Configuration Dependency
33011	Limit Mode Relay Status	0 = Auto 1 = On	Standard
33012	Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
33013	Manual Override Exists	0 = Off 1 = On	Standard
33014	Run Enable	0 = Run Not Enabled 1 = Run Enabled	Standard
33015	Local Setpoint Control	0 = Remote control 1 = Local control	Standard
33016	Maximum Capacity Relay	0 = Off 1 = On	Standard
33017	Running Status Cprsr1A	0 = Off 1 = Running	Standard
33018	Running Status Cprsr2A	0 = Off 1 = Running	Standard
33019	Running Status Cprsr1B	0 = Off 1 = Running	Standard
33020	Running Status Cprsr2B	0 = Off 1 = Running	Standard
33021	Chiller Running State	0 = Off 1 = On	Standard
33022	Running Status Cprsr1C	0 = Off 1 = Running	Circuit 1 = 3 compressors
33023	Running Status Cprsr2C	0 = Off 1 = Running	Circuit 2 = 3 compressors
33024	Free Cooling Active	0 = Inactive 1 = Active	Free Cooling
33025	Heat Recovery Active	0 = Inactive 1 = Active	Total Heat Recovery
33026	Front Panel Auto/Stop	0 = Stop 1 = Auto	Standard
33027	Circuit Manual Reset Indicator (CMR) Circuit 1	0 = Normal 1 = In Alarm	Standard
33028	Circuit Manual Reset Indicator (CMR) Circuit 2	0 = Normal 1 = In Alarm	Standard
33029	Circuit Auto Reset Indicator (CAR) Circuit 1	0 = Normal 1 = In Alarm	Standard
33030	Circuit Auto Reset Indicator (CAR) Circuit 2	0 = Normal 1 = In Alarm	Standard
33031	Evaporator Water Pump Command	0 = Normal 1 = In Alarm	Standard
33032	Evaporator Water Flow Status	0 = Normal 1 = In Alarm	Standard



Modbus Register	Object Name	Units	Configuration Dependency
33033	Diagnostic Present: Information	0 = Normal 1 = In Alarm	Standard
33034	Diagnostic Present: Advisory	0 = Normal 1 = In Alarm	Standard
33035	Diagnostic Present: Critical	0 = Normal 1 = In Alarm	Standard
33036	Diagnostic Present: Service Required	0 = Normal 1 = In Alarm	Standard
33037	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
33038	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
33039	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
33040	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
33041	External Auto Stop	0 = Stop 1 = Auto	Standard
33042	Noise Reduction Request Active	0 = Off 1 = On	Noise Reduction
33043	Heat Recovery Request Active	0 = Off 1 = On	Total Heat Recovery
33044	Evaporator Water Pump Status	0 = Off 1 = On	Standard
33045	Circuit 1 Defrost Delay Status	0 = Off 1 = On	Hot Water Control (Heat Pump)
33046	Circuit 2 Defrost Delay Status	0 = Off 1 = On	Hot Water Control (Heat Pump)
33047	In Defrost	0 = Not in Defrost 1 = Defrost	Hot Water Control (Heat Pump)
33048	Circuit 1 Defrost Status	0 = Inactive 1 = Active	Hot Water Control (Heat Pump)
33049	Circuit 2 Defrost Status	0 = Inactive 1 = Active	Hot Water Control (Heat Pump)
33050	Circuit 1 Running Status	0 = Off 1 = On	Standard
33051	Circuit 2 Running Status	0 = Off 1 = On	Standard
33052	Low Ambient Lockout Status	0 = No Lockout 1 = Lockout Present	Standard
33053	Circuit 1 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
33054	Circuit 2 Lockout Front Panel	0 = Normal 1 = Locked Out	Standard
33055	Circuit 1 Lockout External	0 = Normal 1 = Locked Out	External Circuit Lockout

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Modbus Register	Object Name	Units	Configuration Dependency
33056	Circuit 2 Lockout External	0 = Normal 1 = Locked Out	External Circuit Lockout
33057	Circuit 1 Lockout Active	0 = Normal 1 = Locked Out	Standard
33058	Circuit 2 Lockout Active	0 = Normal 1 = Locked Out	Standard



