Symbio™ 800 Integration Points List BACnet®

Series R® Model RTWD

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Reference Document: BAS-SVP083*-EN

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 Cool/Heat Setpoint Temperature	Indicates the presently in use Chilled/Hot Water Setpoint	Temperature	Standard
AI -10101	Active Demand Limit Setpoint	Indicates the presently in use or "active" setting of the Demand Limit. This does not include the effects of a startup demand limit softload target.	Percentage	Standard
AI -10102	Evaporator Entering Water Temperature	This is present Evaporator Entering or Return water temperature	Temperature	Standard
AI -10103	Evaporator Leaving Water Temperature	This is the temperature of the water leaving the evaporator, which is the primary control point for normal cooling mode of operation.	Temperature	Standard
AI -10104	Outdoor Air Temperature	The temperature of the outdoor air temperature sensor	Temperature	Standard
AI -10105	Number of Circuits	Number of Circuits	No Units	Standard
AI -10106	Number of Compressors, Circuit 1	Number of Compressors, Circuit 1	No Units	Standard
AI -10107	Number of Compressors, Circuit 2	Number of Compressors, Circuit 2	No Units	Standard
AI -10108	Actual Running Capacity	Actual chiller running capacity (same as Total Compressor Current %RLA)	Percentage	Standard
AI -10109	Evaporator Refrigerant Absolute Pressure Circuit 1	Evaporator Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
AI -10110	Condenser Refrigerant Absolute Pressure Circuit 1	Condenser Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
AI -10111	Differential Refrigerant Pressure Ckt1	Displays the differential pressure for the respective circuit as defined by (Condenser Pressure - Evaporator Pressure)	Pressure, Fluidic	Standard
AI -10112	Evaporator Shell Refrigerant Pressure Ckt1	Evaporator Shell Refrigerant Pressure Ckt1	Pressure, Fluidic	Evaporator Isolation Valves
AI -10113	Evaporator Saturated Rfgt Temp Ckt1	Displays the saturated temperature associated with the Evaporator Refrigerant Pressure of the respective circuit	Temperature	Standard
AI -10114	Condenser Saturated Rfgt Temp Ckt1	Displays the saturated temperature associated with the Condenser Refrigerant Pressure of the respective circuit.	Temperature	Standard
AI -10115	Discharge Temperature Cprsr1A	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Standard
AI -10116	Oil Absolute Pressure Cprsr1A	Absolute oil pressure for the compressor 1A	Pressure, Fluidic	Compressor 1A
AI -10117	Starts Cprsr1A	The total number of starts that the given compressor has experienced	No Units	Compressor 1A
AI -10118	Running Time Cprsr1A	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 1A
AI -10119	Evaporator Refrigerant Absolute Pressure Circuit 2	Evaporator Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
AI -10120	Condenser Refrigerant Absolute Pressure Circuit 2	Condenser Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
AI -10121	Differential Refrigerant Pressure Ckt2	Displays the differential pressure for the respective circuit as defined by (Condenser Pressure - Evaporator Pressure)	Pressure, Fluidic	Standard
AI -10122	Evaporator Shell Refrigerant Pressure Ckt2	Evaporator Shell Refrigerant Pressure Ckt2	Pressure, Fluidic	Evaporator Isolation Valves
AI -10123	Evaporator Saturated Rfgt Temp Ckt2	Displays the saturated temperature associated with the Evaporator Refrigerant Pressure of the respective circuit	Temperature	Standard

Object Identifier	Object Name	Description	Units	Configuration Dependency
AI -10124	Condenser Saturated Rfgt Temp Ckt2	Displays the saturated temperature associated with the Condenser Refrigerant Pressure of the respective circuit	Temperature	Standard
AI -10125	Compressor Suction Temperature	RTSF only: this is the compressor's suction temperature as read by a fast temperature sensor located in a well upstream of the compressor and computed to get a value which is used to estimate compressor suction superheat.	Temperature	RTSF
AI -10126	Discharge Temperature Cprsr2A	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Compressor 2A
AI -10127	Oil Absolute Pressure Cprsr2A	Absolute oil pressure for the compressor 2A	Pressure, Fluidic	Compressor 2A
AI -10128	Discharge Temperature Cprsr1B	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Compressor 1B
AI -10129	Oil Absolute Pressure Cprsr1B	Absolute oil pressure for the compressor 1B	Pressure, Fluidic	Compressor 1B
AI -10130	Starts Cprsr1B	The total number of starts that the given compressor has experienced	No Units	Compressor 1B
AI -10131	Running Time Cprsr1B	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 1B
AI -10132	Starts Cprsr2A	The total number of starts that the given compressor has experienced	No Units	Compressor 2A
AI -10133	Running Time Cprsr2A	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 2A
AI -10134	Discharge Temperature Cprsr2B	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Compressor 2B
AI -10135	Oil Absolute Pressure Cprsr2B	Absolute oil pressure for the compressor 2B	Pressure, Fluidic	Compressor 2B
AI -10136	Starts Cprsr2B	The total number of starts that the given compressor has experienced	No Units	Compressor 2B
AI -10137	Running Time Cprsr2B	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 2B
AI -10138	Motor Voltage AB Starter 1A	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
AI -10139	Motor Voltage AB Starter 1B	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
AI -10140	Motor Voltage AB Starter 2A	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
AI -10141	Motor Voltage AB Starter 2B	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
AI -10142	Oil Temperature Circuit 1	The oil temperature for the respective compressor.	Temperature	Oil Cooler
AI -10143	Oil Temperature Circuit 2	The oil temperature for the respective compressor.	Temperature	Oil Cooler
AI -10144	Condenser Entering Water Temperature	This is present Condenser Entering or Return water temperature	Temperature	Standard
AI -10145	Condenser Leaving Water Temperature	This is the temperature of the water leaving the Condenser, which is the primary control point for normal cooling or heating mode of operation.	Temperature	Standard

Object Identifier	Object Name	Description	Units	Configuration Dependency
AI -10146	Unit Power Consumption	Estimate of the total Chiller Power being presently utilized; it includes both compressor and fan power, but not circuit off-cycle power	Power, Electrical	Energy Meter
AI -10147	Energy Consumption NonReset	Cumulate energy consumption of unit.	Energy, Electrical	Energy Meter
AI -10148	Energy Consumption Resettable	Cumulate energy consumption of unit with possibility to reset to zero from front panel of BAS command.	Energy, Electrical	Energy Meter
AI -10149	Motor Current L1 Starter 1A	Motor current phase A in amps for the respective compressor.	Current	Starter 1A
AI -10150	Motor Current L2 Starter 1A	Motor current phase B in amps for the respective compressor.	Current	Starter 1A
AI -10151	Motor Current L3 Starter 1A	Motor current phase C in amps for the respective compressor.	Current	Starter 1A
AI -10152	Motor Current L1 % RLA Starter 1A	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 1A
AI -10153	Motor Current L2 % RLA Starter 1A	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 1A
AI -10154	Motor Current L3 % RLA Starter 1A	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 1A
AI -10155	Motor Current L1 Starter 2A	Motor current phase A in amps for the respective compressor.	Current	Starter 2A
AI -10156	Motor Current L2 Starter 2A	Motor current phase B in amps for the respective compressor.	Current	Starter 2A
AI -10157	Motor Current L3 Starter 2A	Motor current phase C in amps for the respective compressor.	Current	Starter 2A
AI -10158	Motor Current L1 % RLA Starter 2A	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 2A
AI -10159	Motor Current L2 % RLA Starter 2A	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 2A
AI -10160	Motor Current L3 % RLA Starter 2A	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 2A
AI -10161	Motor Current L1 Starter 1B	Motor current phase A in amps for the respective compressor.	Current	Starter 1B
AI -10162	Motor Current L2 Starter 1B	Motor current phase B in amps for the respective compressor.	Current	Starter 1B
AI -10163	Motor Current L3 Starter 1B	Motor current phase C in amps for the respective compressor.	Current	Starter 1B
AI -10164	Motor Current L1 % RLA Starter 1B	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 1B
AI -10165	Motor Current L2 % RLA Starter 1B	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 1B
AI -10166	Motor Current L3 % RLA Starter 1B	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 1B
AI -10167	Motor Current L1 Starter 2B	Motor current phase A in amps for the respective compressor.	Current	Starter 2B
AI -10168	Motor Current L2 Starter 2B	Motor current phase B in amps for the respective compressor.	Current	Starter 2B
AI -10169	Motor Current L3 Starter 2B	Motor current phase C in amps for the respective compressor.	Current	Starter 2B
AI -10170	Motor Current L1 % RLA Starter 2B	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 2B
AI -10171	Motor Current L2 % RLA Starter 2B	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 2B
AI -10172	Motor Current L3 % RLA Starter 2B	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 2B
AI -10173	Motor Current A Cprsr1A	Motor Current U AFD 1A	Current	GP4 w/Modbus AFD (TR200)
AI -10174	Motor Current B Cprsr1A	Motor Current V AFD 1A	Current	GP4 w/Modbus AFD (TR200)
AI -10175	Motor Current C Cprsr1A	Motor Current W AFD 1A	Current	GP4 w/Modbus AFD (TR200)
AI -10176	Motor % RLA A Cprsr1A	Motor Current U % RLA AFD 1A	Percentage	GP4 w/Modbus AFD (TR200)

Object Identifier	Object Name	Description	Units	Configuration Dependency
AI -10177	Motor % RLA B Cprsr1A	Motor Current V % RLA AFD 1A	Percentage	GP4 w/Modbus AFD (TR200)
AI -10178	Motor % RLA C Cprsr1A	Motor Current W % RLA AFD 1A	Percentage	GP4 w/Modbus AFD (TR200)
AI -10179	Motor Current A Cprsr2A	Motor Current U AFD 2A	Current	GP4 w/Modbus AFD (TR200)
AI -10180	Motor Current B Cprsr2A	Motor Current V AFD 2A	Current	GP4 w/Modbus AFD (TR200)
AI -10181	Motor Current C Cprsr2A	Motor Current W AFD 2A	Current	GP4 w/Modbus AFD (TR200)
AI -10182	Motor % RLA A Cprsr2A	Motor Current U % RLA AFD 2A	Percentage	GP4 w/Modbus AFD (TR200)
AI -10183	Motor % RLA B Cprsr2A	Motor Current V % RLA AFD 2A	Percentage	GP4 w/Modbus AFD (TR200)
AI -10184	Motor % RLA C Cprsr2A	Motor Current W % RLA AFD 2A	Percentage	GP4 w/Modbus AFD (TR200)
AI -10185	Average Motor Current % RLA AFD 1A	Motor average RLA for for the respective compressor.	Percentage	Modbus AFD (TR200)
AI -10186	Average Motor Current % RLA AFD 2A	Motor average RLA for for the respective compressor.	Percentage	Modbus AFD (TR200)
AI -10187	Unit Source ID (Last Diagnostic Code)	Last Logged Diagnostic Spec BAS	No Units	Standard
AI -10188	Chiller Design Capacity	Chiller Design Capacity	Power, Cooling	Standard
AI -10189	Active Chilled Water Setpoint	Indicates the presently in use Chilled Water Setpoint	Temperature	Standard
AI -10190	Active Hot Water Setpoint	Indicates the presently in use Hot Water Setpoint	Temperature	Hot Water Control
AI -10191	Unit Load Command	Unit Load Command	Percentage	Standard
AI -10192	Air Flow Percentage Circuit 1	Air Flow Ckt1	Percentage	RTUD
AI -10193	Air Flow Percentage Circuit 2	Air Flow Ckt2	Percentage	RTUD
AI -10194	Evaporator Refrigerant Pressure Circuit 1	Evaporator Gauge Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
AI -10195	Condenser Refrigerant Pressure Circuit 1	Condenser Gauge Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
AI -10196	Evaporator Refrigerant Pressure Circuit 2	Evaporator Gauge Refrigerant Pressure circuit 2	Pressure, Fluidic	Standard
AI -10197	Condenser Refrigerant Pressure Circuit 2	Condenser Gauge Refrigerant Pressure circuit 2	Pressure, Fluidic	Standard
AI -10198	Condenser Control Output	Condenser Head Pressure Control Output	Percentage	Head Pressure Control
AI -10199	Oil Pressure Cprsr1A	Gauge oil pressure for the compressor 1A	Pressure, Fluidic	Compressor 1A
AI -10200	Oil Pressure Cprsr2A	Gauge oil pressure for the compressor 2A	Pressure, Fluidic	Compressor 2A
AI -10201	Oil Pressure Cprsr1B	Gauge oil pressure for the compressor 1B	Pressure, Fluidic	Compressor 1B
AI -10202	Oil Pressure Cprsr2B	Gauge oil pressure for the compressor 2B	Pressure, Fluidic	Compressor 2B
AI -10203	Evaporator Approach Temperature Circuit 1	Evaporator Approach Temperature circuit 1	Temperature, Delta	Standard
AI -10204	Evaporator Approach Temperature Circuit 2	Evaporator Approach Temperature circuit 2	Temperature, Delta	Standard
AI -10205	Condenser Approach Temperature Circuit 1	Condenser Approach Temperature Circuit 1	Temperature, Delta	Standard
AI -10206	Condenser Approach Temperature Circuit 2	Condenser Approach Temperature Circuit 2	Temperature, Delta	Standard
AI -10207	Average Line Current Circuit 1	Average Line Current Meter 1	Current	Two Energy Meters
AI -10208	Average Line Current Circuit 2	Average Line Current Meter 2	Current	Two Energy Meters

Object Identifier	Object Name	Description	Units	Configuration Dependency
AI -10209	Average Line Voltage Circuit 1	Average Line Voltage Meter 1	Voltage	Two Energy Meters
AI -10210	Average Line Voltage Circuit 2	Average Line Voltage Meter 2	Voltage	Two Energy Meters
AI -10211	Line Current L1 Circuit 1	Line Current L1 Meter 1	Current	Two Energy Meters
AI -10212	Line Current L2 Circuit 1	Line Current L2 Meter 1	Current	Two Energy Meters
AI -10213	Line Current L3 Circuit 1	Line Current L3 Meter 1	Current	Two Energy Meters
AI -10214	Line Current L1 Circuit 2	Line Current L1 Meter 2	Current	Two Energy Meters
AI -10215	Line Current L2 Circuit 2	Line Current L3 Meter 2	Current	Two Energy Meters
AI -10216	Line Current L3 Circuit 2	Line Current L3 Meter 2	Current	Two Energy Meters
AI -10217	Voltage L1-L2 Circuit 1	Line Voltage L1-L2 Meter 1	Voltage	Two Energy Meters
AI -10218	Voltage L2-L3 Circuit 1	Line Voltage L2-L3 Meter 1	Voltage	Two Energy Meters
AI -10219	Voltage L1-L3 Circuit 1	Line Voltage L1-L3 Meter 1	Voltage	Two Energy Meters
AI -10220	Voltage L1-L2 Circuit 2	Line Voltage L1-L2 Meter 2	Voltage	Two Energy Meters
AI -10221	Voltage L2-L1 Circuit 2	Line Voltage L2-L3 Meter 2	Voltage	Two Energy Meters
AI -10222	Voltage L1-L3 Circuit 2	Line Voltage L1-L3 Meter 2	Voltage	Two Energy Meters
AI -10223	Line Frequency Circuit 1	Line Frequency Meter 1	None	Two Energy Meters
AI -10224	Line Frequency Circuit 2	Line Frequency Meter 2	None	Two Energy Meters
AI -10225	Power Factor Circuit 1	Power Factor Meter 1	None	Two Energy Meters
AI -10226	Power Factor Circuit 2	Power Factor Meter 2	None	Two Energy Meters
AI -10227	Power Demand Circuit 1	Power Demand Meter 1	Power, Electrical	Two Energy Meters
AI -10228	Power Demand Circuit 2	Power Demand Meter 2	Power, Electrical	Two Energy Meters
AI -10229	Power Factor	Unit Power Factor	None	One Energy Meter
AI -10230	Current L1	Meter Line Current L1	Current	One Energy Meter
AI -10231	Current L2	Meter Line Current L2	Current	One Energy Meter
AI -10232	Current L3	Meter Line Current L3	Current	One Energy Meter
AI -10233	Average Current	Meter Average Line Current	Current	One Energy Meter
AI -10234	Voltage L1-L2	Meter Line Voltage L1-L2	Voltage	One Energy Meter
AI -10235	Voltage L2-L3	Meter Line Voltage L2-L3	Voltage	One Energy Meter
AI -10236	Voltage L1-L3	Meter Line Voltage L1-L3	Voltage	One Energy Meter
AI -10237	Average Voltage L-L	Meter Average Line Voltage	Voltage	One Energy Meter
AI -10238	Line Frequency	Unit Line Frequency	None	One Energy Meter
AI -10239	Unit Power Demand	Chiller Power Demand	Power, Electrical	Power Monitor
AI -10240	Active Cooling Differential to Start	Indicates the presently in use Cooling Differential to Start Setpoint	Temperature, Delta	Standard