Object Identifier	Diagnostic Name	Object States
34001	Comm Loss: Percent Capacity Output	0 = Normal 1 = In Alarm
34002	Comm Loss: Supplemental Heater Relay 1	0 = Normal 1 = In Alarm
34003	Comm Loss: Supplemental Heater Relay 2	0 = Normal 1 = In Alarm
34004	Comm Loss: Supplemental Heater Relay 3	0 = Normal 1 = In Alarm
34005	Comm Loss: Supplemental Heater Relay 4	0 = Normal 1 = In Alarm
34006	Comm Loss: Energy Meter	0 = Normal 1 = In Alarm
34007	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm
34008	Comm Loss: Phase Protection Fault Input	0 = Normal 1 = In Alarm
34009	Diagnostic: Energy Meter Write Command Failure	0 = Normal 1 = In Alarm
34010	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm
34011	Diagnostic: Phase Protection Fault	0 = Normal 1 = In Alarm
34012	Diagnostic: Software Error 1003: Call Trane Service	0 = Normal 1 = In Alarm
34013	Diagnostic: Pumpdown Terminated By Time - Circuit 2	0 = Normal 1 = In Alarm
34014	Diagnostic: Pumpdown Terminated By Time - Circuit 1	0 = Normal 1 = In Alarm
34015	Comm Loss: Discharge Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
34016	Comm Loss: Discharge Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
34017	Comm Loss: Discharge Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
34018	Comm Loss: Discharge Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
34019	Comm Loss: External Circuit 2 Lockout	0 = Normal 1 = In Alarm
34020	Comm Loss: External Circuit 1 Lockout	0 = Normal 1 = In Alarm
34021	Comm Loss: Reversing Valve - Circuit 1	0 = Normal 1 = In Alarm
34022	Comm Loss: Reversing Valve - Circuit 2	0 = Normal 1 = In Alarm
34023	Comm Loss: Suction Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34024	Comm Loss: Suction Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
34025	Comm Loss: Suction Temperature - Circuit 2	0 = Normal 1 = In Alarm
34026	Comm Loss: Suction Temperature - Circuit 1	0 = Normal 1 = In Alarm
34027	Diagnostic: Discharge Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
34028	Diagnostic: Discharge Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
34029	Diagnostic: Discharge Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
34030	Diagnostic: Discharge Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
34031	Diagnostic: Suction Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
34032	Diagnostic: Suction Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
34033	Diagnostic: Suction Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
34034	Diagnostic: Suction Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
34035	Comm Loss: Sump Heater - Circuit 1	0 = Normal 1 = In Alarm
34036	Comm Loss: Sump Heater - Circuit 2	0 = Normal 1 = In Alarm
34037	Diagnostic: High Compressor Pressure Differential - Circuit 2	0 = Normal 1 = In Alarm
34038	Diagnostic: High Compressor Pressure Differential - Circuit 1	0 = Normal 1 = In Alarm
34039	Diagnostic: High Discharge Refrigerant Pressure - Circuit 2	0 = Normal 1 = In Alarm
34040	Diagnostic: High Discharge Refrigerant Pressure - Circuit 1	0 = Normal 1 = In Alarm
34041	Diagnostic: High Discharge Temperature - Circuit 2	0 = Normal 1 = In Alarm
34042	Diagnostic: High Discharge Temperature - Circuit 1	0 = Normal 1 = In Alarm
34043	Diagnostic: High Discharge Temperature Lockout - Circuit 2	0 = Normal 1 = In Alarm
34044	Diagnostic: High Discharge Temperature Lockout - Circuit 1	0 = Normal 1 = In Alarm
34045	Diagnostic: Loss of Charge - Circuit 2	0 = Normal 1 = In Alarm
34046	Diagnostic: Loss of Charge - Circuit 1	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34047	Diagnostic: Low Discharge Saturated Temperature - Circuit 2	0 = Normal 1 = In Alarm
34048	Diagnostic: Low Discharge Saturated Temperature - Circuit 1	0 = Normal 1 = In Alarm
34049	Diagnostic: Low Refrigerant Pressure Ratio - Circuit 1	0 = Normal 1 = In Alarm
34050	Diagnostic: Low Refrigerant Pressure Ratio - Circuit 2	0 = Normal 1 = In Alarm
34051	Diagnostic: Low Refrigerant Temperature - Circuit 2	0 = Normal 1 = In Alarm
34052	Diagnostic: Low Refrigerant Temperature - Circuit 1	0 = Normal 1 = In Alarm
34053	Diagnostic: Low Suction Refrigerant Pressure - Circuit 2	0 = Normal 1 = In Alarm
34054	Diagnostic: Low Suction Refrigerant Pressure - Circuit 1	0 = Normal 1 = In Alarm
34055	Diagnostic: Low Suction Superheat - Circuit 2	0 = Normal 1 = In Alarm
34056	Diagnostic: Low Suction Superheat - Circuit 1	0 = Normal 1 = In Alarm
34057	Diagnostic: Suction Temperature Too High - Circuit 2	0 = Normal 1 = In Alarm
34058	Diagnostic: Suction Temperature Too High - Circuit 1	0 = Normal 1 = In Alarm
34059	Diagnostic: Very Low Suction Pressure - Circuit 1	0 = Normal 1 = In Alarm
34060	Diagnostic: Very Low Suction Pressure - Circuit 2	0 = Normal 1 = In Alarm
34061	Comm Loss: Compressor 1C Fault Input	0 = Normal 1 = In Alarm
34062	Comm Loss: Compressor 1B Fault Input	0 = Normal 1 = In Alarm
34063	Comm Loss: Compressor 1A Fault Input	0 = Normal 1 = In Alarm
34064	Diagnostic: Compressor 1A Fault	0 = Normal 1 = In Alarm
34065	Diagnostic: Compressor 1B Fault	0 = Normal 1 = In Alarm
34066	Diagnostic: Compressor 1C Fault	0 = Normal 1 = In Alarm
34067	Diagnostic: Compressor 1C Fault Lockout	0 = Normal 1 = In Alarm
34068	Diagnostic: Compressor 1B Fault Lockout	0 = Normal 1 = In Alarm
34069	Diagnostic: Compressor 1A Fault Lockout	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34070	Diagnostic: Starts/Hours Modified 1A	0 = Normal 1 = In Alarm
34071	Diagnostic: Starts/Hours Modified 1B	0 = Normal 1 = In Alarm
34072	Diagnostic: Starts/Hours Modified 1C	0 = Normal 1 = In Alarm
34073	Comm Loss: Compressor 2C Fault Input	0 = Normal 1 = In Alarm
34074	Comm Loss: Compressor 2B Fault Input	0 = Normal 1 = In Alarm
34075	Comm Loss: Compressor 2A Fault Input	0 = Normal 1 = In Alarm
34076	Diagnostic: Compressor 2A Fault	0 = Normal 1 = In Alarm
34077	Diagnostic: Compressor 2B Fault	0 = Normal 1 = In Alarm
34078	Diagnostic: Compressor 2C Fault	0 = Normal 1 = In Alarm
34079	Diagnostic: Compressor 2C Fault Lockout	0 = Normal 1 = In Alarm
34080	Diagnostic: Compressor 2B Fault Lockout	0 = Normal 1 = In Alarm
34081	Diagnostic: Compressor 2A Fault Lockout	0 = Normal 1 = In Alarm
34082	Diagnostic: Starts/Hours Modified 2B	0 = Normal 1 = In Alarm
34083	Diagnostic: Starts/Hours Modified 2C	0 = Normal 1 = In Alarm
34084	Diagnostic: Starts/Hours Modified 2A	0 = Normal 1 = In Alarm
34085	Comm Loss: High Pressure Cutout Switch - Circuit 2	0 = Normal 1 = In Alarm
34086	Comm Loss: High Pressure Cutout Switch - Circuit 1	0 = Normal 1 = In Alarm
34087	Diagnostic: High Pressure Cutout - Circuit 2	0 = Normal 1 = In Alarm
34088	Diagnostic: High Pressure Cutout - Circuit 1	0 = Normal 1 = In Alarm
34089	Comm Loss: Shared V Coil Isolating Valve - Circuit 1	0 = Normal 1 = In Alarm
34090	Comm Loss: Shared V Coil Isolating Valve - Circuit 2	0 = Normal 1 = In Alarm
34091	Comm Loss: Dynamic Receiver Fill Valve - Circuit 1	0 = Normal 1 = In Alarm
34092	Comm Loss: Dynamic Receiver Fill Valve - Circuit 2	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34093	Comm Loss: Hot Gas Bypass Valve - Circuit 1	0 = Normal 1 = In Alarm
34094	Comm Loss: Hot Gas Bypass Valve - Circuit 2	0 = Normal 1 = In Alarm
34095	Comm Loss: Liquid Line Pressure - Circuit 1	0 = Normal 1 = In Alarm
34096	Comm Loss: Liquid Line Pressure - Circuit 2	0 = Normal 1 = In Alarm
34097	Comm Loss: Liquid Line Temperature - Circuit 1	0 = Normal 1 = In Alarm
34098	Comm Loss: Liquid Line Temperature - Circuit 2	0 = Normal 1 = In Alarm
34099	Diagnostic: Liquid Line Pressure Transducer - Circuit 1	0 = Normal 1 = In Alarm
34100	Diagnostic: Liquid Line Pressure Transducer - Circuit 2	0 = Normal 1 = In Alarm
34101	Diagnostic: Liquid Line Temperature Sensor - Circuit 1	0 = Normal 1 = In Alarm
34102	Diagnostic: Liquid Line Temperature Sensor - Circuit 2	0 = Normal 1 = In Alarm
34103	Comm Loss: Evaporator Antifreeze Heater	0 = Normal 1 = In Alarm
34104	Comm Loss: Heat Recovery Antifreeze Heater	0 = Normal 1 = In Alarm
34105	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm
34106	Diagnostic: Evaporator Water Flow Lost Lockout	0 = Normal 1 = In Alarm
34107	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm
34108	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm
34109	Diagnostic: High Suction Rfpt Pressure	0 = Normal 1 = In Alarm
34110	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm
34111	Diagnostic: Inverted Water Temp (Heating)	0 = Normal 1 = In Alarm
34112	Diagnostic: Low Evaporator Water Temp (Unit On)	0 = Normal 1 = In Alarm
34113	Diagnostic: Low Evaporator Water Temp (Unit Off)	0 = Normal 1 = In Alarm
34114	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm
34115	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34116	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm
34117	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34118	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34119	Comm Loss: Cooling EXV - Circuit 1	0 = Normal 1 = In Alarm
34120	Comm Loss: Cooling EXV - Circuit 2	0 = Normal 1 = In Alarm
34121	Comm Loss: Electronic Expansion Valve - Circuit 2	0 = Normal 1 = In Alarm
34122	Comm Loss: Electronic Expansion Valve - Circuit 1	0 = Normal 1 = In Alarm
34123	Comm Loss: Heating EXV - Circuit 1	0 = Normal 1 = In Alarm
34124	Comm Loss: Heating EXV - Circuit 2	0 = Normal 1 = In Alarm
34125	Comm Loss: Auxiliary Setpoint Command	0 = Normal 1 = In Alarm
34126	Comm Loss: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
34127	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
34128	Comm Loss: Ext Noise Reduction Request	0 = Normal 1 = In Alarm
34129	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm
34130	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm
34131	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm
34132	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm
34133	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm
34134	Diagnostic: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
34135	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
34136	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm
34137	Comm Loss: Condenser Fan Enable - Circuit 2	0 = Normal 1 = In Alarm
34138	Comm Loss: Condenser Fan Enable - Circuit 1	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34139	Comm Loss: Cond Fan Enbl Shared Ckt 1&2	0 = Normal 1 = In Alarm
34140	Comm Loss: Condenser Fan Fault - Circuit 1	0 = Normal 1 = In Alarm
34141	Comm Loss: Condenser Fan Fault - Circuit 2	0 = Normal 1 = In Alarm
34142	Comm Loss: Fan Board 1 Relay 1 - Circuit 1	0 = Normal 1 = In Alarm
34143	Comm Loss: Fan Board 1 Relay 1 - Circuit 2	0 = Normal 1 = In Alarm
34144	Comm Loss: Fan Board 1 Relay 2 - Circuit 1	0 = Normal 1 = In Alarm
34145	Comm Loss: Fan Board 1 Relay 2 - Circuit 2	0 = Normal 1 = In Alarm
34146	Comm Loss: Fan Board 1 Relay 3 - Circuit 1	0 = Normal 1 = In Alarm
34147	Comm Loss: Fan Board 1 Relay 3 - Circuit 2	0 = Normal 1 = In Alarm
34148	Comm Loss: Fan Board 1 Relay 4 - Circuit 1	0 = Normal 1 = In Alarm
34149	Comm Loss: Fan Board 1 Relay 4 - Circuit 2	0 = Normal 1 = In Alarm
34150	Comm Loss: Fan Board 2 Relay 1 - Circuit 1	0 = Normal 1 = In Alarm
34151	Comm Loss: Fan Board 2 Relay 1 - Circuit 2	0 = Normal 1 = In Alarm
34152	Comm Loss: Fan Board 2 Relay 2 - Circuit 1	0 = Normal 1 = In Alarm
34153	Comm Loss: Fan Board 2 Relay 2 - Circuit 2	0 = Normal 1 = In Alarm
34154	Comm Loss: Fan Board 2 Relay 3 - Circuit 2	0 = Normal 1 = In Alarm
34155	Comm Loss: Fan Board 2 Relay 3 - Circuit 1	0 = Normal 1 = In Alarm
34156	Comm Loss: Fan Board 2 Relay 4 - Circuit 2	0 = Normal 1 = In Alarm
34157	Comm Loss: Fan Board 2 Relay 4 - Circuit 1	0 = Normal 1 = In Alarm
34158	Comm Loss: Fan Inverter Speed Command - Circuit 2	0 = Normal 1 = In Alarm
34159	Comm Loss: Fan Inverter Speed Command - Circuit 1	0 = Normal 1 = In Alarm
34160	Comm Loss: Fan Inv Spd Cmd, Shrd Circuit 1&2	0 = Normal 1 = In Alarm
34161	Comm Loss: Fan Speed Select Board Relay 1 - Circuit 1	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34162	Comm Loss: Fan Speed Select Board Relay 2 - Circuit 1	0 = Normal 1 = In Alarm
34163	Comm Loss: Fan Speed Select Board Relay 3 - Circuit 2	0 = Normal 1 = In Alarm
34164	Comm Loss: Fan Speed Select Board Relay 4 - Circuit 2	0 = Normal 1 = In Alarm
34165	Diagnostic: Condenser Fan Fault - Circuit 1	0 = Normal 1 = In Alarm
34166	Diagnostic: Condenser Fan Fault - Circuit 2	0 = Normal 1 = In Alarm
34167	Comm Loss: FC Entering Glycol Temp	0 = Normal 1 = In Alarm
34168	Comm Loss: FC Entering Water Temp	0 = Normal 1 = In Alarm
34169	Comm Loss: FC Leaving Glycol Temp	0 = Normal 1 = In Alarm
34170	Comm Loss: Free Cooling Glycol Flow Switch	0 = Normal 1 = In Alarm
34171	Comm Loss: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
34172	Comm Loss: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
34173	Comm Loss: Free Cooling Pump	0 = Normal 1 = In Alarm
34174	Comm Loss: Free Cooling Valve	0 = Normal 1 = In Alarm
34175	Diagnostic: Free Cooling Entering Glycol Temperature	0 = Normal 1 = In Alarm
34176	Diagnostic: Free Cooling Entering Water Temperature	0 = Normal 1 = In Alarm
34177	Diagnostic: Free Cooling Glycol Flow Lost	0 = Normal 1 = In Alarm
34178	Diagnostic: Free Cooling Glycol Flow Overdue	0 = Normal 1 = In Alarm
34179	Diagnostic: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
34180	Diagnostic: Free Cooling Glycol Temperature Equalization Overdue	0 = Normal 1 = In Alarm
34181	Diagnostic: Free Cooling Leaving Glycol Temperature	0 = Normal 1 = In Alarm
34182	Diagnostic: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
34183	Diagnostic: Low Glycol Pressure Free Cooling	0 = Normal 1 = In Alarm
34184	Diagnostic: Low Glycol Temp Free Cooling	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34185	Comm Loss: External Heat Recovery Command	0 = Normal 1 = In Alarm
34186	Comm Loss: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
34187	Comm Loss: Heat Rec Rfgt Bypass Valve Circuit 1	0 = Normal 1 = In Alarm
34188	Comm Loss: Heat Rec Rfgt Bypass Valve Circuit 2	0 = Normal 1 = In Alarm
34189	Comm Loss: HR Entering Water Temperature	0 = Normal 1 = In Alarm
34190	Comm Loss: HR Leaving Water Temperature	0 = Normal 1 = In Alarm
34191	Comm Loss: Heat Recovery Three Way Valve	0 = Normal 1 = In Alarm
34192	Diagnostic: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
34193	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34194	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34195	Diagnostic: No Heat Recovery	0 = Normal 1 = In Alarm
34196	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm
34197	Diagnostic: Restart Inhibit Invoked - 1A	0 = Normal 1 = In Alarm
34198	Diagnostic: Restart Inhibit Invoked - 1B	0 = Normal 1 = In Alarm
34199	Diagnostic: Restart Inhibit Invoked - 1C	0 = Normal 1 = In Alarm
34200	Diagnostic: Restart Inhibit Invoked - 2A	0 = Normal 1 = In Alarm
34201	Diagnostic: Restart Inhibit Invoked - 2B	0 = Normal 1 = In Alarm
34202	Diagnostic: Restart Inhibit Invoked - 2C	0 = Normal 1 = In Alarm
34203	Comm Loss: Energy Meter Pulse Input	0 = Normal 1 = In Alarm
34204	Comm Loss: Run Command Compressor 1A	0 = Normal 1 = In Alarm
34205	Comm Loss: Run Command Compressor 1B	0 = Normal 1 = In Alarm
34206	Comm Loss: Run Command Compressor 1C	0 = Normal 1 = In Alarm
34207	Comm Loss: Run Command Compressor 2A	0 = Normal 1 = In Alarm



Object Identifier	Diagnostic Name	Object States
34208	Comm Loss: Run Command Compressor 2B	0 = Normal 1 = In Alarm
34209	Comm Loss: Run Command Compressor 2C	0 = Normal 1 = In Alarm
34210	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm
34211	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm
34212	Comm Loss: Evap Pump Inv1 Fault Input	0 = Normal 1 = In Alarm
34213	Comm Loss: Evap Pump Inv1 Freq Feedback	0 = Normal 1 = In Alarm
34214	Comm Loss: Evap Pump Inv1 Run Command	0 = Normal 1 = In Alarm
34215	Comm Loss: Evaporator Pump 2 Fault Input	0 = Normal 1 = In Alarm
34216	Comm Loss: Evaporator Water Pump 1 Relay	0 = Normal 1 = In Alarm
34217	Comm Loss: Evaporator Water Pump 2 Relay	0 = Normal 1 = In Alarm
34218	Comm Loss: Evaporator Pump 1 Fault Input	0 = Normal 1 = In Alarm
34219	Diagnostic: Evap Pump 1 Starts Run time Written	0 = Normal 1 = In Alarm
34220	Diagnostic: Evap Pump 2 Starts Run time Written	0 = Normal 1 = In Alarm
34221	Diagnostic: Evaporator Pump 1 Fault	0 = Normal 1 = In Alarm
34222	Diagnostic: Evaporator Pump 2 Fault	0 = Normal 1 = In Alarm
34223	Diagnostic: Evaporator Water Flow Lost - Pump1	0 = Normal 1 = In Alarm
34224	Diagnostic: Evaporator Water Flow Lost - Pump2	0 = Normal 1 = In Alarm
34225	Diagnostic: Evaporator Water Flow Overdue - Pump1	0 = Normal 1 = In Alarm
34226	Diagnostic: Evaporator Water Flow Overdue - Pump2	0 = Normal 1 = In Alarm
34227	Comm Loss: SLHX Entering Refrigerant Temp - Circuit 1	0 = Normal 1 = In Alarm
34228	Comm Loss: SLHX Entering Refrigerant Temp - Circuit 2	0 = Normal 1 = In Alarm
34229	Comm Loss: SLHX Valve - Circuit 1	0 = Normal 1 = In Alarm
34230	Comm Loss: SLHX Valve - Circuit 2	0 = Normal 1 = In Alarm