Object Identifier	Object Name	Description	Units	Configuration Dependency
AI -10241	Active Cooling Differential to Stop	Indicates the presently in use Cooling Differential to Stop Setpoint	Temperature, Delta	Standard
AI -10242	Active Heating Differential to Start	Indicates the presently in use Heating Differential to Start Setpoint	Temperature, Delta	Hot Water Control
AI -10243	Active Heating Differential to Stop	Indicates the presently in use Heating Differential to Stop Setpoint	Temperature, Delta	Hot Water Control

Object Identifier	Object Name	Description	Units	Configuration Dependency
AV-10100	Chilled Water Setpoint	Desired evaporator leaving water temperature if chiller is in cooling mode.	Temperature	Standard
AV-10101	Demand Limit Setpoint	Sets the maximum capacity that the chiller can use.	Percentage	Standard
AV-10102	Hot Water Setpoint	Desired condenser leaving water temperature if chiller is in heating mode.	Temperature	Hot Water Control
AV-10103	BAS Cooling Differential to Start	Desired Cooling Differential to Start if chiller is in cooling mode	Temperature, Delta	Standard
AV-10104	BAS Cooling Differential to Stop	Desired Cooling Differential to Stop if chiller is in cooling mode	Temperature, Delta	Standard
AV-10105	BAS Heating Differential to Start	Desired Heating Differential to Start if chiller is in heating mode	Temperature, Delta	Hot Water Control
AV-10106	BAS Heating Differential to Stop	Desired Heating Differential to Stop if chiller is in heating mode	Temperature, Delta	Hot Water Control

Object Identifier	Object Name	Description	Object States	Configuration Dependency
BI-10100	Run Enable	Indicates if the chiller is available to run or is currently running.	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10101	Local Setpoint Control	Indicates if the chiller is being controlled by local setpoints instead of BAS setpoints.	0 = Remote Control 1 = Local Control	Standard
BI-10102	Limit Mode Relay Status	Indicates if the Chiller is in a Limit mode.	0 = Off 1 = On	Standard
BI-10103	Chiller Running State	Indicates primary running mode of the chiller sequence	0 = Off 1 = On	Standard
BI-10104	Maximum Capacity	Indicates if al available chiller capacity is being used, follows same rules as external relay.	0 = Off 1 = On	Standard
BI-10105	Manual Override Exists	Indicates if there is a Manual Override active.	0 = Off 1 = On	Standard
BI-10106	Emergency Stop	Displays the Status of the Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
BI-10107	Evaporator Water Flow Status	Indication of water flow through the evaporator.	0 = No Flow 1 = Flow	Standard
BI-10108	Diagnostic Present	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
BI-10109	Diagnostic Shutdown Present	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
BI-10110	Diagnostic: Manual Reset Required	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10111	Diagnostic: Local Manual Reset Required	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
BI-10112	Diagnostic Present: Information	/eVar/Pltm1DiagPrsntInfo/	0 = Normal 1 = In Alarm	Standard
BI-10113	Diagnostic Present: Advisory	/eVar/Pltm1DiagPrsntAdvsry/	0 = Normal 1 = In Alarm	Standard
BI-10114	Diagnostic Present: Critical	/eVar/Pltm1DiagPrsntCrtcl/	0 = Normal 1 = In Alarm	Standard
BI-10115	Diagnostic Present: Service Required	/eVar/Pltm1DiagPrsntSvcRqrd/	0 = Normal 1 = In Alarm	Standard
BI-10116	Compressor 1A Running Status	Indicates running status of compressor 1A	0 = Stop 1 = Auto	Standard
BI-10117	Compressor 1B Running Status	Indicates running status of compressor 1B	0 = Stop 1 = Auto	Compressor 1B
BI-10118	Compressor 2A Running Status	Indicates running status of compressor 2A	0 = Stop 1 = Auto	Compressor 2A
BI-10119	Compressor 2B Running Status	Indicates running status of compressor 2B	0 = Stop 1 = Auto	Compressor 2B
BI-10120	External Auto Stop	Status of External Auto Stop input.	0 = Stop 1 = Auto	Standard

Object Identifier	Object Name	Description	Object States	Configuration Dependency
BI-10121	Condenser Water Pump Command	This provides a status of the Chillers Condenser Water Pump output.	0 = Inactive 1 = Active	Standard
BI-10122	Evaporator Water Pump Command	This provides a status of the Chillers Evaporator Water Pump output.	0 = Off 1 = On	Standard
BI-10123	Condenser Water Flow Status	Indication of water flow through the condenser	0 = Inactive 1 = Active	Standard
BI-10124	Front Panel Auto Stop Status	Status of Front Auto Stop input.	0 = Stop 1 = Auto	Standard
BI-10125	Circuit Manual Reset Indicator (CMR) Ckt1	Indicates whether or not there is an alarm present that is keeping the circuit 1 from running.	0 = Inactive 1 = Active	Standard
BI-10126	Circuit Manual Reset Indicator (CMR) Ckt2	Indicates whether or not there is an alarm present that is keeping the circuit 2 from running.	0 = Inactive 1 = Active	Circuit 2
BI-10127	Circuit Auto Reset Indicator (CAR) Ckt1	Indicates whether or not there is non-latching alarm present on circuit 1	0 = Inactive 1 = Active	Standard
BI-10128	Circuit Auto Reset Indicator (CAR) Ckt2	Indicates whether or not there is non-latching alarm present on circuit 2	0 = Inactive 1 = Active	Circuit 2
BI-10129	Head Pressure Relief Request	Head Relief Request Relay	0 = Normal 1 = Locked Out	Standard
BI-10130	Alarm - General Latching Unit	Latching alarm is present so that it disable the total capacity of the unit	0 = Normal 1 = In Alarm	Standard
BI-10131	Alarm - General Non Latching Unit	At least one Non-Latching alarm is present so that it disable the total capacity of the unit	0 = Normal 1 = In Alarm	Standard
BI-10132	Alarm - General Latching Ckt1	Latching alarm is present so that it disable the total capacity of the circuit 1	0 = Normal 1 = In Alarm	Standard
BI-10133	Alarm - General Latching Ckt2	Latching alarm is present so that it disable the total capacity of the circuit 2	0 = Normal 1 = In Alarm	Circuit 2
BI-10134	Alarm - General Non Latching Ckt1	At least one Non-Latching alarm is present so that it disable the total capacity of the circuit 1	0 = Normal 1 = In Alarm	Standard
BI-10135	Alarm - General Non Latching Ckt2	At least one Non-Latching alarm is present so that it disable the total capacity of the circuit 2	0 = Normal 1 = In Alarm	Circuit 2
BI-10136	Noise Reduction Request Active	Status of Noise Reduction Request	0 = Off 1 = On	Noise Reduction