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Object Identifier	Diagnostic Name	Object States
34231	Diagnostic: SLHX Entering Temp Sensor - Circuit 1	0 = Normal 1 = In Alarm
34232	Diagnostic: SLHX Entering Temp Sensor - Circuit 2	0 = Normal 1 = In Alarm
34233	Diagnostic: Chiller Service Recommended	0 = Normal 1 = In Alarm
34234	Diagnostic: Evap Water Pump 1 Svc Recommended	0 = Normal 1 = In Alarm
34235	Diagnostic: Evap Water Pump 2 Svc Recommended	0 = Normal 1 = In Alarm
34236	Diagnostic: Mfr Maintenance Recommended - 1A	0 = Normal 1 = In Alarm
34237	Diagnostic: Mfr Maintenance Recommended - 1B	0 = Normal 1 = In Alarm
34238	Diagnostic: Mfr Maintenance Recommended - 1C	0 = Normal 1 = In Alarm
34239	Diagnostic: Mfr Maintenance Recommended - 2A	0 = Normal 1 = In Alarm
34240	Diagnostic: Mfr Maintenance Recommended - 2B	0 = Normal 1 = In Alarm
34241	Diagnostic: Mfr Maintenance Recommended - 2C	0 = Normal 1 = In Alarm
34242	Diagnostic: Evaporator Water Flow Too Low	0 = Normal 1 = In Alarm
34243	Comm Loss: Evap Water Pump Inverter Speed	0 = Normal 1 = In Alarm
34244	Energy Meter Write Value Failure	0 = Normal 1 = In Alarm

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Modbus Register	Object Name	Object States	Configuration Dependency
43011	Reset Diagnostic	0 = Normal 1 = Reset	Standard
43012	BAS Noise Reduction Request	0 = Normal 1 = Reduce Noise	Noise Reduction
43013	BAS Heat Recovery Command	0 = Off 1 = On	Total Heat Recovery Partial Heat Recovery
43014	Energy Consumption Reset	0 = Accumulating 1 = Reset	Energy Meter - Pulse Input Energy Meter - Schneider Modbus
43015	BAS Circuit 1 Lockout	0 = Normal 1 = Locked Out	Standard
43016	BAS Circuit 2 Lockout	0 = Normal 1 = Locked Out	Standard
43017	BAS Free Cooling Auto Stop Command	0 = Stop 1 = Auto	Free Cooling
43018	BAS Chiller Auto Stop Command	0 = Stop 1 = Auto	Standard
43019	Evaporator Water Pump Request BAS	0 = Auto 1 = On	Standard
43020	Defrost Delay Request BAS	0 = Off 1 = On	Hot Water Control (Heat Pump)

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Modbus Register	Object Name	Object States	Configuration Dependency
32011	Chiller Running Status	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	1 = Cool 2 = Heat 3 = Ice Making	Standard
32013	Chiller Setpoint Source	1 = BAS 2 = External 3 = Front Panel	Standard
32014	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-1234z(E) 17 = R-454B 18 = R-515B	Standard
32015	Cooling Type	1 = Water Cooled 2 = Air Cooled	Standard

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Modbus Register	Object Name	Object States	Configuration Dependency
32016	Manufacture Location	1 = Field Applied 2 = La Crosse 3 = Pueblo 4 = Charmes 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
32017	Front Panel Chiller Mode Command	1 = Cool 2 = Heat 3 = Ice Making	Standard

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Modbus Register	Object Name	Object States	Configuration Dependency
32018	Model Information [GEN2]	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	Standard
32019	Circuit 1 Status	1 = Available 2 = Heat Recovery 3 = Cooling 4 = Heating 5 = Defrost 6 = Not Available	Standard

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Modbus Register	Object Name	Object States	Configuration Dependency
32020	Circuit 2 Status	1 = Available 2 = Heat Recovery 3 = Cooling 4 = Heating 5 = Defrost 6 = Not Available	Standard

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Modbus Register	Object Name	Object States	Configuration Dependency
42011	BAS Chiller Mode Command	1 = Cool 2 = Heat 3 = Ice Making	Standard