Object Identifier	Object Name	Object States
BI-11000	Comm Loss: %RLA Indication Output (Vdc)	0 = Normal 1 = In Alarm
BI-11001	Comm Loss: AFD 1A	0 = Normal 1 = In Alarm
BI-11002	Comm Loss: AFD 2A	0 = Normal 1 = In Alarm
BI-11003	Comm Loss: AFD Fault Input 1A	0 = Normal 1 = In Alarm
BI-11004	Comm Loss: AFD Fault Input 1B	0 = Normal 1 = In Alarm
BI-11005	Comm Loss: AFD Fault Input 2A	0 = Normal 1 = In Alarm
BI-11006	Comm Loss: AFD Fault Input 2B	0 = Normal 1 = In Alarm
BI-11007	Comm Loss: AFD Run Command 1A	0 = Normal 1 = In Alarm
BI-11008	Comm Loss: AFD Run Command 2A	0 = Normal 1 = In Alarm
BI-11009	Comm Loss: AFD Speed Command 1A	0 = Normal 1 = In Alarm
BI-11010	Comm Loss: AFD Speed Command 1B	0 = Normal 1 = In Alarm
BI-11011	Comm Loss: AFD Speed Command 2A	0 = Normal 1 = In Alarm
BI-11012	Comm Loss: AFD Speed Command 2B	0 = Normal 1 = In Alarm
BI-11013	Comm Loss: AOC Inlet Oil Temperature 1A	0 = Normal 1 = In Alarm
BI-11014	Comm Loss: AOC Inlet Oil Temperature 2A	0 = Normal 1 = In Alarm
BI-11015	Comm Loss: Auxiliary Setpoint Command	0 = Normal 1 = In Alarm
BI-11016	Comm Loss: Chiller Bypass Valve Output	0 = Normal 1 = In Alarm
BI-11017	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm
BI-11018	Comm Loss: Cond Rfgt Liquid Level Ckt1	0 = Normal 1 = In Alarm
BI-11019	Comm Loss: Cond Rfgt Liquid Level Ckt2	0 = Normal 1 = In Alarm
BI-11020	Comm Loss: Cond Water Pump Analog Output	0 = Normal 1 = In Alarm
BI-11021	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm
BI-11022	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11023	Comm Loss: Condenser Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
BI-11024	Comm Loss: Condenser Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm
BI-11025	Comm Loss: Condenser Rfgt Pressure Output	0 = Normal 1 = In Alarm
BI-11026	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm
BI-11027	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm
BI-11028	Comm Loss: Cprsr Disch Rfgt Temp 1A	0 = Normal 1 = In Alarm
BI-11029	Comm Loss: Cprsr Disch Rfgt Temp 1B	0 = Normal 1 = In Alarm
BI-11030	Comm Loss: Cprsr Disch Rfgt Temp 2A	0 = Normal 1 = In Alarm
BI-11031	Comm Loss: Cprsr Disch Rfgt Temp 2B	0 = Normal 1 = In Alarm
BI-11032	Comm Loss: Electronic Expansion Valve Ckt1	0 = Normal 1 = In Alarm
BI-11033	Comm Loss: Electronic Expansion Valve Ckt2	0 = Normal 1 = In Alarm
BI-11034	Comm Loss: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI-11035	Comm Loss: Energy Meter Pulse Input	0 = Normal 1 = In Alarm
BI-11036	Comm Loss: Evap Entering Water Pressure	0 = Normal 1 = In Alarm
BI-11037	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm
BI-11038	Comm Loss: Evap Iso Valve Close Switch Ckt1	0 = Normal 1 = In Alarm
BI-11039	Comm Loss: Evap Iso Valve Close Switch Ckt2	0 = Normal 1 = In Alarm
BI-11040	Comm Loss: Evap Iso Valve Open Switch Ckt1	0 = Normal 1 = In Alarm
BI-11041	Comm Loss: Evap Iso Valve Open Switch Ckt2	0 = Normal 1 = In Alarm
BI-11042	Comm Loss: Evap Isolation Valve Relay Ckt1	0 = Normal 1 = In Alarm
BI-11043	Comm Loss: Evap Isolation Valve Relay Ckt2	0 = Normal 1 = In Alarm
BI-11044	Comm Loss: Evap Leaving Water Pressure	0 = Normal 1 = In Alarm
BI-11045	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11046	Comm Loss: Evap Oil Return Level Ckt1	0 = Normal 1 = In Alarm
BI-11047	Comm Loss: Evap Oil Return Level Ckt2	0 = Normal 1 = In Alarm
BI-11048	Comm Loss: Evap Pump Inv1 Fault Input	0 = Normal 1 = In Alarm
BI-11049	Comm Loss: Evap Pump Inv1 Run Command	0 = Normal 1 = In Alarm
BI-11050	Comm Loss: Evap Rfgt Liquid Level Ckt1	0 = Normal 1 = In Alarm
BI-11051	Comm Loss: Evap Rfgt Liquid Level Ckt2	0 = Normal 1 = In Alarm
BI-11052	Comm Loss: Evap Rfgt Pool Temp Ckt1	0 = Normal 1 = In Alarm
BI-11053	Comm Loss: Evap Rfgt Pool Temp Ckt2	0 = Normal 1 = In Alarm
BI-11054	Comm Loss: Evap Shell Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm
BI-11055	Comm Loss: Evap Shell Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
BI-11056	Comm Loss: Evap Water Pump Analog Output	0 = Normal 1 = In Alarm
BI-11057	Comm Loss: Evap Water Pump Inv Freq Input	0 = Normal 1 = In Alarm
BI-11058	Comm Loss: Evaporator Pump 1 Fault Input	0 = Normal 1 = In Alarm
BI-11059	Comm Loss: Evaporator Pump 2 Fault Input	0 = Normal 1 = In Alarm
BI-11060	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm
BI-11061	Comm Loss: Evaporator Water Pump 1 Relay	0 = Normal 1 = In Alarm
BI-11062	Comm Loss: Evaporator Water Pump 2 Relay	0 = Normal 1 = In Alarm
BI-11063	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
BI-11064	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI-11065	Comm Loss: Ext Noise Reduction Request	0 = Normal 1 = In Alarm
BI-11066	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm
BI-11067	Comm Loss: External Ckt2 Lockout	0 = Normal 1 = In Alarm
BI-11068	Comm Loss: External Ckt1 Lockout	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11069	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm
BI-11070	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm
BI-11071	Comm Loss: Fan Control Relays, Ckt1	0 = Normal 1 = In Alarm
BI-11072	Comm Loss: Fan Control Relays, Ckt2	0 = Normal 1 = In Alarm
BI-11073	Comm Loss: Fan Inverter Fault Ckt1	0 = Normal 1 = In Alarm
BI-11074	Comm Loss: Fan Inverter Fault Ckt2	0 = Normal 1 = In Alarm
BI-11075	Comm Loss: Fan Inverter Speed Command Ckt1	0 = Normal 1 = In Alarm
BI-11076	Comm Loss: Fan Inverter Speed Command Ckt2	0 = Normal 1 = In Alarm
BI-11077	Comm Loss: High Pressure Cutout Sw 1A	0 = Normal 1 = In Alarm
BI-11078	Comm Loss: High Pressure Cutout Sw 1B	0 = Normal 1 = In Alarm
BI-11079	Comm Loss: High Pressure Cutout Sw 2A	0 = Normal 1 = In Alarm
BI-11080	Comm Loss: High Pressure Cutout Sw 2B	0 = Normal 1 = In Alarm
BI-11081	Comm Loss: High Pressure Cutout Switch Ckt2	0 = Normal 1 = In Alarm
BI-11082	Comm Loss: High Pressure Cutout Switch Ckt1	0 = Normal 1 = In Alarm
BI-11083	Comm Loss: HR Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11084	Comm Loss: HR Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11085	Comm Loss: Ice Building Status Relay	0 = Normal 1 = In Alarm
BI-11086	Comm Loss: Liquid Line Pressure Ckt1	0 = Normal 1 = In Alarm
BI-11087	Comm Loss: Liquid Line Pressure Ckt2	0 = Normal 1 = In Alarm
BI-11088	Comm Loss: Liquid Line Temperature Ckt1	0 = Normal 1 = In Alarm
BI-11089	Comm Loss: Liquid Line Temperature Ckt2	0 = Normal 1 = In Alarm
BI-11090	Comm Loss: Motor RLA Input 1A	0 = Normal 1 = In Alarm
BI-11091	Comm Loss: Motor RLA Input 1B	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11092	Comm Loss: Motor RLA Input 2A	0 = Normal 1 = In Alarm
BI-11093	Comm Loss: Motor RLA Input 2B	0 = Normal 1 = In Alarm
BI-11094	Comm Loss: Motor Winding Tstat Cprsr1A	0 = Normal 1 = In Alarm
BI-11095	Comm Loss: Motor Winding Tstat Cprsr2A	0 = Normal 1 = In Alarm
BI-11096	Comm Loss: Noise Reduction Request Relay Ckt1	0 = Normal 1 = In Alarm
BI-11097	Comm Loss: Noise Reduction Request Relay Ckt2	0 = Normal 1 = In Alarm
BI-11098	Comm Loss: Off-cycle Freeze Prot Relay	0 = Normal 1 = In Alarm
BI-11099	Comm Loss: Oil Heater Relay 1A	0 = Normal 1 = In Alarm
BI-11100	Comm Loss: Oil Heater Relay 2A	0 = Normal 1 = In Alarm
BI-11101	Comm Loss: Oil Loss Level Sensor Input Ckt1	0 = Normal 1 = In Alarm
BI-11102	Comm Loss: Oil Loss Level Sensor Input Ckt2	0 = Normal 1 = In Alarm
BI-11103	Comm Loss: Oil Pressure 1A	0 = Normal 1 = In Alarm
BI-11104	Comm Loss: Oil Pressure 1B	0 = Normal 1 = In Alarm
BI-11105	Comm Loss: Oil Pressure 2A	0 = Normal 1 = In Alarm
BI-11106	Comm Loss: Oil Pressure 2B	0 = Normal 1 = In Alarm
BI-11107	Comm Loss: Oil Return Gas Pump Drain Ckt1	0 = Normal 1 = In Alarm
BI-11108	Comm Loss: Oil Return Gas Pump Drain Ckt2	0 = Normal 1 = In Alarm
BI-11109	Comm Loss: Oil Return Gas Pump Fill Ckt1	0 = Normal 1 = In Alarm
BI-11110	Comm Loss: Oil Return Gas Pump Fill Ckt2	0 = Normal 1 = In Alarm
BI-11111	Comm Loss: Oil Return Purge Valve Ckt1	0 = Normal 1 = In Alarm
BI-11112	Comm Loss: Oil Return Purge Valve Ckt2	0 = Normal 1 = In Alarm
BI-11113	Comm Loss: Oil Temp, Ckt 1	0 = Normal 1 = In Alarm
BI-11114	Comm Loss: Oil Temp, Ckt 2	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11115	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm
BI-11116	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm
BI-11117	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm
BI-11118	Comm Loss: Reversing Valve	0 = Normal 1 = In Alarm
BI-11119	Comm Loss: Slide Valve Load 1A	0 = Normal 1 = In Alarm
BI-11120	Comm Loss: Slide Valve Load 1B	0 = Normal 1 = In Alarm
BI-11121	Comm Loss: Slide Valve Load 2A	0 = Normal 1 = In Alarm
BI-11122	Comm Loss: Slide Valve Load 2B	0 = Normal 1 = In Alarm
BI-11123	Comm Loss: Slide Valve Unload 1A	0 = Normal 1 = In Alarm
BI-11124	Comm Loss: Slide Valve Unload 1B	0 = Normal 1 = In Alarm
BI-11125	Comm Loss: Slide Valve Unload 2A	0 = Normal 1 = In Alarm
BI-11126	Comm Loss: Slide Valve Unload 2B	0 = Normal 1 = In Alarm
BI-11127	Comm Loss: Starter 1A	0 = Normal 1 = In Alarm
BI-11128	Comm Loss: Starter 1B	0 = Normal 1 = In Alarm
BI-11129	Comm Loss: Starter 2A	0 = Normal 1 = In Alarm
BI-11130	Comm Loss: Starter 2B	0 = Normal 1 = In Alarm
BI-11131	Comm Loss: Step Load 1A	0 = Normal 1 = In Alarm
BI-11132	Comm Loss: Step Load 1B	0 = Normal 1 = In Alarm
BI-11133	Comm Loss: Step Load 2A	0 = Normal 1 = In Alarm
BI-11134	Comm Loss: Step Load 2B	0 = Normal 1 = In Alarm
BI-11135	Comm Loss: Suction Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
BI-11136	Comm Loss: Suction Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm
BI-11137	Comm Loss: Suction Rfgt Pressure 1A	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11138	Comm Loss: Suction Rfgt Pressure 1B	0 = Normal 1 = In Alarm
BI-11139	Comm Loss: Suction Rfgt Pressure 2A	0 = Normal 1 = In Alarm
BI-11140	Comm Loss: Suction Rfgt Pressure 2B	0 = Normal 1 = In Alarm
BI-11141	Comm Loss: Suction Temperature	0 = Normal 1 = In Alarm
BI-11142	Comm Loss: Water System Diff Pressure	0 = Normal 1 = In Alarm
BI-11143	Comm Loss: Winding Temp 1, Cprsr1A	0 = Normal 1 = In Alarm
BI-11144	Comm Loss: Winding Temp 1, Cprsr2A	0 = Normal 1 = In Alarm
BI-11145	Comm Loss: Winding Temp 2, Cprsr1A	0 = Normal 1 = In Alarm
BI-11146	Diagnostic: AFD %RLA Feedback 1A	0 = Normal 1 = In Alarm
BI-11147	Diagnostic: AFD %RLA Feedback 1B	0 = Normal 1 = In Alarm
BI-11148	Diagnostic: AFD %RLA Feedback 2A	0 = Normal 1 = In Alarm
BI-11149	Diagnostic: AFD %RLA Feedback 2B	0 = Normal 1 = In Alarm
BI-11150	Diagnostic: AFD Bump Complete 1A	0 = Normal 1 = In Alarm
BI-11151	Diagnostic: AFD Bump Complete 2A	0 = Normal 1 = In Alarm
BI-11152	Diagnostic: AFD Bump Current High 1A	0 = Normal 1 = In Alarm
BI-11153	Diagnostic: AFD Bump Current High 2A	0 = Normal 1 = In Alarm
BI-11154	Diagnostic: AFD Comm Loss – 1A	0 = Normal 1 = In Alarm
BI-11155	Diagnostic: AFD Comm Loss – 1B	0 = Normal 1 = In Alarm
BI-11156	Diagnostic: AFD Comm Loss – 2A	0 = Normal 1 = In Alarm
BI-11157	Diagnostic: AFD Comm Loss – 2B	0 = Normal 1 = In Alarm
BI-11158	Diagnostic: AFD Failure to Arm or Start 1A	0 = Normal 1 = In Alarm
BI-11159	Diagnostic: AFD Failure to Arm or Start 1B	0 = Normal 1 = In Alarm
BI-11160	Diagnostic: AFD Failure to Arm or Start 2A	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11161	Diagnostic: AFD Failure to Arm or Start 2B	0 = Normal 1 = In Alarm
BI-11162	Diagnostic: AFD Fault 1A	0 = Normal 1 = In Alarm
BI-11163	Diagnostic: AFD Fault 1B	0 = Normal 1 = In Alarm
BI-11164	Diagnostic: AFD Fault 2A	0 = Normal 1 = In Alarm
BI-11165	Diagnostic: AFD Fault 2B	0 = Normal 1 = In Alarm
BI-11166	Diagnostic: AFD Fault Mains 1A	0 = Normal 1 = In Alarm
BI-11167	Diagnostic: AFD Fault Mains 2A	0 = Normal 1 = In Alarm
BI-11168	Diagnostic: AFD Harmonic Filter Over Temperature 1A	0 = Normal 1 = In Alarm
BI-11169	Diagnostic: AFD Harmonic Filter Over Temperature 2A	0 = Normal 1 = In Alarm
BI-11170	Diagnostic: AFD High Pressure Cutout 1A	0 = Normal 1 = In Alarm
BI-11171	Diagnostic: AFD High Pressure Cutout 2A	0 = Normal 1 = In Alarm
BI-11172	Diagnostic: AFD Interrupt Failure 1A	0 = Normal 1 = In Alarm
BI-11173	Diagnostic: AFD Interrupt Failure 2A	0 = Normal 1 = In Alarm
BI-11174	Diagnostic: AFD Motor Current Overload 1A	0 = Normal 1 = In Alarm
BI-11175	Diagnostic: AFD Motor Current Overload 1B	0 = Normal 1 = In Alarm
BI-11176	Diagnostic: AFD Motor Current Overload 2A	0 = Normal 1 = In Alarm
BI-11177	Diagnostic: AFD Motor Current Overload 2B	0 = Normal 1 = In Alarm
BI-11178	Diagnostic: AFD Motor Fault 1A	0 = Normal 1 = In Alarm
BI-11179	Diagnostic: AFD Motor Fault 2A	0 = Normal 1 = In Alarm
BI-11180	Diagnostic: AFD Motor Speed Too High 1A	0 = Normal 1 = In Alarm
BI-11181	Diagnostic: AFD Motor Speed Too High 2A	0 = Normal 1 = In Alarm
BI-11182	Diagnostic: AFD Motor Speed Too Low 1A	0 = Normal 1 = In Alarm
BI-11183	Diagnostic: AFD Motor Speed Too Low 2A	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11184	Diagnostic: AFD Pump Out Speed Low 1A	0 = Normal 1 = In Alarm
BI-11185	Diagnostic: AFD Pump Out Speed Low 2A	0 = Normal 1 = In Alarm
BI-11186	Diagnostic: AFD Unexpected Shutdown 1A	0 = Normal 1 = In Alarm
BI-11187	Diagnostic: AFD Unexpected Shutdown 2A	0 = Normal 1 = In Alarm
BI-11188	Diagnostic: AFD Unhandled Fault 1A	0 = Normal 1 = In Alarm
BI-11189	Diagnostic: AFD Unhandled Fault 2A	0 = Normal 1 = In Alarm
BI-11190	Diagnostic: AOC Inlet Oil Temperature Sensor 1A	0 = Normal 1 = In Alarm
BI-11191	Diagnostic: AOC Inlet Oil Temperature Sensor 2A	0 = Normal 1 = In Alarm
BI-11192	Diagnostic: Check Clock	0 = Normal 1 = In Alarm
BI-11193	Diagnostic: Chiller Service Recommended	0 = Normal 1 = In Alarm
BI-11194	Diagnostic: Comm Loss: Winding Temp 2, Cprsr2A	0 = Normal 1 = In Alarm
BI-11195	Diagnostic: Cond Rfgt Liquid Level Sensor Ckt1	0 = Normal 1 = In Alarm
BI-11196	Diagnostic: Cond Rfgt Liquid Level Sensor Ckt2	0 = Normal 1 = In Alarm
BI-11197	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11198	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11199	Diagnostic: Condenser Rfgt Pressure Sensor Ckt2	0 = Normal 1 = In Alarm
BI-11200	Diagnostic: Condenser Rfgt Pressure Sensor Ckt1	0 = Normal 1 = In Alarm
BI-11201	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm
BI-11202	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm
BI-11203	Diagnostic: Cprsr Did Not Accel: Shutdown 1A	0 = Normal 1 = In Alarm
BI-11204	Diagnostic: Cprsr Did Not Accel: Shutdown 1B	0 = Normal 1 = In Alarm
BI-11205	Diagnostic: Cprsr Did Not Accel: Shutdown 2A	0 = Normal 1 = In Alarm
BI-11206	Diagnostic: Cprsr Did Not Accel: Shutdown 2B	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11207	Diagnostic: Cprsr Did Not Accel: Transition 1A	0 = Normal 1 = In Alarm
BI-11208	Diagnostic: Cprsr Did Not Accel: Transition 1B	0 = Normal 1 = In Alarm
BI-11209	Diagnostic: Cprsr Did Not Accel: Transition 2A	0 = Normal 1 = In Alarm
BI-11210	Diagnostic: Cprsr Did Not Accel: Transition 2B	0 = Normal 1 = In Alarm
BI-11211	Diagnostic: Cprsr Disch Rfgt Temp Sensor 1A	0 = Normal 1 = In Alarm
BI-11212	Diagnostic: Cprsr Disch Rfgt Temp Sensor 1B	0 = Normal 1 = In Alarm
BI-11213	Diagnostic: Cprsr Disch Rfgt Temp Sensor 2A	0 = Normal 1 = In Alarm
BI-11214	Diagnostic: Cprsr Disch Rfgt Temp Sensor 2B	0 = Normal 1 = In Alarm
BI-11215	Diagnostic: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI-11216	Diagnostic: Evap Iso Valve Illegal Switch State Ckt1	0 = Normal 1 = In Alarm
BI-11217	Diagnostic: Evap Iso Valve Illegal Switch State Ckt2	0 = Normal 1 = In Alarm
BI-11218	Diagnostic: Evap Isolation Valve Closed Switch Failure Ckt1	0 = Normal 1 = In Alarm
BI-11219	Diagnostic: Evap Isolation Valve Closed Switch Failure Ckt2	0 = Normal 1 = In Alarm
BI-11220	Diagnostic: Evap Isolation Valve Failed To Close Ckt1	0 = Normal 1 = In Alarm
BI-11221	Diagnostic: Evap Isolation Valve Failed To Close Ckt2	0 = Normal 1 = In Alarm
BI-11222	Diagnostic: Evap Isolation Valve Failed To Open Ckt1	0 = Normal 1 = In Alarm
BI-11223	Diagnostic: Evap Isolation Valve Failed To Open Ckt2	0 = Normal 1 = In Alarm
BI-11224	Diagnostic: Evap Isolation Valve Open Switch Failure Ckt1	0 = Normal 1 = In Alarm
BI-11225	Diagnostic: Evap Isolation Valve Open Switch Failure Ckt2	0 = Normal 1 = In Alarm
BI-11226	Diagnostic: Evap Pump 1 Starts Run time Written	0 = Normal 1 = In Alarm
BI-11227	Diagnostic: Evap Pump 2 Starts Run time Written	0 = Normal 1 = In Alarm
BI-11228	Diagnostic: Evap Rfgt Pool Temp Sensor Ckt1	0 = Normal 1 = In Alarm
BI-11229	Diagnostic: Evap Rfgt Pool Temp Sensor Ckt2	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11230	Diagnostic: Evap Rfgt Pool Temp Sensor Error Ckt1	0 = Normal 1 = In Alarm
BI-11231	Diagnostic: Evap Rfgt Pool Temp Sensor Error Ckt2	0 = Normal 1 = In Alarm
BI-11232	Diagnostic: Evap Spillover Liquid Level Sensor Ckt1	0 = Normal 1 = In Alarm
BI-11233	Diagnostic: Evap Spillover Liquid Level Sensor Ckt2	0 = Normal 1 = In Alarm
BI-11234	Diagnostic: Evap Water Pump 1 Svc Recommended	0 = Normal 1 = In Alarm
BI-11235	Diagnostic: Evap Water Pump 2 Svc Recommended	0 = Normal 1 = In Alarm
BI-11236	Diagnostic: Evaporator Approach Error Ckt2	0 = Normal 1 = In Alarm
BI-11237	Diagnostic: Evaporator Approach Error Ckt1	0 = Normal 1 = In Alarm
BI-11238	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
BI-11239	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11240	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
BI-11241	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11242	Diagnostic: Evaporator Oil Return Level Sensor, Ckt1	0 = Normal 1 = In Alarm
BI-11243	Diagnostic: Evaporator Oil Return Level Sensor, Ckt2	0 = Normal 1 = In Alarm
BI-11244	Diagnostic: Evaporator Pump 1 Fault	0 = Normal 1 = In Alarm
BI-11245	Diagnostic: Evaporator Pump 2 Fault	0 = Normal 1 = In Alarm