Diagnostic Hex Codes



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
1001	3E9	MP: Invalid Configuration
1006	3EE	MP: Reset Has Occurred
21001	5209	Comm Loss: Outdoor Air Temperature
21002	520A	Outdoor Air Temperature Sensor
21003	520B	Comm Loss: Phase Protection Fault Input
21004	520C	Phase Protection Fault
21010	5212	Comm Loss: Energy Meter
21011	5213	Energy Meter Write Command Failure
31001	7919	Comm Loss: Supplemental Heater Relay 1
31002	791A	Comm Loss: Percent Capacity Output
31003	791B	Comm Loss: Supplemental Heater Relay 2
31004	791C	Comm Loss: Supplemental Heater Relay 3
31005	791D	Comm Loss: Supplemental Heater Relay 4
41001	A029	Comm Loss: Discharge Pressure Transducer - Circuit 1
41002	A02A	Comm Loss: Suction Rfgt Pressure - Circuit 1
41004	A02C	Pumpdown Terminated By Time - Circuit 1
41005	A02D	Discharge Pressure Transducer - Circuit 1
41006	A02E	Suction Pressure Transducer - Circuit 1
41008	A030	Comm Loss: Suction Temperature - Circuit 1
41009	A031	Suction Temperature Sensor - Circuit 1
41010	A032	Comm Loss: Reversing Valve - Circuit 1
41012	A034	Comm Loss: Discharge Temperature Sensor - Circuit 1
41013	A035	Discharge Temperature Sensor - Circuit 1
41015	A037	Comm Loss: External Ckt Lockout - Circuit 1
42001	A411	Comm Loss: Discharge Pressure Transducer - Circuit 2
42002	A412	Comm Loss: Suction Rfgt Pressure - Circuit 2
42004	A414	Pumpdown Terminated By Time - Circuit 2
42005	A415	Discharge Pressure Transducer - Circuit 2
42006	A416	Suction Pressure Transducer - Circuit 2
42008	A418	Comm Loss: Suction Temperature - Circuit 2
42009	A419	Suction Temperature Sensor - Circuit 2
42010	A41A	Comm Loss: Reversing Valve - Circuit 2
42012	A41C	Comm Loss: Discharge Temperature Sensor - Circuit 2



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
42013	A41D	Discharge Temperature Sensor - Circuit 2
42015	A41F	Comm Loss: External Ckt Lockout - Circuit 2
61002	EE4A	Comm Loss: Evaporator Water Flow Switch
61003	EE4B	Comm Loss: Evap Entering Water Temp
61004	EE4C	Comm Loss: Evap Leaving Water Temp
61005	EE4D	Evaporator Entering Water Temp Sensor
61006	EE4E	Evaporator Leaving Water Temp Sensor
81001	13C69	Comm Loss: External Auto/Stop
81002	13C6A	Comm Loss: Emergency Stop Feedback Input
81003	13C6B	Emergency Stop Feedback Input
81005	13C6D	External Chilled/Hot Water Setpoint
81006	13C6E	Comm Loss: Ext Chilled/Hot Water Setpoint
81007	13C6F	Comm Loss: Programmable Relay Board 1
81008	13C70	External Demand Limit Setpoint
81009	13C71	Comm Loss: Ext Demand Limit Setpoint
81010	13C72	Comm Loss: Auxiliary Setpoint Command
81011	13C73	Comm Loss: External Hot Water Command
81016	13C78	Comm Loss: Ext Noise Reduction Request
81017	13C79	Comm Loss: Programmable Relay Board 2
101002	18A8A	Low Suction Refrigerant Pressure - Circuit 1
101003	18A8B	Low Refrigerant Temperature - Circuit 1
101004	18A8C	High Discharge Temperature - Circuit 1
101005	18A8D	High Compressor Pressure Differential - Circuit 1
101006	18A8E	Low Suction Superheat - Circuit 1
101008	18A90	High Discharge Temperature Lockout - Circuit 1
101009	18A91	Low Discharge Saturated Temperature - Circuit 1
101011	18A93	High Discharge Refrigerant Pressure - Circuit 1
101012	18A94	Very Low Suction Pressure - Circuit 1
101013	18A95	Loss of Charge - Circuit 1
101014	18A96	Suction Temperature Too High - Circuit 1
101015	18A97	Low Refrigerant Pressure Ratio - Circuit 1
101016	18A98	Comm Loss: Sump Heater - Circuit 1
102002	18E72	Low Suction Refrigerant Pressure - Circuit 2



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
102003	18E73	Low Refrigerant Temperature - Circuit 2
102004	18E74	High Discharge Temperature - Circuit 2
102005	18E75	High Compressor Pressure Differential - Circuit 2
102006	18E76	Low Suction Superheat - Circuit 2
102008	18E78	High Discharge Temperature Lockout - Circuit 2
102009	18E79	Low Discharge Saturated Temperature - Circuit 2
102011	18E7B	High Discharge Refrigerant Pressure - Circuit 2
102012	18E7C	Very Low Suction Pressure - Circuit 2
102013	18E7D	Loss of Charge - Circuit 2
102014	18E7E	Suction Temperature Too High - Circuit 2
102015	18E7F	Low Refrigerant Pressure Ratio - Circuit 2
102016	18E80	Comm Loss: Sump Heater - Circuit 2
111001	1B199	Low Evaporator Water Temp (Unit On)
111002	1B19A	Low Evaporator Water Temp (Unit Off)
111003	1B19B	Evaporator Water Flow Overdue
111004	1B19C	Evaporator Water Flow Lost
111005	1B19D	Inverted Evaporator Water Temperature
111006	1B19E	High Evaporator Water Temperature
111007	1B19F	Comm Loss:Evaporator Antifreeze Heater
111010	1B1A2	Inverted Water Temp (Heating)
111011	1B1A3	High Suction Rfgt Pressure
111012	1B1A4	Evaporator Water Flow Lost Lockout
111013	1B1A5	Comm Loss:Heat Recovery Antifreeze Heater
141003	226CB	High Pressure Cutout - Circuit 1
141004	226CC	Comm Loss: High Pressure Cutout Switch - Circuit 1
142003	22AB3	High Pressure Cutout - Circuit 2
142004	22AB4	Comm Loss: High Pressure Cutout Switch - Circuit 2
171001	29BF9	Comm Loss: External Ice Building Command
231015	38667	Comm Loss: Evap Water Pump Inverter Speed
251002	3D47A	Comm Loss: Fan Inverter Speed Command - Circuit 1
251004	3D47C	Comm Loss: Condenser Fan Enable - Circuit 1
251005	3D47D	Comm Loss: Condenser Fan Fault - Circuit 1
251006	3D47E	Condenser Fan Fault - Circuit 1



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
251008	3D480	Comm Loss: Fan Inverter Speed Command, Shared
251009	3D481	Comm Loss: Cond Fan Enable, Shared
251010	3D482	Comm Loss: Fan Board 1 Relay 1 - Circuit 1
251011	3D483	Comm Loss: Fan Board 1 Relay 2 - Circuit 1
251012	3D484	Comm Loss: Fan Board 1 Relay 3 - Circuit 1
251013	3D485	Comm Loss: Fan Board 1 Relay 4 - Circuit 1
251014	3D486	Comm Loss: Fan Speed Select Board Relay 1 - Circuit 1
251015	3D487	Comm Loss: Fan Speed Select Board Relay 2 - Circuit 1
251016	3D488	Comm Loss: Fan Board 2 Relay 1 - Circuit 1
251017	3D489	Comm Loss: Fan Board 2 Relay 2 - Circuit 1
251018	3D48A	Comm Loss: Fan Board 2 Relay 3 - Circuit 1
251019	3D48B	Comm Loss: Fan Board 2 Relay 4 - Circuit 1
252002	3D862	Comm Loss: Fan Inverter Speed Command - Circuit 2
252004	3D864	Comm Loss: Condenser Fan Enable - Circuit 2
252005	3D865	Comm Loss: Condenser Fan Fault - Circuit 2
252006	3D866	Condenser Fan Fault - Circuit 2
252010	3D86A	Comm Loss: Fan Board 1 Relay 1 - Circuit 2
252011	3D86B	Comm Loss: Fan Board 1 Relay 2 - Circuit 2
252012	3D86C	Comm Loss: Fan Board 1 Relay 3 - Circuit 2
252013	3D86D	Comm Loss: Fan Board 1 Relay 4 - Circuit 2
252014	3D86E	Comm Loss: Fan Speed Select Board Relay 3 - Circuit 2
252015	3D86F	Comm Loss: Fan Speed Select Board Relay 4 - Circuit 2
252016	3D870	Comm Loss: Fan Board 2 Relay 1 - Circuit 2
252017	3D871	Comm Loss: Fan Board 2 Relay 2 - Circuit 2
252018	3D872	Comm Loss: Fan Board 2 Relay 3 - Circuit 2
252019	3D873	Comm Loss: Fan Board 2 Relay 4 - Circuit 2
281001	449A9	Comm Loss: Evaporator Water Pump 1 Relay
281002	449AA	Comm Loss: Evaporator Water Pump 2 Relay
281003	449AB	Evaporator Water Flow Lost - Pump1
281004	449AC	Evaporator Water Flow Lost - Pump2
281005	449AD	Evaporator Water Flow Overdue - Pump1
281006	449AE	Evaporator Water Flow Overdue - Pump2
281007	449AF	Evaporator Pump 1 Fault



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
281008	449B0	Evaporator Pump 2 Fault
281009	449B1	Comm Loss: Evaporator Pump 1 Fault Input
281010	449B2	Comm Loss: Evaporator Pump 2 Fault Input
281023	449BF	Comm Loss: Evap Pump Inv1 Run Command
281024	449C0	Comm Loss: Evap Pump Inv1 Freq Feedback
281025	449C1	Comm Loss: Evap Pump Inv1 Fault Input
281026	449C2	Evap Pump 1 Starts Run time Written
281027	449C3	Evap Pump 2 Starts Run time Written
291001	470B9	Comm Loss: Electronic Expansion Valve - Circuit 1
291002	470BA	Comm Loss: Cooling EXV - Circuit 1
291003	470BB	Comm Loss: Heating EXV - Circuit 1
292001	474A1	Comm Loss: Electronic Expansion Valve - Circuit 2
292002	474A2	Comm Loss: Cooling EXV - Circuit 2
292003	474A3	Comm Loss: Heating EXV - Circuit 2
311001	4BED9	Comm Loss: Compressor Fault Input - Compressor 1A
311002	4BEDA	Compressor Fault Lockout - Compressor 1A
311003	4BEDB	Starts/Hours Modified - Compressor 1A
311005	4BEDD	Compressor 1A Fault
312001	4C2C1	Comm Loss: Compressor Fault Input - Compressor 1B
312002	4C2C2	Compressor Fault Lockout - Compressor 1B
312003	4C2C3	Starts/Hours Modified - Compressor 1B
312005	4C2C5	Compressor 1B Fault
313001	4C6A9	Comm Loss: Compressor Fault Input - Compressor 1C
313002	4C6AA	Compressor Fault Lockout - Compressor 1C
313003	4C6AB	Starts/Hours Modified - Compressor 1C
313005	4C6AD	Compressor 1C Fault
321001	4E5E9	Comm Loss: Compressor Fault Input - Compressor 2A
321002	4E5EA	Compressor Fault Lockout - Compressor 2A
321003	4E5EB	Starts/Hours Modified - Compressor 2A
321005	4E5ED	Compressor 2A Fault
322001	4E9D1	Comm Loss: Compressor Fault Input - Compressor 2B
322002	4E9D2	Compressor Fault Lockout - Compressor 2B
322003	4E9D3	Starts/Hours Modified - Compressor 2B