BI-11246	Diagnostic: Evaporator Shell Rfgt Pressure Sensor Ckt1	0 = Normal 1 = In Alarm
BI-11247	Diagnostic: Evaporator Shell Rfgt Pressure Sensor Ckt2	0 = Normal 1 = In Alarm
BI-11248	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm
BI-11249	Diagnostic: Evaporator Water Flow Lost Pump1	0 = Normal 1 = In Alarm
BI-11250	Diagnostic: Evaporator Water Flow Lost Pump2	0 = Normal 1 = In Alarm
BI-11251	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm
BI-11252	Diagnostic: Evaporator Water Flow Overdue Pump1	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11253	Diagnostic: Evaporator Water Flow Overdue Pump2	0 = Normal 1 = In Alarm
BI-11254	Diagnostic: Excessive Condenser Pressure Ckt2	0 = Normal 1 = In Alarm
BI-11255	Diagnostic: Excessive Condenser Pressure Ckt1	0 = Normal 1 = In Alarm
BI-11256	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
BI-11257	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI-11258	Diagnostic: EXV Pressure Equalization Failed Ckt1	0 = Normal 1 = In Alarm
BI-11259	Diagnostic: EXV Pressure Equalization Failed Ckt2	0 = Normal 1 = In Alarm
BI-11260	Diagnostic: Fan Inverter Fault Ckt1	0 = Normal 1 = In Alarm
BI-11261	Diagnostic: Fan Inverter Fault Ckt2	0 = Normal 1 = In Alarm
BI-11262	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11263	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11264	Diagnostic: GP4Vvi High Cprsr Rfgt Discharge Temp 1A	0 = Normal 1 = In Alarm
BI-11265	Diagnostic: High Cprsr Rfgt Discharge Temp 1A	0 = Normal 1 = In Alarm
BI-11266	Diagnostic: High Cprsr Rfgt Discharge Temp 1B	0 = Normal 1 = In Alarm
BI-11267	Diagnostic: GP4Vvi High Cprsr Rfgt Discharge Temp 2A	0 = Normal 1 = In Alarm
BI-11268	Diagnostic: High Cprsr Rfgt Discharge Temp 2A	0 = Normal 1 = In Alarm
BI-11269	Diagnostic: High Cprsr Rfgt Discharge Temp 2B	0 = Normal 1 = In Alarm
BI-11270	Diagnostic: High Differential Refrigerant Pressure	0 = Normal 1 = In Alarm
BI-11271	Diagnostic: High Differential Rfgt Pressure 1A	0 = Normal 1 = In Alarm
BI-11272	Diagnostic: High Differential Rfgt Pressure 1B	0 = Normal 1 = In Alarm
BI-11273	Diagnostic: High Differential Rfgt Pressure 2A	0 = Normal 1 = In Alarm
BI-11274	Diagnostic: High Differential Rfgt Pressure 2B	0 = Normal 1 = In Alarm
BI-11275	Diagnostic: High Evap Shell Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11276	Diagnostic: High Evap Shell Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
BI-11277	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI-11278	Diagnostic: High Motor Winding Temperature 1A	0 = Normal 1 = In Alarm
BI-11279	Diagnostic: High Motor Winding Temperature 2A	0 = Normal 1 = In Alarm
BI-11280	Diagnostic: High Motor Winding Temperature Cprsr1A	0 = Normal 1 = In Alarm
BI-11281	Diagnostic: High Motor Winding Temperature Cprsr2A	0 = Normal 1 = In Alarm
BI-11282	Diagnostic: High Oil Temperature Ckt1	0 = Normal 1 = In Alarm
BI-11283	Diagnostic: High Oil Temperature Ckt2	0 = Normal 1 = In Alarm
BI-11284	Diagnostic: High Pressure Cutout Ckt2	0 = Normal 1 = In Alarm
BI-11285	Diagnostic: High Pressure Cutout Ckt1	0 = Normal 1 = In Alarm
BI-11286	Diagnostic: High Pressure Cutout 1A	0 = Normal 1 = In Alarm
BI-11287	Diagnostic: High Pressure Cutout 1B	0 = Normal 1 = In Alarm
BI-11288	Diagnostic: High Pressure Cutout 2A	0 = Normal 1 = In Alarm
BI-11289	Diagnostic: High Pressure Cutout 2B	0 = Normal 1 = In Alarm
BI-11290	Diagnostic: High Refrigerant Pressure Ratio	0 = Normal 1 = In Alarm
BI-11291	Diagnostic: High Refrigerant Pressure Ratio 1A	0 = Normal 1 = In Alarm
BI-11292	Diagnostic: High Refrigerant Pressure Ratio 1B	0 = Normal 1 = In Alarm
BI-11293	Diagnostic: High Refrigerant Pressure Ratio 2A	0 = Normal 1 = In Alarm
BI-11294	Diagnostic: High Refrigerant Pressure Ratio 2B	0 = Normal 1 = In Alarm
BI-11295	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI-11296	Diagnostic: Liquid Line Pressure Sensor Ckt1	0 = Normal 1 = In Alarm
BI-11297	Diagnostic: Liquid Line Pressure Sensor Ckt2	0 = Normal 1 = In Alarm
BI-11298	Diagnostic: Liquid Line Temp Sensor Ckt1	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11299	Diagnostic: Liquid Line Temp Sensor Ckt2	0 = Normal 1 = In Alarm
BI-11300	Diagnostic: Loss of Oil for Compressor (Running) Ckt1	0 = Normal 1 = In Alarm
BI-11301	Diagnostic: Loss of Oil for Compressor (Running) Ckt2	0 = Normal 1 = In Alarm
BI-11302	Diagnostic: Loss of Oil for Compressor (Stopped) Ckt1	0 = Normal 1 = In Alarm
BI-11303	Diagnostic: Loss of Oil for Compressor (Stopped) Ckt2	0 = Normal 1 = In Alarm
BI-11304	Diagnostic: Low Condenser Rfgt Temp Ckt 1: Unit Off	0 = Normal 1 = In Alarm
BI-11305	Diagnostic: Low Condenser Rfgt Temp Ckt 2: Unit Off	0 = Normal 1 = In Alarm
BI-11306	Diagnostic: Low Differential Rfgt Pressure 1A	0 = Normal 1 = In Alarm
BI-11307	Diagnostic: Low Differential Rfgt Pressure 1B	0 = Normal 1 = In Alarm
BI-11308	Diagnostic: Low Differential Rfgt Pressure 2A	0 = Normal 1 = In Alarm
BI-11309	Diagnostic: Low Differential Rfgt Pressure 2B	0 = Normal 1 = In Alarm
BI-11310	Diagnostic: Low Discharge Superheat 1A	0 = Normal 1 = In Alarm
BI-11311	Diagnostic: Low Discharge Superheat 1B	0 = Normal 1 = In Alarm
BI-11312	Diagnostic: Low Discharge Superheat 2A	0 = Normal 1 = In Alarm
BI-11313	Diagnostic: Low Discharge Superheat 2B	0 = Normal 1 = In Alarm
BI-11314	Diagnostic: Low Evaporator Oil Return Level Ckt1	0 = Normal 1 = In Alarm
BI-11315	Diagnostic: Low Evaporator Oil Return Level Ckt2	0 = Normal 1 = In Alarm
BI-11316	Diagnostic: Low Evaporator Refrigerant Pressure Ckt1	0 = Normal 1 = In Alarm
BI-11317	Diagnostic: Low Evaporator Refrigerant Pressure Ckt2	0 = Normal 1 = In Alarm
BI-11318	Diagnostic: Low Evaporator Rfgt Temp Ckt 1: Unit Off	0 = Normal 1 = In Alarm
BI-11319	Diagnostic: Low Evaporator Rfgt Temp Ckt 2: Unit Off	0 = Normal 1 = In Alarm
BI-11320	Diagnostic: Low Evaporator Water Temp (Unit Off)	0 = Normal 1 = In Alarm
BI-11321	Diagnostic: Low Evaporator Water Temp (Unit On)	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11322	Diagnostic: Low Oil Flow 1A	0 = Normal 1 = In Alarm
BI-11323	Diagnostic: Low Oil Flow 1B	0 = Normal 1 = In Alarm
BI-11324	Diagnostic: Low Oil Flow 2A	0 = Normal 1 = In Alarm
BI-11325	Diagnostic: Low Oil Flow 2B	0 = Normal 1 = In Alarm
BI-11326	Diagnostic: Low Refrigerant Temperature Ckt2	0 = Normal 1 = In Alarm
BI-11327	Diagnostic: Low Refrigerant Temperature Ckt1	0 = Normal 1 = In Alarm
BI-11328	Diagnostic: Mfr Maintenance Recommended 1A	0 = Normal 1 = In Alarm
BI-11329	Diagnostic: Mfr Maintenance Recommended 1B	0 = Normal 1 = In Alarm
BI-11330	Diagnostic: Mfr Maintenance Recommended 2A	0 = Normal 1 = In Alarm
BI-11331	Diagnostic: Mfr Maintenance Recommended 2B	0 = Normal 1 = In Alarm
BI-11332	Diagnostic: Momentary Power Loss 1A	0 = Normal 1 = In Alarm
BI-11333	Diagnostic: Momentary Power Loss 1B	0 = Normal 1 = In Alarm
BI-11334	Diagnostic: Momentary Power Loss 2A	0 = Normal 1 = In Alarm
BI-11335	Diagnostic: Momentary Power Loss 2B	0 = Normal 1 = In Alarm
BI-11336	Diagnostic: Motor Current Overload 1A	0 = Normal 1 = In Alarm
BI-11337	Diagnostic: Motor Current Overload 1B	0 = Normal 1 = In Alarm
BI-11338	Diagnostic: Motor Current Overload 2A	0 = Normal 1 = In Alarm
BI-11339	Diagnostic: Motor Current Overload 2B	0 = Normal 1 = In Alarm
BI-11340	Diagnostic: Motor Winding Temp Sensor Cprsr1A	0 = Normal 1 = In Alarm
BI-11341	Diagnostic: Motor Winding Temp Sensor Cprsr2A	0 = Normal 1 = In Alarm
BI-11342	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm
BI-11343	Diagnostic: MP: Non-Volatile Block Test Error	0 = Normal 1 = In Alarm
BI-11344	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11345	Diagnostic: Need Cprsr 1A To Run For Oil Flow	0 = Normal 1 = In Alarm
BI-11346	Diagnostic: No Differential Rfgt Pressure 1A	0 = Normal 1 = In Alarm
BI-11347	Diagnostic: No Differential Rfgt Pressure 1B	0 = Normal 1 = In Alarm
BI-11348	Diagnostic: No Differential Rfgt Pressure 2A	0 = Normal 1 = In Alarm
BI-11349	Diagnostic: No Differential Rfgt Pressure 2B	0 = Normal 1 = In Alarm
BI-11350	Diagnostic: Oil Analysis Recommended Ckt1	0 = Normal 1 = In Alarm
BI-11351	Diagnostic: Oil Analysis Recommended Ckt2	0 = Normal 1 = In Alarm
BI-11352	Diagnostic: Oil Filter Change Recommended Cprsr1A	0 = Normal 1 = In Alarm
BI-11353	Diagnostic: Oil Filter Change Recommended Cprsr2A	0 = Normal 1 = In Alarm
BI-11354	Diagnostic: Oil Flow Protection Fault 1A	0 = Normal 1 = In Alarm
BI-11355	Diagnostic: Oil Flow Protection Fault 1B	0 = Normal 1 = In Alarm
BI-11356	Diagnostic: Oil Flow Protection Fault 2A	0 = Normal 1 = In Alarm
BI-11357	Diagnostic: Oil Flow Protection Fault 2B	0 = Normal 1 = In Alarm
BI-11358	Diagnostic: Oil Pressure Sensor 1A	0 = Normal 1 = In Alarm
BI-11359	Diagnostic: Oil Pressure Sensor 1B	0 = Normal 1 = In Alarm
BI-11360	Diagnostic: Oil Pressure Sensor 2A	0 = Normal 1 = In Alarm
BI-11361	Diagnostic: Oil Pressure Sensor 2B	0 = Normal 1 = In Alarm
BI-11362	Diagnostic: Oil Temperature Sensor, Circuit 1	0 = Normal 1 = In Alarm
BI-11363	Diagnostic: Oil Temperature Sensor, Circuit 2	0 = Normal 1 = In Alarm
BI-11364	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm
BI-11365	Diagnostic: Over Voltage	0 = Normal 1 = In Alarm
BI-11366	Diagnostic: Over Voltage 1A	0 = Normal 1 = In Alarm
BI-11367	Diagnostic: Over Voltage 2A	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11368	Diagnostic: Phase Loss 1A	0 = Normal 1 = In Alarm
BI-11369	Diagnostic: Phase Loss 1B	0 = Normal 1 = In Alarm
BI-11370	Diagnostic: Phase Loss 2A	0 = Normal 1 = In Alarm
BI-11371	Diagnostic: Phase Loss 2B	0 = Normal 1 = In Alarm
BI-11372	Diagnostic: Phase Reversal 1A	0 = Normal 1 = In Alarm
BI-11373	Diagnostic: Phase Reversal 1B	0 = Normal 1 = In Alarm
BI-11374	Diagnostic: Phase Reversal 2A	0 = Normal 1 = In Alarm
BI-11375	Diagnostic: Phase Reversal 2B	0 = Normal 1 = In Alarm
BI-11376	Diagnostic: Power Loss 1A	0 = Normal 1 = In Alarm
BI-11377	Diagnostic: Power Loss 1B	0 = Normal 1 = In Alarm
BI-11378	Diagnostic: Power Loss 2A	0 = Normal 1 = In Alarm
BI-11379	Diagnostic: Power Loss 2B	0 = Normal 1 = In Alarm
BI-11380	Diagnostic: Pumpdown Terminated Ckt1	0 = Normal 1 = In Alarm
BI-11381	Diagnostic: Pumpdown Terminated Ckt2	0 = Normal 1 = In Alarm
BI-11382	Diagnostic: Pumpdown Terminated By Time Ckt2	0 = Normal 1 = In Alarm
BI-11383	Diagnostic: Pumpdown Terminated By Time Ckt1	0 = Normal 1 = In Alarm
BI-11384	Diagnostic: Refrigerant Charge Loss Detected Ckt1	0 = Normal 1 = In Alarm
BI-11385	Diagnostic: Refrigerant Charge Loss Detected Ckt2	0 = Normal 1 = In Alarm
BI-11386	Diagnostic: Restart Inhibit Invoked 1A	0 = Normal 1 = In Alarm
BI-11387	Diagnostic: Restart Inhibit Invoked 1B	0 = Normal 1 = In Alarm
BI-11388	Diagnostic: Restart Inhibit Invoked 2A	0 = Normal 1 = In Alarm
BI-11389	Diagnostic: Restart Inhibit Invoked 2B	0 = Normal 1 = In Alarm
BI-11390	Diagnostic: Severe Current Imbalance 1A	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11391	Diagnostic: Severe Current Imbalance 1B	0 = Normal 1 = In Alarm
BI-11392	Diagnostic: Severe Current Imbalance 2A	0 = Normal 1 = In Alarm
BI-11393	Diagnostic: Severe Current Imbalance 2B	0 = Normal 1 = In Alarm
BI-11394	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm
BI-11395	Diagnostic: Software Error 1002: Call Trane Service	0 = Normal 1 = In Alarm
BI-11396	Diagnostic: Software Error 1003: Call Trane Service	0 = Normal 1 = In Alarm
BI-11397	Diagnostic: Starter Comm Loss: Main Processor 1A	0 = Normal 1 = In Alarm
BI-11398	Diagnostic: Starter Comm Loss: Main Processor 1B	0 = Normal 1 = In Alarm
BI-11399	Diagnostic: Starter Comm Loss: Main Processor 2A	0 = Normal 1 = In Alarm
BI-11400	Diagnostic: Starter Comm Loss: Main Processor 2B	0 = Normal 1 = In Alarm
BI-11401	Diagnostic: Starter Contactor Interrupt Failure 1A	0 = Normal 1 = In Alarm
BI-11402	Diagnostic: Starter Contactor Interrupt Failure 1B	0 = Normal 1 = In Alarm
BI-11403	Diagnostic: Starter Contactor Interrupt Failure 2A	0 = Normal 1 = In Alarm
BI-11404	Diagnostic: Starter Contactor Interrupt Failure 2B	0 = Normal 1 = In Alarm
BI-11405	Diagnostic: Starter Did Not Fully Accelerate 1B	0 = Normal 1 = In Alarm
BI-11406	Diagnostic: Starter Did Not Fully Accelerate 1A	0 = Normal 1 = In Alarm
BI-11407	Diagnostic: Starter Did Not Fully Accelerate 2B	0 = Normal 1 = In Alarm
BI-11408	Diagnostic: Starter Did Not Transition 1A	0 = Normal 1 = In Alarm
BI-11409	Diagnostic: Starter Did Not Transition 1B	0 = Normal 1 = In Alarm
BI-11410	Diagnostic: Starter Did Not Transition 2A	0 = Normal 1 = In Alarm
BI-11411	Diagnostic: Starter Did Not Transition 2B	0 = Normal 1 = In Alarm
BI-11412	Diagnostic: Starter Dry Run Test 1A	0 = Normal 1 = In Alarm
BI-11413	Diagnostic: Starter Dry Run Test 1B	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11414	Diagnostic: Starter Dry Run Test 2A	0 = Normal 1 = In Alarm
BI-11415	Diagnostic: Starter Dry Run Test 2B	0 = Normal 1 = In Alarm
BI-11416	Diagnostic: Starter Failed to Arm/Start 1A	0 = Normal 1 = In Alarm
BI-11417	Diagnostic: Starter Failed to Arm/Start 1B	0 = Normal 1 = In Alarm
BI-11418	Diagnostic: Starter Failed to Arm/Start 2A	0 = Normal 1 = In Alarm
BI-11419	Diagnostic: Starter Failed to Arm/Start 2B	0 = Normal 1 = In Alarm
BI-11420	Diagnostic: Starter Fault Type I 1A	0 = Normal 1 = In Alarm
BI-11421	Diagnostic: Starter Fault Type I 1B	0 = Normal 1 = In Alarm
BI-11422	Diagnostic: Starter Fault Type I 2A	0 = Normal 1 = In Alarm
BI-11423	Diagnostic: Starter Fault Type I 2B	0 = Normal 1 = In Alarm
BI-11424	Diagnostic: Starter Fault Type II 1A	0 = Normal 1 = In Alarm
BI-11425	Diagnostic: Starter Fault Type II 1B	0 = Normal 1 = In Alarm
BI-11426	Diagnostic: Starter Fault Type II 2A	0 = Normal 1 = In Alarm
BI-11427	Diagnostic: Starter Fault Type II 2B	0 = Normal 1 = In Alarm
BI-11428	Diagnostic: Starter Fault Type III 1A	0 = Normal 1 = In Alarm
BI-11429	Diagnostic: Starter Fault Type III 1B	0 = Normal 1 = In Alarm
BI-11430	Diagnostic: Starter Fault Type III 2A	0 = Normal 1 = In Alarm
BI-11431	Diagnostic: Starter Fault Type III 2B	0 = Normal 1 = In Alarm
BI-11432	Diagnostic: Starter Module Memory Error Type 1 1A	0 = Normal 1 = In Alarm
BI-11433	Diagnostic: Starter Module Memory Error Type 1 1B	0 = Normal 1 = In Alarm
BI-11434	Diagnostic: Starter Module Memory Error Type 1 2A	0 = Normal 1 = In Alarm
BI-11435	Diagnostic: Starter Module Memory Error Type 1 2B	0 = Normal 1 = In Alarm
BI-11436	Diagnostic: Starter Module Memory Error Type 2 1A	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11437	Diagnostic: Starter Module Memory Error Type 2 1B	0 = Normal 1 = In Alarm
BI-11438	Diagnostic: Starter Module Memory Error Type 2 2A	0 = Normal 1 = In Alarm
BI-11439	Diagnostic: Starter Module Memory Error Type 2 2B	0 = Normal 1 = In Alarm
BI-11440	Diagnostic: Starts/Hours Modified 1A	0 = Normal 1 = In Alarm
BI-11441	Diagnostic: Starts/Hours Modified 1B	0 = Normal 1 = In Alarm
BI-11442	Diagnostic: Starts/Hours Modified 2A	0 = Normal 1 = In Alarm
BI-11443	Diagnostic: Starts/Hours Modified 2B	0 = Normal 1 = In Alarm
BI-11444	Diagnostic: Suction Pressure Transducer Ckt2	0 = Normal 1 = In Alarm
BI-11445	Diagnostic: Suction Pressure Transducer Ckt1	0 = Normal 1 = In Alarm
BI-11446	Diagnostic: Suction Refrigerant Pressure Sensor 1A	0 = Normal 1 = In Alarm
BI-11447	Diagnostic: Suction Refrigerant Pressure Sensor 1B	0 = Normal 1 = In Alarm
BI-11448	Diagnostic: Suction Refrigerant Pressure Sensor 2A	0 = Normal 1 = In Alarm
BI-11449	Diagnostic: Suction Refrigerant Pressure Sensor 2B	0 = Normal 1 = In Alarm
BI-11450	Diagnostic: Suction Temperature Sensor	0 = Normal 1 = In Alarm
BI-11451	Diagnostic: Transition Complete Input Opened 1A	0 = Normal 1 = In Alarm
BI-11452	Diagnostic: Transition Complete Input Opened 1B	0 = Normal 1 = In Alarm
BI-11453	Diagnostic: Transition Complete Input Opened 2A	0 = Normal 1 = In Alarm
BI-11454	Diagnostic: Transition Complete Input Opened 2B	0 = Normal 1 = In Alarm
BI-11455	Diagnostic: Transition Complete Input Shorted 1A	0 = Normal 1 = In Alarm
BI-11456	Diagnostic: Transition Complete Input Shorted 1B	0 = Normal 1 = In Alarm
BI-11457	Diagnostic: Transition Complete Input Shorted 2A	0 = Normal 1 = In Alarm
BI-11458	Diagnostic: Transition Complete Input Shorted 2B	0 = Normal 1 = In Alarm
BI-11459	Diagnostic: Under Voltage	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Object States
BI-11460	Diagnostic: Under Voltage 1A	0 = Normal 1 = In Alarm
BI-11461	Diagnostic: Under Voltage 2A	0 = Normal 1 = In Alarm
BI-11462	Diagnostic: Unexpected Starter Shutdown 1A	0 = Normal 1 = In Alarm
BI-11463	Diagnostic: Unexpected Starter Shutdown 1B	0 = Normal 1 = In Alarm
BI-11464	Diagnostic: Unexpected Starter Shutdown 2A	0 = Normal 1 = In Alarm
BI-11465	Diagnostic: Unexpected Starter Shutdown 2B	0 = Normal 1 = In Alarm
BI-11466	Diagnostic: Very Low Discharge Superheat 1A	0 = Normal 1 = In Alarm
BI-11467	Diagnostic: Very Low Discharge Superheat 2A	0 = Normal 1 = In Alarm
BI-11468	Diagnostic: Very Low Evap Rfgt Pressure 1A	0 = Normal 1 = In Alarm
BI-11469	Diagnostic: Very Low Evap Rfgt Pressure 1B	0 = Normal 1 = In Alarm
BI-11470	Diagnostic: Very Low Evap Rfgt Pressure 2A	0 = Normal 1 = In Alarm
BI-11471	Diagnostic: Very Low Evap Rfgt Pressure 2B	0 = Normal 1 = In Alarm
BI-11472	Diagnostic: Water System Differential Pressure	0 = Normal 1 = In Alarm
BI-11473	Diagnostic: Energy Meter Write Value Failure	0 = Normal 1 = In Alarm
BI-11474	Diagnostic: Write Command Failure Energy Meter 1	0 = Normal 1 = In Alarm
BI-11475	Diagnostic: Write Command Failure Energy Meter 2	0 = Normal 1 = In Alarm
BI-11476	Diagnostic: High Evaporator Pressure	0 = Normal 1 = In Alarm
BI-11477	Comm Loss: Starter Panel High Temperature Limit	0 = Normal 1 = In Alarm