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
322005	4E9D5	Compressor 2B Fault
323001	4EDB9	Comm Loss: Compressor Fault Input - Compressor 2C
323002	4EDBA	Compressor Fault Lockout - Compressor 2C
323003	4EDBB	Starts/Hours Modified - Compressor 2C
323005	4EDBD	Compressor 2C Fault
391007	5F75F	Comm Loss: Run Command Compressor 1A
391008	5F760	Comm Loss: Energy Meter Pulse Input - Circuit 1
392007	5FB47	Comm Loss: Run Command Compressor 1B
393007	5FF2F	Comm Loss: Run Command Compressor 1C
401007	61E6F	Comm Loss: Run Command Compressor 2A
402007	62257	Comm Loss: Run Command Compressor 2B
403007	6263F	Comm Loss: Run Command Compressor 2C
431001	69399	Restart Inhibit Invoked - Compressor 1A
432001	69781	Restart Inhibit Invoked - Compressor 1B
433001	69B69	Restart Inhibit Invoked - Compressor 1C
441001	6BAA9	Restart Inhibit Invoked - Compressor 2A
442001	6BE91	Restart Inhibit Invoked - Compressor 2B
443001	6C279	Restart Inhibit Invoked - Compressor 2C
511001	7CC19	Comm Loss: Shared V Coil Isolating Valve - Circuit 1
512001	7D001	Comm Loss: Shared V Coil Isolating Valve - Circuit 2
551001	86859	Comm Loss: HR Leaving Water Temperature
551002	8685A	Heat Recovery Leaving Water Temp Sensor
551003	8685B	Comm Loss: HR Entering Water Temperature
551004	8685C	Heat Recovery Entering Water Temp Sensor
551005	8685D	Comm Loss: Heat Recovery Three Way Valve
551006	8685E	Comm Loss: External Heat Recovery Command
551007	8685F	No Heat Recovery
551009	86861	Comm Loss: External Heat Recovery Setpoint
551010	86862	External Heat Recovery Setpoint
551011	86863	Comm Loss: Heat Rec Rfgt Bypass Valve - Circuit 1
552011	86C4B	Comm Loss: Heat Rec Rfgt Bypass Valve - Circuit 2
591001	90499	Evaporator Water Flow Too Low
611001	952B9	Comm Loss: FC Entering Water Temp



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
611002	952BA	Free Cooling Entering Water Temperature
611003	952BB	Comm Loss: Free Cooling Valve
611005	952BD	Comm Loss: FC Entering Glycol Temp
611006	952BE	Free Cooling Entering Glycol Temperature
611007	952BF	Comm Loss: FC Leaving Glycol Temp
611008	952C0	Free Cooling Leaving Glycol Temperature
611009	952C1	Comm Loss: Free Cooling Pump
611010	952C2	Low Glycol Temp Free Cooling
611011	952C3	Free Cooling Glycol Temperature Equalization Overdue
611012	952C4	Free Cooling Glycol Flow Overdue
611013	952C5	Comm Loss: Free Cooling Glycol Flow Switch
611015	952C7	Comm Loss: Free Cooling Glycol Pressure
611016	952C8	Free Cooling Glycol Pressure
611017	952C9	Low Glycol Pressure Free Cooling
611018	952CA	Comm Loss: Free Cooling Glycol Pump Fault
611019	952CB	Free Cooling Glycol Pump Fault
611020	952CC	Free Cooling Glycol Flow Lost
621003	979CB	Chiller Service Recommended
621004	979CC	Evap Water Pump 1 Svc Recommended
621005	979CD	Evap Water Pump 2 Svc Recommended
621006	979CE	Mfr Maintenance Recommended - Compressor 1A
621007	979CF	Mfr Maintenance Recommended - Compressor 1B
621008	979D0	Mfr Maintenance Recommended - Compressor 1C
622006	97DB6	Mfr Maintenance Recommended - Compressor 2A
622007	97DB7	Mfr Maintenance Recommended - Compressor 2B
622008	97DB8	Mfr Maintenance Recommended - Compressor 2C
651001	9EEF9	Comm Loss: Hot Gas Bypass Valve - Circuit 1
651002	9EEFA	Comm Loss: Dynamic Receiver Fill Valve - Circuit 1
651003	9EEFB	Comm Loss: Liquid Line Temperature - Circuit 1
651004	9EEFC	Comm Loss: Liquid Line Pressure - Circuit 1
651005	9EEFD	Liquid Line Temperature Sensor - Circuit 1
651006	9EEFE	Liquid Line Pressure Transducer - Circuit 1
652001	9F2E1	Comm Loss: Hot Gas Bypass Valve - Circuit 2



Diagnostic Code (Decimal)	Diagnostic Code (Hex)	Diagnostic Name
652002	9F2E2	Comm Loss: Dynamic Receiver Fill Valve - Circuit 2
652003	9F2E3	Comm Loss: Liquid Line Temperature - Circuit 2
652004	9F2E4	Comm Loss: Liquid Line Pressure - Circuit 2
652005	9F2E5	Liquid Line Temperature Sensor - Circuit 2
652006	9F2E6	Liquid Line Pressure Transducer - Circuit 2
661001	A1609	SLHX Entering Temp Sensor - Circuit 1
661002	A160A	Comm Loss: SLHX Valve - Circuit 1
661003	A160B	Comm Loss: SLHX Entering Refrigerant Temp - Circuit 1
662001	A19F1	SLHX Entering Temp Sensor - Circuit 2
662002	A19F2	Comm Loss: SLHX Valve - Circuit 2
662003	A19F3	Comm Loss: SLHX Entering Refrigerant Temp - Circuit 2