Object Identifier	Object Name	Description	Object States	Configuration Dependency
BV-10100	Chiller Auto Stop Command BAS	BAS command for Chiller Auto Stop. Allows chiller to run if conditions for running are met	0 = Stop 1 = Auto	Standard
BV-10101	Reset Diagnostic	BAS diagnostic reset command to clear resettable active diagnostics	0 = Normal 1 = Reset	Standard
BV-10102	Circuit 1 Lockout BAS	BAS to lock circuit 1	0 = Normal 1 = Locked Out	Standard
BV-10103	Circuit 2 Lockout BAS	BAS to lock circuit 2	0 = Normal 1 = Locked Out	Standard
BV-10104	Energy Consumption Reset	BAS command to reset Energy Consumption Resettable counter	0 = Accumulating 1 = Reset	Energy Meter
BV-10105	Noise Reduction Request BAS	BAS Noise Reduction Command	0 = Normal 1 = Reduce Noise	Noise Reduction
BV-10106	Compressor 1A Lockout BAS	BAS Compressor 1A Lockout	0 = Normal 1 = Locked Out	Compressor 1A
BV-10107	Compressor 1B Lockout BAS	BAS Compressor 1B Lockout	0 = Normal 1 = Locked Out	Compressor 1B
BV-10108	Compressor 2A Lockout BAS	BAS Compressor 2A Lockout	0 = Normal 1 = Locked Out	Compressor 2A
BV-10109	Compressor 2B Lockout BAS	BAS Compressor 2B Lockout	0 = Normal 1 = Locked Out	Compressor 2B
BV-10110	Evaporator Water Pump Request BAS	BAS Evaporator Water Pump Request	0 = Auto 1 = On	Hot Water Control
BV-10111	Condenser Water Pump Request BAS	BAS Condenser Water Pump Request	0 = Auto 1 = On	Hot Water Control

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-10103	Refrigerant Type	Indicates the chiller refrigerant type	5 = R-134a 13 = R-513A 16 = R-1234ze(E) 18 = R-515B	Standard
MI-10104	Manufacturing Location	Indicates the location that the chiller was manufactured	3 = Pueblo 4 = Charmes	Standard
MI-10105	Cooling Type	Indicates the cooling Type of chiller	1 = Water Cooled 2 = Air Cooled	Standard
MI-10106	Model Information [GEN2]	Indicates the model information of chiller	17 = RTWF 30 = RTSF 41 = RTWF XSE 45 = RTWD 46 = RTUD	Standard

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.

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

Modbus Register	Object Name	Description	Units	Configuration Dependency
30011	Active Cool/Heat Setpoint Temperature	Indicates the presently in use Chilled/Hot Water Setpoint	Temperature	Standard
30013	Active Demand Limit Setpoint	Indicates the presently in use or "active" setting of the Demand Limit. This does not include the effects of a startup demand limit softload target.	Percentage	Standard
30015	Evaporator Entering Water Temperature	This is present Evaporator Entering or Return water temperature	Temperature	Standard
30017	Evaporator Leaving Water Temperature	This is the temperature of the water leaving the evaporator, which is the primary control point for normal cooling mode of operation.	Temperature	Standard
30019	Outdoor Air Temperature	The temperature of the outdoor air temperature sensor	Temperature	Standard
30021	Number of Circuits	Number of Circuits	No Units	Standard
30025	Number of Compressors, Circuit 1	Number of Compressors, Circuit 1	No Units	Standard
30027	Number of Compressors, Circuit 2	Number of Compressors, Circuit 2	No Units	Standard
30029	Actual Running Capacity	Actual chiller running capacity (same as Total Compressor Current %RLA)	Percentage	Standard
30031	Evaporator Refrigerant Absolute Pressure Circuit 1	Evaporator Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
30033	Condenser Refrigerant Absolute Pressure Circuit 1	Condenser Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
30035	Differential Refrigerant Pressure Ckt1	Displays the differential pressure for the respective circuit as defined by (Condenser Pressure - Evaporator Pressure)	Pressure, Fluidic	Standard
30037	Evaporator Shell Refrigerant Pressure Ckt1	Evaporator Shell Refrigerant Pressure Ckt1	Pressure, Fluidic	Evaporator Isolation Valves
30039	Evaporator Saturated Rfgt Temp Ckt1	Displays the saturated temperature associated with the Evaporator Refrigerant Pressure of the respective circuit	Temperature	Standard
30041	Condenser Saturated Rfgt Temp Ckt1	Displays the saturated temperature associated with the Condenser Refrigerant Pressure of the respective circuit.	Temperature	Standard
30043	Discharge Temperature Cprsr1A	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Standard
30045	Oil Absolute Pressure Cprsr1A	Absolute oil pressure for the compressor 1A	Pressure, Fluidic	Compressor 1A
30047	Starts Cprsr1A	The total number of starts that the given compressor has experienced	No Units	Compressor 1A
30049	Running Time Cprsr1A	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 1A
30051	Evaporator Refrigerant Absolute Pressure Circuit 2	Evaporator Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
30053	Condenser Refrigerant Absolute Pressure Circuit 2	Condenser Absolute Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
30055	Differential Refrigerant Pressure Ckt2	Displays the differential pressure for the respective circuit as defined by (Condenser Pressure - Evaporator Pressure)	Pressure, Fluidic	Standard
30057	Evaporator Shell Refrigerant Pressure Ckt2	Evaporator Shell Refrigerant Pressure Ckt2	Pressure, Fluidic	Evaporator Isolation Valves
30059	Evaporator Saturated Rfgt Temp Ckt2	Displays the saturated temperature associated with the Evaporator Refrigerant Pressure of the respective circuit	Temperature	Standard

Modbus Register	Object Name	Description	Units	Configuration Dependency
30061	Condenser Saturated Rfgt Temp Ckt2	Displays the saturated temperature associated with the Condenser Refrigerant Pressure of the respective circuit	Temperature	Standard
30063	Compressor Suction Temperature	RTSF only: this is the compressor's suction temperature as read by a fast temperature sensor located in a well upstream of the compressor and computed to get a value which is used to estimate compressor suction superheat.	Temperature	RTSF
30065	Discharge Temperature Cprsr2A	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Compressor 2A
30067	Oil Absolute Pressure Cprsr2A	Absolute oil pressure for the compressor 2A	Pressure, Fluidic	Compressor 2A
30069	Discharge Temperature Cprsr1B	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Compressor 1B
30071	Oil Absolute Pressure Cprsr1B	Absolute oil pressure for the compressor 1B	Pressure, Fluidic	Compressor 1B
30073	Starts Cprsr1B	The total number of starts that the given compressor has experienced	No Units	Compressor 1B
30075	Running Time Cprsr1B	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 1B
30077	Starts Cprsr2A	The total number of starts that the given compressor has experienced	No Units	Compressor 2A
30079	Running Time Cprsr2A	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 2A
30081	Discharge Temperature Cprsr2B	This is the respective compressor's discharge temperature as read by a sensor located in a well just downstream of the compressor. It is used to estimate compressor discharge superheat and provides for minimum capacity and high discharge temperature protection functions.	Temperature	Compressor 2B
30083	Oil Absolute Pressure Cprsr2B	Absolute oil pressure for the compressor 2B	Pressure, Fluidic	Compressor 2B
30085	Starts Cprsr2B	The total number of starts that the given compressor has experienced	No Units	Compressor 2B
30087	Running Time Cprsr2B	The total accumulated running time (in seconds) that the given compressor has experienced	No Units	Compressor 2B
30089	Motor Voltage AB Starter 1A	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
30091	Motor Voltage AB Starter 1B	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
30093	Motor Voltage AB Starter 2A	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
30095	Motor Voltage AB Starter 2B	Motor voltage Vab for the respective compressor.	Voltage	Line Voltage Sensing
30097	Oil Temperature Circuit 1	The oil temperature for the respective compressor.	Temperature	Oil Cooler
30099	Oil Temperature Circuit 2	The oil temperature for the respective compressor.	Temperature	Oil Cooler
30101	Condenser Entering Water Temperature	This is present Condenser Entering or Return water temperature	Temperature	Standard
30103	Condenser Leaving Water Temperature	This is the temperature of the water leaving the Condenser, which is the primary control point for normal cooling or heating mode of operation.	Temperature	Standard

Modbus Register	Object Name	Description	Units	Configuration Dependency
30105	Unit Power Consumption	Estimate of the total Chiller Power being presently utilized; it includes both compressor and fan power, but not circuit off-cycle power	Power, Electrical	Energy Meter
30107	Energy Consumption NonReset	Cumulate energy consumption of unit.	Energy, Electrical	Energy Meter
30109	Energy Consumption Resettable	Cumulate energy consumption of unit with possibility to reset to zero from front panel of BAS command.	Energy, Electrical	Energy Meter
30111	Motor Current L1 Starter 1A	Motor current phase A in amps for the respective compressor.	Current	Starter 1A
30113	Motor Current L2 Starter 1A	Motor current phase B in amps for the respective compressor.	Current	Starter 1A
30115	Motor Current L3 Starter 1A	Motor current phase C in amps for the respective compressor.	Current	Starter 1A
30117	Motor Current L1 % RLA Starter 1A	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 1A
30119	Motor Current L2 % RLA Starter 1A	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 1A
30121	Motor Current L3 % RLA Starter 1A	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 1A
30123	Motor Current L1 Starter 2A	Motor current phase A in amps for the respective compressor.	Current	Starter 2A
30125	Motor Current L2 Starter 2A	Motor current phase B in amps for the respective compressor.	Current	Starter 2A
30127	Motor Current L3 Starter 2A	Motor current phase C in amps for the respective compressor.	Current	Starter 2A
30129	Motor Current L1 % RLA Starter 2A	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 2A
30131	Motor Current L2 % RLA Starter 2A	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 2A
30133	Motor Current L3 % RLA Starter 2A	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 2A
30135	Motor Current L1 Starter 1B	Motor current phase A in amps for the respective compressor.	Current	Starter 1B
30137	Motor Current L2 Starter 1B	Motor current phase B in amps for the respective compressor.	Current	Starter 1B
30139	Motor Current L3 Starter 1B	Motor current phase C in amps for the respective compressor.	Current	Starter 1B
30141	Motor Current L1 % RLA Starter 1B	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 1B
30143	Motor Current L2 % RLA Starter 1B	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 1B
30145	Motor Current L3 % RLA Starter 1B	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 1B
30147	Motor Current L1 Starter 2B	Motor current phase A in amps for the respective compressor.	Current	Starter 2B
30149	Motor Current L2 Starter 2B	Motor current phase B in amps for the respective compressor.	Current	Starter 2B
30151	Motor Current L3 Starter 2B	Motor current phase C in amps for the respective compressor.	Current	Starter 2B
30153	Motor Current L1 % RLA Starter 2B	Motor current phase A in % RLA for the respective compressor.	Percentage	Starter 2B
30155	Motor Current L2 % RLA Starter 2B	Motor current phase B in % RLA for the respective compressor.	Percentage	Starter 2B
30157	Motor Current L3 % RLA Starter 2B	Motor current phase C in % RLA for the respective compressor.	Percentage	Starter 2B
30159	Motor Current A Cprsr1A	Motor Current U AFD 1A	Current	GP4 w/Modbus AFD (TR200)
30161	Motor Current B Cprsr1A	Motor Current V AFD 1A	Current	GP4 w/Modbus AFD (TR200)
30163	Motor Current C Cprsr1A	Motor Current W AFD 1A	Current	GP4 w/Modbus AFD (TR200)
30165	Motor % RLA A Cprsr1A	Motor Current U % RLA AFD 1A	Percentage	GP4 w/Modbus AFD (TR200)

Modbus Register	Object Name	Description	Units	Configuration Dependency
30167	Motor % RLA B Cprsr1A	Motor Current V % RLA AFD 1A	Percentage	GP4 w/Modbus AFD (TR200)
30169	Motor % RLA C Cprsr1A	Motor Current W % RLA AFD 1A	Percentage	GP4 w/Modbus AFD (TR200)
30171	Motor Current A Cprsr2A	Motor Current U AFD 2A	Current	GP4 w/Modbus AFD (TR200)
30173	Motor Current B Cprsr2A	Motor Current V AFD 2A	Current	GP4 w/Modbus AFD (TR200)
30175	Motor Current C Cprsr2A	Motor Current W AFD 2A	Current	GP4 w/Modbus AFD (TR200)
30177	Motor % RLA A Cprsr2A	Motor Current U % RLA AFD 2A	Percentage	GP4 w/Modbus AFD (TR200)
30179	Motor % RLA B Cprsr2A	Motor Current V % RLA AFD 2A	Percentage	GP4 w/Modbus AFD (TR200)
30181	Motor % RLA C Cprsr2A	Motor Current W % RLA AFD 2A	Percentage	GP4 w/Modbus AFD (TR200)
30183	Average Motor Current % RLA AFD 1A	Motor average RLA for for the respective compressor.	Percentage	Modbus AFD (TR200)
30185	Average Motor Current % RLA AFD 2A	Motor average RLA for for the respective compressor.	Percentage	Modbus AFD (TR200)
30187	Unit Source ID (Last Diagnostic Code)	Last Logged Diagnostic Spec BAS	No Units	Standard
30189	Chiller Design Capacity	Chiller Design Capacity	Power, Cooling	Standard
30191	Active Chilled Water Setpoint	Indicates the presently in use Chilled Water Setpoint	Temperature	Standard
30193	Active Hot Water Setpoint	Indicates the presently in use Hot Water Setpoint	Temperature	Hot Water Control
30195	Unit Load Command	Unit Load Command	Percentage	Standard
30197	Air Flow Percentage Circuit 1	Air Flow Ckt1	Percentage	RTUD
30199	Air Flow Percentage Circuit 2	Air Flow Ckt2	Percentage	RTUD
30201	Evaporator Refrigerant Pressure Circuit 1	Evaporator Gauge Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
30203	Condenser Refrigerant Pressure Circuit 1	Condenser Gauge Refrigerant Pressure circuit 1	Pressure, Fluidic	Standard
30205	Evaporator Refrigerant Pressure Circuit 2	Evaporator Gauge Refrigerant Pressure circuit 2	Pressure, Fluidic	Standard
30207	Condenser Refrigerant Pressure Circuit 2	Condenser Gauge Refrigerant Pressure circuit 2	Pressure, Fluidic	Standard
30209	Condenser Control Output	Condenser Head Pressure Control Output	Percentage	Head Pressure Control
30211	Oil Pressure Cprsr1A	Gauge oil pressure for the compressor 1A	Pressure, Fluidic	Compressor 1A
30213	Oil Pressure Cprsr2A	Gauge oil pressure for the compressor 2A	Pressure, Fluidic	Compressor 2A
30215	Oil Pressure Cprsr1B	Gauge oil pressure for the compressor 1B	Pressure, Fluidic	Compressor 1B
30217	Oil Pressure Cprsr2B	Gauge oil pressure for the compressor 2B	Pressure, Fluidic	Compressor 2B
30219	Evaporator Approach Temperature Circuit 1	Evaporator Approach Temperature circuit 1	Temperature, Delta	Standard
30221	Evaporator Approach Temperature Circuit 2	Evaporator Approach Temperature circuit 2	Temperature, Delta	Standard
30223	Condenser Approach Temperature Circuit 1	Condenser Approach Temperature Circuit 1	Temperature, Delta	Standard
30225	Condenser Approach Temperature Circuit 2	Condenser Approach Temperature Circuit 2	Temperature, Delta	Standard
30227	Average Line Current Circuit 1	Average Line Current Meter 1	Current	Two Energy Meters
30229	Average Line Current Circuit 2	Average Line Current Meter 2	Current	Two Energy Meters

Modbus Register	Object Name	Description	Units	Configuration Dependency
30231	Average Line Voltage Circuit 1	Average Line Voltage Meter 1	Voltage	Two Energy Meters
30233	Average Line Voltage Circuit 2	Average Line Voltage Meter 2	Voltage	Two Energy Meters
30235	Line Current L1 Circuit 1	Line Current L1 Meter 1	Current	Two Energy Meters
30237	Line Current L2 Circuit 1	Line Current L2 Meter 1	Current	Two Energy Meters
30239	Line Current L3 Circuit 1	Line Current L3 Meter 1	Current	Two Energy Meters
30241	Line Current L1 Circuit 2	Line Current L1 Meter 2	Current	Two Energy Meters
30243	Line Current L2 Circuit 2	Line Current L3 Meter 2	Current	Two Energy Meters
30245	Line Current L3 Circuit 2	Line Current L3 Meter 2	Current	Two Energy Meters
30247	Voltage L1-L2 Circuit 1	Line Voltage L1-L2 Meter 1	Voltage	Two Energy Meters
30249	Voltage L2-L3 Circuit 1	Line Voltage L2-L3 Meter 1	Voltage	Two Energy Meters
30251	Voltage L1-L3 Circuit 1	Line Voltage L1-L3 Meter 1	Voltage	Two Energy Meters
30253	Voltage L1-L2 Circuit 2	Line Voltage L1-L2 Meter 2	Voltage	Two Energy Meters
30255	Voltage L2-L1 Circuit 2	Line Voltage L2-L3 Meter 2	Voltage	Two Energy Meters
30257	Voltage L1-L3 Circuit 2	Line Voltage L1-L3 Meter 2	Voltage	Two Energy Meters
30259	Line Frequency Circuit 1	Line Frequency Meter 1	None	Two Energy Meters
30261	Line Frequency Circuit 2	Line Frequency Meter 2	None	Two Energy Meters
30263	Power Factor Circuit 1	Power Factor Meter 1	None	Two Energy Meters
30265	Power Factor Circuit 2	Power Factor Meter 2	None	Two Energy Meters
30267	Power Demand Circuit 1	Power Demand Meter 1	Power, Electrical	Two Energy Meters
30269	Power Demand Circuit 2	Power Demand Meter 2	Power, Electrical	Two Energy Meters
30271	Power Factor	Unit Power Factor	None	One Energy Meter
30273	Current L1	Meter Line Current L1	Current	One Energy Meter
30275	Current L2	Meter Line Current L2	Current	One Energy Meter
30277	Current L3	Meter Line Current L3	Current	One Energy Meter
30279	Average Current	Meter Average Line Current	Current	One Energy Meter
30281	Voltage L1-L2	Meter Line Voltage L1-L2	Voltage	One Energy Meter
30283	Voltage L2-L3	Meter Line Voltage L2-L3	Voltage	One Energy Meter
30285	Voltage L1-L3	Meter Line Voltage L1-L3	Voltage	One Energy Meter
30287	Average Voltage L-L	Meter Average Line Voltage	Voltage	One Energy Meter
30289	Line Frequency	Unit Line Frequency	None	One Energy Meter
30291	Unit Power Demand	Chiller Power Demand	Power, Electrical	Power Monitor
30293	Active Cooling Differential to Start	Indicates the presently in use Cooling Differential to Start Setpoint	Temperature, Delta	Standard

Modbus Register	Object Name	Description	Units	Configuration Dependency
30295	Active Cooling Differential to Stop	Indicates the presently in use Cooling Differential to Stop Setpoint	Temperature, Delta	Standard
30297	Active Heating Differential to Start	Indicates the presently in use Heating Differential to Start Setpoint	Temperature, Delta	Hot Water Control
30299	Active Heating Differential to Stop	Indicates the presently in use Heating Differential to Stop Setpoint	Temperature, Delta	Hot Water Control

Modbus Register	Object Name	Description	Units	Configuration Dependency
40011	Chilled Water Setpoint	Desired evaporator leaving water temperature if chiller is in cooling mode.	Temperature	Standard
40013	Demand Limit Setpoint	Sets the maximum capacity that the chiller can use.	Percentage	Standard
40015	Hot Water Setpoint	Desired condenser leaving water temperature if chiller is in heating mode.	Temperature	Hot Water Control
40017	BAS Cooling Differential to Start	Desired Cooling Differential to Start if chiller is in cooling mode	Temperature, Delta	Standard
40019	BAS Cooling Differential to Stop	Desired Cooling Differential to Stop if chiller is in cooling mode	Temperature, Delta	Standard
40021	BAS Heating Differential to Start	Desired Heating Differential to Start if chiller is in heating mode	Temperature, Delta	Hot Water Control
40023	BAS Heating Differential to Stop	Desired Heating Differential to Stop if chiller is in heating mode	Temperature, Delta	Hot Water Control

Modbus Register	Object Name	Description	Object States	Configuration Dependency
33011	Run Enable	Indicates if the chiller is available to run or is currently running.	0 = Run Not Enabled 1 = Run Enabled	Standard
33012	Local Setpoint Control	Indicates if the chiller is being controlled by local setpoints instead of BAS setpoints.	0 = Remote Control 1 = Local Control	Standard
33013	Limit Mode Relay Status	Inidicates if the Chiller is in a Limit mode.	0 = Off 1 = On	Standard
33014	Chiller Running State	Indicates primary running mode of the chiller sequence	0 = Off 1 = On	Standard
33015	Maximum Capacity	Indicates if al available chiller capacity is being used, follows same rules as external relay.	0 = Off 1 = On	Standard
33016	Manual Override Exists	Indicates if there is a Manual Override active.	0 = Off 1 = On	Standard
33017	Emergency Stop	Displays the Status of the Emergency Stop	0 = Auto 1 = Emergency Stop - Manual Reset Required	Standard
33018	Evaporator Water Flow Status	Indication of water flow through the evaporator.	0 = No Flow 1 = Flow	Standard
33019	Diagnostic Present	Diagnostic Present	0 = Normal 1 = In Alarm	Standard
33020	Diagnostic Shutdown Present	Diagnostic Shutdown Present	0 = Normal 1 = In Alarm	Standard
33021	Diagnostic: Manual Reset Required	Diagnostic: Manual Reset Required	0 = Normal 1 = In Alarm	Standard
33022	Diagnostic: Local Manual Reset Required	Diagnostic: Local Manual Reset Required	0 = Normal 1 = In Alarm	Standard
33023	Diagnostic Present: Information	/eVar/Pltm1DiagPrsntInfo/	0 = Normal 1 = In Alarm	Standard
33024	Diagnostic Present: Advisory	/eVar/Pltm1DiagPrsntAdvsry/	0 = Normal 1 = In Alarm	Standard
33025	Diagnostic Present: Critical	/eVar/Pltm1DiagPrsntCrtcl/	0 = Normal 1 = In Alarm	Standard
33026	Diagnostic Present: Service Required	/eVar/Pltm1DiagPrsntSvcRqrd/	0 = Normal 1 = In Alarm	Standard
33027	Compressor 1A Running Status	Indicates running status of compressor 1A	0 = Stop 1 = Auto	Standard
33028	Compressor 1B Running Status	Indicates running status of compressor 1B	0 = Stop 1 = Auto	Compressor 1B
33029	Compressor 2A Running Status	Indicates running status of compressor 2A	0 = Stop 1 = Auto	Compressor 2A
33030	Compressor 2B Running Status	Indicates running status of compressor 2B	0 = Stop 1 = Auto	Compressor 2B
33031	External Auto Stop	Status of External Auto Stop input.	0 = Stop 1 = Auto	Standard

Modbus Register	Object Name	Description	Object States	Configuration Dependency
33032	Condenser Water Pump Command	This provides a status of the Chillers Condenser Water Pump output.	0 = Inactive 1 = Active	Standard
33033	Evaporator Water Pump Command	This provides a status of the Chillers Evaporator Water Pump output.	0 = Off 1 = On	Standard
33034	Condenser Water Flow Status	Indication of water flow through the condenser	0 = Inactive 1 = Active	Standard
33035	Front Panel Auto Stop Status	Status of Front Auto Stop input.	0 = Stop 1 = Auto	Standard
33036	Circuit Manual Reset Indicator (CMR) Ckt1	Indicates whether or not there is an alarm present that is keeping the circuit 1 from running.	0 = Inactive 1 = Active	Standard
33037	Circuit Manual Reset Indicator (CMR) Ckt2	Indicates whether or not there is an alarm present that is keeping the circuit 2 from running.	0 = Inactive 1 = Active	Circuit 2
33038	Circuit Auto Reset Indicator (CAR) Ckt1	Indicates whether or not there is non-latching alarm present on circuit 1	0 = Inactive 1 = Active	Standard
33039	Circuit Auto Reset Indicator (CAR) Ckt2	Indicates whether or not there is non-latching alarm present on circuit 2	0 = Inactive 1 = Active	Circuit 2
33040	Head Pressure Relief Request	Head Relief Request Relay	0 = Normal 1 = Locked Out	Standard
33041	Alarm - General Latching Unit	Latching alarm is present so that it disable the total capacity of the unit	0 = Normal 1 = In Alarm	Standard
33042	Alarm - General Non Latching Unit	At least one Non-Latching alarm is present so that it disable the total capacity of the unit	0 = Normal 1 = In Alarm	Standard
33043	Alarm - General Latching Ckt1	Latching alarm is present so that it disable the total capacity of the circuit 1	0 = Normal 1 = In Alarm	Standard
33044	Alarm - General Latching Ckt2	Latching alarm is present so that it disable the total capacity of the circuit 2	0 = Normal 1 = In Alarm	Circuit 2
33045	Alarm - General Non Latching Ckt1	At least one Non-Latching alarm is present so that it disable the total capacity of the circuit 1	0 = Normal 1 = In Alarm	Standard
33046	Alarm - General Non Latching Ckt2	At least one Non-Latching alarm is present so that it disable the total capacity of the circuit 2	0 = Normal 1 = In Alarm	Circuit 2
33047	Noise Reduction Request Active	Status of Noise Reduction Request	0 = Off 1 = On	Noise Reduction

Modbus Register	Object Name	Object States
34001	Comm Loss: %RLA Indication Output (Vdc)	0 = Normal 1 = In Alarm
34002	Comm Loss: AFD 1A	0 = Normal 1 = In Alarm
34003	Comm Loss: AFD 2A	0 = Normal 1 = In Alarm
34004	Comm Loss: AFD Fault Input 1A	0 = Normal 1 = In Alarm
34005	Comm Loss: AFD Fault Input 1B	0 = Normal 1 = In Alarm
34006	Comm Loss: AFD Fault Input 2A	0 = Normal 1 = In Alarm
34007	Comm Loss: AFD Fault Input 2B	0 = Normal 1 = In Alarm
34008	Comm Loss: AFD Run Command 1A	0 = Normal 1 = In Alarm
34009	Comm Loss: AFD Run Command 2A	0 = Normal 1 = In Alarm
34010	Comm Loss: AFD Speed Command 1A	0 = Normal 1 = In Alarm
34011	Comm Loss: AFD Speed Command 1B	0 = Normal 1 = In Alarm
34012	Comm Loss: AFD Speed Command 2A	0 = Normal 1 = In Alarm
34013	Comm Loss: AFD Speed Command 2B	0 = Normal 1 = In Alarm
34014	Comm Loss: AOC Inlet Oil Temperature 1A	0 = Normal 1 = In Alarm
34015	Comm Loss: AOC Inlet Oil Temperature 2A	0 = Normal 1 = In Alarm
34016	Comm Loss: Auxiliary Setpoint Command	0 = Normal 1 = In Alarm
34017	Comm Loss: Chiller Bypass Valve Output	0 = Normal 1 = In Alarm
34018	Comm Loss: Cond Head Press Cntrl Output	0 = Normal 1 = In Alarm
34019	Comm Loss: Cond Rfgt Liquid Level Ckt1	0 = Normal 1 = In Alarm
34020	Comm Loss: Cond Rfgt Liquid Level Ckt2	0 = Normal 1 = In Alarm
34021	Comm Loss: Cond Water Pump Analog Output	0 = Normal 1 = In Alarm
34022	Comm Loss: Condenser Entering Water Temp	0 = Normal 1 = In Alarm
34023	Comm Loss: Condenser Leaving Water Temp	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34024	Comm Loss: Condenser Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
34025	Comm Loss: Condenser Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm
34026	Comm Loss: Condenser Rfgt Pressure Output	0 = Normal 1 = In Alarm
34027	Comm Loss: Condenser Water Flow Switch	0 = Normal 1 = In Alarm
34028	Comm Loss: Condenser Water Pump Relay	0 = Normal 1 = In Alarm
34029	Comm Loss: Cprsr Disch Rfgt Temp 1A	0 = Normal 1 = In Alarm
34030	Comm Loss: Cprsr Disch Rfgt Temp 1B	0 = Normal 1 = In Alarm
34031	Comm Loss: Cprsr Disch Rfgt Temp 2A	0 = Normal 1 = In Alarm
34032	Comm Loss: Cprsr Disch Rfgt Temp 2B	0 = Normal 1 = In Alarm
34033	Comm Loss: Electronic Expansion Valve Ckt1	0 = Normal 1 = In Alarm
34034	Comm Loss: Electronic Expansion Valve Ckt2	0 = Normal 1 = In Alarm
34035	Comm Loss: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
34036	Comm Loss: Energy Meter Pulse Input	0 = Normal 1 = In Alarm
34037	Comm Loss: Evap Entering Water Pressure	0 = Normal 1 = In Alarm
34038	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm
34039	Comm Loss: Evap Iso Valve Close Switch Ckt1	0 = Normal 1 = In Alarm
34040	Comm Loss: Evap Iso Valve Close Switch Ckt2	0 = Normal 1 = In Alarm
34041	Comm Loss: Evap Iso Valve Open Switch Ckt1	0 = Normal 1 = In Alarm
34042	Comm Loss: Evap Iso Valve Open Switch Ckt2	0 = Normal 1 = In Alarm
34043	Comm Loss: Evap Isolation Valve Relay Ckt1	0 = Normal 1 = In Alarm
34044	Comm Loss: Evap Isolation Valve Relay Ckt2	0 = Normal 1 = In Alarm
34045	Comm Loss: Evap Leaving Water Pressure	0 = Normal 1 = In Alarm
34046	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34047	Comm Loss: Evap Oil Return Level Ckt1	0 = Normal 1 = In Alarm
34048	Comm Loss: Evap Oil Return Level Ckt2	0 = Normal 1 = In Alarm
34049	Comm Loss: Evap Pump Inv1 Fault Input	0 = Normal 1 = In Alarm
34050	Comm Loss: Evap Pump Inv1 Run Command	0 = Normal 1 = In Alarm
34051	Comm Loss: Evap Rfgt Liquid Level Ckt1	0 = Normal 1 = In Alarm
34052	Comm Loss: Evap Rfgt Liquid Level Ckt2	0 = Normal 1 = In Alarm
34053	Comm Loss: Evap Rfgt Pool Temp Ckt1	0 = Normal 1 = In Alarm
34054	Comm Loss: Evap Rfgt Pool Temp Ckt2	0 = Normal 1 = In Alarm
34055	Comm Loss: Evap Shell Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm
34056	Comm Loss: Evap Shell Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
34057	Comm Loss: Evap Water Pump Analog Output	0 = Normal 1 = In Alarm
34058	Comm Loss: Evap Water Pump Inv Freq Input	0 = Normal 1 = In Alarm
34059	Comm Loss: Evaporator Pump 1 Fault Input	0 = Normal 1 = In Alarm
34060	Comm Loss: Evaporator Pump 2 Fault Input	0 = Normal 1 = In Alarm
34061	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm
34062	Comm Loss: Evaporator Water Pump 1 Relay	0 = Normal 1 = In Alarm
34063	Comm Loss: Evaporator Water Pump 2 Relay	0 = Normal 1 = In Alarm
34064	Comm Loss: Ext Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
34065	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm
34066	Comm Loss: Ext Noise Reduction Request	0 = Normal 1 = In Alarm
34067	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm
34068	Comm Loss: External Ckt2 Lockout	0 = Normal 1 = In Alarm
34069	Comm Loss: External Ckt1 Lockout	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34070	Comm Loss: External Hot Water Command	0 = Normal 1 = In Alarm
34071	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm
34072	Comm Loss: Fan Control Relays, Ckt1	0 = Normal 1 = In Alarm
34073	Comm Loss: Fan Control Relays, Ckt2	0 = Normal 1 = In Alarm
34074	Comm Loss: Fan Inverter Fault Ckt1	0 = Normal 1 = In Alarm
34075	Comm Loss: Fan Inverter Fault Ckt2	0 = Normal 1 = In Alarm
34076	Comm Loss: Fan Inverter Speed Command Ckt1	0 = Normal 1 = In Alarm
34077	Comm Loss: Fan Inverter Speed Command Ckt2	0 = Normal 1 = In Alarm
34078	Comm Loss: High Pressure Cutout Sw 1A	0 = Normal 1 = In Alarm
34079	Comm Loss: High Pressure Cutout Sw 1B	0 = Normal 1 = In Alarm
34080	Comm Loss: High Pressure Cutout Sw 2A	0 = Normal 1 = In Alarm
34081	Comm Loss: High Pressure Cutout Sw 2B	0 = Normal 1 = In Alarm
34082	Comm Loss: High Pressure Cutout Switch Ckt2	0 = Normal 1 = In Alarm
34083	Comm Loss: High Pressure Cutout Switch Ckt1	0 = Normal 1 = In Alarm
34084	Comm Loss: HR Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34085	Comm Loss: HR Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34086	Comm Loss: Ice Building Status Relay	0 = Normal 1 = In Alarm
34087	Comm Loss: Liquid Line Pressure Ckt1	0 = Normal 1 = In Alarm
34088	Comm Loss: Liquid Line Pressure Ckt2	0 = Normal 1 = In Alarm
34089	Comm Loss: Liquid Line Temperature Ckt1	0 = Normal 1 = In Alarm
34090	Comm Loss: Liquid Line Temperature Ckt2	0 = Normal 1 = In Alarm
34091	Comm Loss: Motor RLA Input 1A	0 = Normal 1 = In Alarm
34092	Comm Loss: Motor RLA Input 1B	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34093	Comm Loss: Motor RLA Input 2A	0 = Normal 1 = In Alarm
34094	Comm Loss: Motor RLA Input 2B	0 = Normal 1 = In Alarm
34095	Comm Loss: Motor Winding Tstat Cprsr1A	0 = Normal 1 = In Alarm
34096	Comm Loss: Motor Winding Tstat Cprsr2A	0 = Normal 1 = In Alarm
34097	Comm Loss: Noise Reduction Request Relay Ckt1	0 = Normal 1 = In Alarm
34098	Comm Loss: Noise Reduction Request Relay Ckt2	0 = Normal 1 = In Alarm
34099	Comm Loss: Off-cycle Freeze Prot Relay	0 = Normal 1 = In Alarm
34100	Comm Loss: Oil Heater Relay 1A	0 = Normal 1 = In Alarm
34101	Comm Loss: Oil Heater Relay 2A	0 = Normal 1 = In Alarm
34102	Comm Loss: Oil Loss Level Sensor Input Ckt1	0 = Normal 1 = In Alarm
34103	Comm Loss: Oil Loss Level Sensor Input Ckt2	0 = Normal 1 = In Alarm
34104	Comm Loss: Oil Pressure 1A	0 = Normal 1 = In Alarm
34105	Comm Loss: Oil Pressure 1B	0 = Normal 1 = In Alarm
34106	Comm Loss: Oil Pressure 2A	0 = Normal 1 = In Alarm
34107	Comm Loss: Oil Pressure 2B	0 = Normal 1 = In Alarm
34108	Comm Loss: Oil Return Gas Pump Drain Ckt1	0 = Normal 1 = In Alarm
34109	Comm Loss: Oil Return Gas Pump Drain Ckt2	0 = Normal 1 = In Alarm
34110	Comm Loss: Oil Return Gas Pump Fill Ckt1	0 = Normal 1 = In Alarm
34111	Comm Loss: Oil Return Gas Pump Fill Ckt2	0 = Normal 1 = In Alarm
34112	Comm Loss: Oil Return Purge Valve Ckt1	0 = Normal 1 = In Alarm
34113	Comm Loss: Oil Return Purge Valve Ckt2	0 = Normal 1 = In Alarm
34114	Comm Loss: Oil Temp, Ckt 1	0 = Normal 1 = In Alarm
34115	Comm Loss: Oil Temp, Ckt 2	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34116	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm
34117	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm
34118	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm
34119	Comm Loss: Reversing Valve	0 = Normal 1 = In Alarm
34120	Comm Loss: Slide Valve Load 1A	0 = Normal 1 = In Alarm
34121	Comm Loss: Slide Valve Load 1B	0 = Normal 1 = In Alarm
34122	Comm Loss: Slide Valve Load 2A	0 = Normal 1 = In Alarm
34123	Comm Loss: Slide Valve Load 2B	0 = Normal 1 = In Alarm
34124	Comm Loss: Slide Valve Unload 1A	0 = Normal 1 = In Alarm
34125	Comm Loss: Slide Valve Unload 1B	0 = Normal 1 = In Alarm
34126	Comm Loss: Slide Valve Unload 2A	0 = Normal 1 = In Alarm
34127	Comm Loss: Slide Valve Unload 2B	0 = Normal 1 = In Alarm
34128	Comm Loss: Starter 1A	0 = Normal 1 = In Alarm
34129	Comm Loss: Starter 1B	0 = Normal 1 = In Alarm
34130	Comm Loss: Starter 2A	0 = Normal 1 = In Alarm
34131	Comm Loss: Starter 2B	0 = Normal 1 = In Alarm
34132	Comm Loss: Step Load 1A	0 = Normal 1 = In Alarm
34133	Comm Loss: Step Load 1B	0 = Normal 1 = In Alarm
34134	Comm Loss: Step Load 2A	0 = Normal 1 = In Alarm
34135	Comm Loss: Step Load 2B	0 = Normal 1 = In Alarm
34136	Comm Loss: Suction Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
34137	Comm Loss: Suction Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm
34138	Comm Loss: Suction Rfgt Pressure 1A	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34139	Comm Loss: Suction Rfgt Pressure 1B	0 = Normal 1 = In Alarm
34140	Comm Loss: Suction Rfgt Pressure 2A	0 = Normal 1 = In Alarm
34141	Comm Loss: Suction Rfgt Pressure 2B	0 = Normal 1 = In Alarm
34142	Comm Loss: Suction Temperature	0 = Normal 1 = In Alarm
34143	Comm Loss: Water System Diff Pressure	0 = Normal 1 = In Alarm
34144	Comm Loss: Winding Temp 1, Cprsr1A	0 = Normal 1 = In Alarm
34145	Comm Loss: Winding Temp 1, Cprsr2A	0 = Normal 1 = In Alarm
34146	Comm Loss: Winding Temp 2, Cprsr1A	0 = Normal 1 = In Alarm
34147	Diagnostic: AFD %RLA Feedback 1A	0 = Normal 1 = In Alarm
34148	Diagnostic: AFD %RLA Feedback 1B	0 = Normal 1 = In Alarm
34149	Diagnostic: AFD %RLA Feedback 2A	0 = Normal 1 = In Alarm
34150	Diagnostic: AFD %RLA Feedback 2B	0 = Normal 1 = In Alarm
34151	Diagnostic: AFD Bump Complete 1A	0 = Normal 1 = In Alarm
34152	Diagnostic: AFD Bump Complete 2A	0 = Normal 1 = In Alarm
34153	Diagnostic: AFD Bump Current High 1A	0 = Normal 1 = In Alarm
34154	Diagnostic: AFD Bump Current High 2A	0 = Normal 1 = In Alarm
34155	Diagnostic: AFD Comm Loss – 1A	0 = Normal 1 = In Alarm
34156	Diagnostic: AFD Comm Loss – 1B	0 = Normal 1 = In Alarm
34157	Diagnostic: AFD Comm Loss – 2A	0 = Normal 1 = In Alarm
34158	Diagnostic: AFD Comm Loss – 2B	0 = Normal 1 = In Alarm
34159	Diagnostic: AFD Failure to Arm or Start 1A	0 = Normal 1 = In Alarm
34160	Diagnostic: AFD Failure to Arm or Start 1B	0 = Normal 1 = In Alarm
34161	Diagnostic: AFD Failure to Arm or Start 2A	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34162	Diagnostic: AFD Failure to Arm or Start 2B	0 = Normal 1 = In Alarm
34163	Diagnostic: AFD Fault 1A	0 = Normal 1 = In Alarm
34164	Diagnostic: AFD Fault 1B	0 = Normal 1 = In Alarm
34165	Diagnostic: AFD Fault 2A	0 = Normal 1 = In Alarm
34166	Diagnostic: AFD Fault 2B	0 = Normal 1 = In Alarm
34167	Diagnostic: AFD Fault Mains 1A	0 = Normal 1 = In Alarm
34168	Diagnostic: AFD Fault Mains 2A	0 = Normal 1 = In Alarm
34169	Diagnostic: AFD Harmonic Filter Over Temperature 1A	0 = Normal 1 = In Alarm
34170	Diagnostic: AFD Harmonic Filter Over Temperature 2A	0 = Normal 1 = In Alarm
34171	Diagnostic: AFD High Pressure Cutout 1A	0 = Normal 1 = In Alarm
34172	Diagnostic: AFD High Pressure Cutout 2A	0 = Normal 1 = In Alarm
34173	Diagnostic: AFD Interrupt Failure 1A	0 = Normal 1 = In Alarm
34174	Diagnostic: AFD Interrupt Failure 2A	0 = Normal 1 = In Alarm
34175	Diagnostic: AFD Motor Current Overload 1A	0 = Normal 1 = In Alarm
34176	Diagnostic: AFD Motor Current Overload 1B	0 = Normal 1 = In Alarm
34177	Diagnostic: AFD Motor Current Overload 2A	0 = Normal 1 = In Alarm
34178	Diagnostic: AFD Motor Current Overload 2B	0 = Normal 1 = In Alarm
34179	Diagnostic: AFD Motor Fault 1A	0 = Normal 1 = In Alarm
34180	Diagnostic: AFD Motor Fault 2A	0 = Normal 1 = In Alarm
34181	Diagnostic: AFD Motor Speed Too High 1A	0 = Normal 1 = In Alarm
34182	Diagnostic: AFD Motor Speed Too High 2A	0 = Normal 1 = In Alarm
34183	Diagnostic: AFD Motor Speed Too Low 1A	0 = Normal 1 = In Alarm
34184	Diagnostic: AFD Motor Speed Too Low 2A	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34185	Diagnostic: AFD Pump Out Speed Low 1A	0 = Normal 1 = In Alarm
34186	Diagnostic: AFD Pump Out Speed Low 2A	0 = Normal 1 = In Alarm
34187	Diagnostic: AFD Unexpected Shutdown 1A	0 = Normal 1 = In Alarm
34188	Diagnostic: AFD Unexpected Shutdown 2A	0 = Normal 1 = In Alarm
34189	Diagnostic: AFD Unhandled Fault 1A	0 = Normal 1 = In Alarm
34190	Diagnostic: AFD Unhandled Fault 2A	0 = Normal 1 = In Alarm
34191	Diagnostic: AOC Inlet Oil Temperature Sensor 1A	0 = Normal 1 = In Alarm
34192	Diagnostic: AOC Inlet Oil Temperature Sensor 2A	0 = Normal 1 = In Alarm
34193	Diagnostic: Check Clock	0 = Normal 1 = In Alarm
34194	Diagnostic: Chiller Service Recommended	0 = Normal 1 = In Alarm
34195	Diagnostic: Comm Loss: Winding Temp 2, Cprsr2A	0 = Normal 1 = In Alarm
34196	Diagnostic: Cond Rfgt Liquid Level Sensor Ckt1	0 = Normal 1 = In Alarm
34197	Diagnostic: Cond Rfgt Liquid Level Sensor Ckt2	0 = Normal 1 = In Alarm
34198	Diagnostic: Condenser Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34199	Diagnostic: Condenser Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34200	Diagnostic: Condenser Rfgt Pressure Sensor Ckt2	0 = Normal 1 = In Alarm
34201	Diagnostic: Condenser Rfgt Pressure Sensor Ckt1	0 = Normal 1 = In Alarm
34202	Diagnostic: Condenser Water Flow Lost	0 = Normal 1 = In Alarm
34203	Diagnostic: Condenser Water Flow Overdue	0 = Normal 1 = In Alarm
34204	Diagnostic: Cprsr Did Not Accel: Shutdown 1A	0 = Normal 1 = In Alarm
34205	Diagnostic: Cprsr Did Not Accel: Shutdown 1B	0 = Normal 1 = In Alarm
34206	Diagnostic: Cprsr Did Not Accel: Shutdown 2A	0 = Normal 1 = In Alarm
34207	Diagnostic: Cprsr Did Not Accel: Shutdown 2B	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34208	Diagnostic: Cprsr Did Not Accel: Transition 1A	0 = Normal 1 = In Alarm
34209	Diagnostic: Cprsr Did Not Accel: Transition 1B	0 = Normal 1 = In Alarm
34210	Diagnostic: Cprsr Did Not Accel: Transition 2A	0 = Normal 1 = In Alarm
34211	Diagnostic: Cprsr Did Not Accel: Transition 2B	0 = Normal 1 = In Alarm
34212	Diagnostic: Cprsr Disch Rfgt Temp Sensor 1A	0 = Normal 1 = In Alarm
34213	Diagnostic: Cprsr Disch Rfgt Temp Sensor 1B	0 = Normal 1 = In Alarm
34214	Diagnostic: Cprsr Disch Rfgt Temp Sensor 2A	0 = Normal 1 = In Alarm
34215	Diagnostic: Cprsr Disch Rfgt Temp Sensor 2B	0 = Normal 1 = In Alarm
34216	Diagnostic: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
34217	Diagnostic: Evap Iso Valve Illegal Switch State Ckt1	0 = Normal 1 = In Alarm
34218	Diagnostic: Evap Iso Valve Illegal Switch State Ckt2	0 = Normal 1 = In Alarm
34219	Diagnostic: Evap Isolation Valve Closed Switch Failure Ckt1	0 = Normal 1 = In Alarm
34220	Diagnostic: Evap Isolation Valve Closed Switch Failure Ckt2	0 = Normal 1 = In Alarm
34221	Diagnostic: Evap Isolation Valve Failed To Close Ckt1	0 = Normal 1 = In Alarm
34222	Diagnostic: Evap Isolation Valve Failed To Close Ckt2	0 = Normal 1 = In Alarm
34223	Diagnostic: Evap Isolation Valve Failed To Open Ckt1	0 = Normal 1 = In Alarm
34224	Diagnostic: Evap Isolation Valve Failed To Open Ckt2	0 = Normal 1 = In Alarm
34225	Diagnostic: Evap Isolation Valve Open Switch Failure Ckt1	0 = Normal 1 = In Alarm
34226	Diagnostic: Evap Isolation Valve Open Switch Failure Ckt2	0 = Normal 1 = In Alarm
34227	Diagnostic: Evap Pump 1 Starts Run time Written	0 = Normal 1 = In Alarm
34228	Diagnostic: Evap Pump 2 Starts Run time Written	0 = Normal 1 = In Alarm
34229	Diagnostic: Evap Rfgt Pool Temp Sensor Ckt1	0 = Normal 1 = In Alarm
34230	Diagnostic: Evap Rfgt Pool Temp Sensor Ckt2	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34231	Diagnostic: Evap Rfgt Pool Temp Sensor Error Ckt1	0 = Normal 1 = In Alarm
34232	Diagnostic: Evap Rfgt Pool Temp Sensor Error Ckt2	0 = Normal 1 = In Alarm
34233	Diagnostic: Evap Spillover Liquid Level Sensor Ckt1	0 = Normal 1 = In Alarm
34234	Diagnostic: Evap Spillover Liquid Level Sensor Ckt2	0 = Normal 1 = In Alarm
34235	Diagnostic: Evap Water Pump 1 Svc Recommended	0 = Normal 1 = In Alarm
34236	Diagnostic: Evap Water Pump 2 Svc Recommended	0 = Normal 1 = In Alarm
34237	Diagnostic: Evaporator Approach Error Ckt2	0 = Normal 1 = In Alarm
34238	Diagnostic: Evaporator Approach Error Ckt1	0 = Normal 1 = In Alarm
34239	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
34240	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34241	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
34242	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34243	Diagnostic: Evaporator Oil Return Level Sensor, Ckt1	0 = Normal 1 = In Alarm
34244	Diagnostic: Evaporator Oil Return Level Sensor, Ckt2	0 = Normal 1 = In Alarm
34245	Diagnostic: Evaporator Pump 1 Fault	0 = Normal 1 = In Alarm
34246	Diagnostic: Evaporator Pump 2 Fault	0 = Normal 1 = In Alarm
34247	Diagnostic: Evaporator Shell Rfgt Pressure Sensor Ckt1	0 = Normal 1 = In Alarm
34248	Diagnostic: Evaporator Shell Rfgt Pressure Sensor Ckt2	0 = Normal 1 = In Alarm
34249	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm
34250	Diagnostic: Evaporator Water Flow Lost Pump1	0 = Normal 1 = In Alarm
34251	Diagnostic: Evaporator Water Flow Lost Pump2	0 = Normal 1 = In Alarm
34252	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm
34253	Diagnostic: Evaporator Water Flow Overdue Pump1	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34254	Diagnostic: Evaporator Water Flow Overdue Pump2	0 = Normal 1 = In Alarm
34255	Diagnostic: Excessive Condenser Pressure Ckt2	0 = Normal 1 = In Alarm
34256	Diagnostic: Excessive Condenser Pressure Ckt1	0 = Normal 1 = In Alarm
34257	Diagnostic: External Chilled/Hot Water Setpoint	0 = Normal 1 = In Alarm
34258	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm
34259	Diagnostic: EXV Pressure Equalization Failed Ckt1	0 = Normal 1 = In Alarm
34260	Diagnostic: EXV Pressure Equalization Failed Ckt2	0 = Normal 1 = In Alarm
34261	Diagnostic: Fan Inverter Fault Ckt1	0 = Normal 1 = In Alarm
34262	Diagnostic: Fan Inverter Fault Ckt2	0 = Normal 1 = In Alarm
34263	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm
34264	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
34265	Diagnostic: GP4Vvi High Cprsr Rfgt Discharge Temp 1A	0 = Normal 1 = In Alarm
34266	Diagnostic: High Cprsr Rfgt Discharge Temp 1A	0 = Normal 1 = In Alarm
34267	Diagnostic: High Cprsr Rfgt Discharge Temp 1B	0 = Normal 1 = In Alarm
34268	Diagnostic: GP4Vvi High Cprsr Rfgt Discharge Temp 2A	0 = Normal 1 = In Alarm
34269	Diagnostic: High Cprsr Rfgt Discharge Temp 2A	0 = Normal 1 = In Alarm
34270	Diagnostic: High Cprsr Rfgt Discharge Temp 2B	0 = Normal 1 = In Alarm
34271	Diagnostic: High Differential Refrigerant Pressure	0 = Normal 1 = In Alarm
34272	Diagnostic: High Differential Rfgt Pressure 1A	0 = Normal 1 = In Alarm
34273	Diagnostic: High Differential Rfgt Pressure 1B	0 = Normal 1 = In Alarm
34274	Diagnostic: High Differential Rfgt Pressure 2A	0 = Normal 1 = In Alarm
34275	Diagnostic: High Differential Rfgt Pressure 2B	0 = Normal 1 = In Alarm
34276	Diagnostic: High Evap Shell Rfgt Pressure Ckt1	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34277	Diagnostic: High Evap Shell Rfgt Pressure Ckt2	0 = Normal 1 = In Alarm
34278	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm
34279	Diagnostic: High Motor Winding Temperature 1A	0 = Normal 1 = In Alarm
34280	Diagnostic: High Motor Winding Temperature 2A	0 = Normal 1 = In Alarm
34281	Diagnostic: High Motor Winding Temperature Cprsr1A	0 = Normal 1 = In Alarm
34282	Diagnostic: High Motor Winding Temperature Cprsr2A	0 = Normal 1 = In Alarm
34283	Diagnostic: High Oil Temperature Ckt1	0 = Normal 1 = In Alarm
34284	Diagnostic: High Oil Temperature Ckt2	0 = Normal 1 = In Alarm
34285	Diagnostic: High Pressure Cutout Ckt2	0 = Normal 1 = In Alarm
34286	Diagnostic: High Pressure Cutout Ckt1	0 = Normal 1 = In Alarm
34287	Diagnostic: High Pressure Cutout 1A	0 = Normal 1 = In Alarm
34288	Diagnostic: High Pressure Cutout 1B	0 = Normal 1 = In Alarm
34289	Diagnostic: High Pressure Cutout 2A	0 = Normal 1 = In Alarm
34290	Diagnostic: High Pressure Cutout 2B	0 = Normal 1 = In Alarm
34291	Diagnostic: High Refrigerant Pressure Ratio	0 = Normal 1 = In Alarm
34292	Diagnostic: High Refrigerant Pressure Ratio 1A	0 = Normal 1 = In Alarm
34293	Diagnostic: High Refrigerant Pressure Ratio 1B	0 = Normal 1 = In Alarm
34294	Diagnostic: High Refrigerant Pressure Ratio 2A	0 = Normal 1 = In Alarm
34295	Diagnostic: High Refrigerant Pressure Ratio 2B	0 = Normal 1 = In Alarm
34296	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm
34297	Diagnostic: Liquid Line Pressure Sensor Ckt1	0 = Normal 1 = In Alarm
34298	Diagnostic: Liquid Line Pressure Sensor Ckt2	0 = Normal 1 = In Alarm
34299	Diagnostic: Liquid Line Temp Sensor Ckt1	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34300	Diagnostic: Liquid Line Temp Sensor Ckt2	0 = Normal 1 = In Alarm
34301	Diagnostic: Loss of Oil for Compressor (Running) Ckt1	0 = Normal 1 = In Alarm
34302	Diagnostic: Loss of Oil for Compressor (Running) Ckt2	0 = Normal 1 = In Alarm
34303	Diagnostic: Loss of Oil for Compressor (Stopped) Ckt1	0 = Normal 1 = In Alarm
34304	Diagnostic: Loss of Oil for Compressor (Stopped) Ckt2	0 = Normal 1 = In Alarm
34305	Diagnostic: Low Condenser Rfgt Temp Ckt 1: Unit Off	0 = Normal 1 = In Alarm
34306	Diagnostic: Low Condenser Rfgt Temp Ckt 2: Unit Off	0 = Normal 1 = In Alarm
34307	Diagnostic: Low Differential Rfgt Pressure 1A	0 = Normal 1 = In Alarm
34308	Diagnostic: Low Differential Rfgt Pressure 1B	0 = Normal 1 = In Alarm
34309	Diagnostic: Low Differential Rfgt Pressure 2A	0 = Normal 1 = In Alarm
34310	Diagnostic: Low Differential Rfgt Pressure 2B	0 = Normal 1 = In Alarm
34311	Diagnostic: Low Discharge Superheat 1A	0 = Normal 1 = In Alarm
34312	Diagnostic: Low Discharge Superheat 1B	0 = Normal 1 = In Alarm
34313	Diagnostic: Low Discharge Superheat 2A	0 = Normal 1 = In Alarm
34314	Diagnostic: Low Discharge Superheat 2B	0 = Normal 1 = In Alarm
34315	Diagnostic: Low Evaporator Oil Return Level Ckt1	0 = Normal 1 = In Alarm
34316	Diagnostic: Low Evaporator Oil Return Level Ckt2	0 = Normal 1 = In Alarm
34317	Diagnostic: Low Evaporator Refrigerant Pressure Ckt1	0 = Normal 1 = In Alarm
34318	Diagnostic: Low Evaporator Refrigerant Pressure Ckt2	0 = Normal 1 = In Alarm
34319	Diagnostic: Low Evaporator Rfgt Temp Ckt 1: Unit Off	0 = Normal 1 = In Alarm
34320	Diagnostic: Low Evaporator Rfgt Temp Ckt 2: Unit Off	0 = Normal 1 = In Alarm
34321	Diagnostic: Low Evaporator Water Temp (Unit Off)	0 = Normal 1 = In Alarm
34322	Diagnostic: Low Evaporator Water Temp (Unit On)	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34323	Diagnostic: Low Oil Flow 1A	0 = Normal 1 = In Alarm
34324	Diagnostic: Low Oil Flow 1B	0 = Normal 1 = In Alarm
34325	Diagnostic: Low Oil Flow 2A	0 = Normal 1 = In Alarm
34326	Diagnostic: Low Oil Flow 2B	0 = Normal 1 = In Alarm
34327	Diagnostic: Low Refrigerant Temperature Ckt2	0 = Normal 1 = In Alarm
34328	Diagnostic: Low Refrigerant Temperature Ckt1	0 = Normal 1 = In Alarm
34329	Diagnostic: Mfr Maintenance Recommended 1A	0 = Normal 1 = In Alarm
34330	Diagnostic: Mfr Maintenance Recommended 1B	0 = Normal 1 = In Alarm
34331	Diagnostic: Mfr Maintenance Recommended 2A	0 = Normal 1 = In Alarm
34332	Diagnostic: Mfr Maintenance Recommended 2B	0 = Normal 1 = In Alarm
34333	Diagnostic: Momentary Power Loss 1A	0 = Normal 1 = In Alarm
34334	Diagnostic: Momentary Power Loss 1B	0 = Normal 1 = In Alarm
34335	Diagnostic: Momentary Power Loss 2A	0 = Normal 1 = In Alarm
34336	Diagnostic: Momentary Power Loss 2B	0 = Normal 1 = In Alarm
34337	Diagnostic: Motor Current Overload 1A	0 = Normal 1 = In Alarm
34338	Diagnostic: Motor Current Overload 1B	0 = Normal 1 = In Alarm
34339	Diagnostic: Motor Current Overload 2A	0 = Normal 1 = In Alarm
34340	Diagnostic: Motor Current Overload 2B	0 = Normal 1 = In Alarm
34341	Diagnostic: Motor Winding Temp Sensor Cprsr1A	0 = Normal 1 = In Alarm
34342	Diagnostic: Motor Winding Temp Sensor Cprsr2A	0 = Normal 1 = In Alarm
34343	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm
34344	Diagnostic: MP: Non-Volatile Block Test Error	0 = Normal 1 = In Alarm
34345	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34346	Diagnostic: Need Cprsr 1A To Run For Oil Flow	0 = Normal 1 = In Alarm
34347	Diagnostic: No Differential Rfgt Pressure 1A	0 = Normal 1 = In Alarm
34348	Diagnostic: No Differential Rfgt Pressure 1B	0 = Normal 1 = In Alarm
34349	Diagnostic: No Differential Rfgt Pressure 2A	0 = Normal 1 = In Alarm
34350	Diagnostic: No Differential Rfgt Pressure 2B	0 = Normal 1 = In Alarm
34351	Diagnostic: Oil Analysis Recommended Ckt1	0 = Normal 1 = In Alarm
34352	Diagnostic: Oil Analysis Recommended Ckt2	0 = Normal 1 = In Alarm
34353	Diagnostic: Oil Filter Change Recommended Cprsr1A	0 = Normal 1 = In Alarm
34354	Diagnostic: Oil Filter Change Recommended Cprsr2A	0 = Normal 1 = In Alarm
34355	Diagnostic: Oil Flow Protection Fault 1A	0 = Normal 1 = In Alarm
34356	Diagnostic: Oil Flow Protection Fault 1B	0 = Normal 1 = In Alarm
34357	Diagnostic: Oil Flow Protection Fault 2A	0 = Normal 1 = In Alarm
34358	Diagnostic: Oil Flow Protection Fault 2B	0 = Normal 1 = In Alarm
34359	Diagnostic: Oil Pressure Sensor 1A	0 = Normal 1 = In Alarm
34360	Diagnostic: Oil Pressure Sensor 1B	0 = Normal 1 = In Alarm
34361	Diagnostic: Oil Pressure Sensor 2A	0 = Normal 1 = In Alarm
34362	Diagnostic: Oil Pressure Sensor 2B	0 = Normal 1 = In Alarm
34363	Diagnostic: Oil Temperature Sensor, Circuit 1	0 = Normal 1 = In Alarm
34364	Diagnostic: Oil Temperature Sensor, Circuit 2	0 = Normal 1 = In Alarm
34365	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm
34366	Diagnostic: Over Voltage	0 = Normal 1 = In Alarm
34367	Diagnostic: Over Voltage 1A	0 = Normal 1 = In Alarm
34368	Diagnostic: Over Voltage 2A	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34369	Diagnostic: Phase Loss 1A	0 = Normal 1 = In Alarm
34370	Diagnostic: Phase Loss 1B	0 = Normal 1 = In Alarm
34371	Diagnostic: Phase Loss 2A	0 = Normal 1 = In Alarm
34372	Diagnostic: Phase Loss 2B	0 = Normal 1 = In Alarm
34373	Diagnostic: Phase Reversal 1A	0 = Normal 1 = In Alarm
34374	Diagnostic: Phase Reversal 1B	0 = Normal 1 = In Alarm
34375	Diagnostic: Phase Reversal 2A	0 = Normal 1 = In Alarm
34376	Diagnostic: Phase Reversal 2B	0 = Normal 1 = In Alarm
34377	Diagnostic: Power Loss 1A	0 = Normal 1 = In Alarm
34378	Diagnostic: Power Loss 1B	0 = Normal 1 = In Alarm
34379	Diagnostic: Power Loss 2A	0 = Normal 1 = In Alarm
34380	Diagnostic: Power Loss 2B	0 = Normal 1 = In Alarm
34381	Diagnostic: Pumpdown Terminated Ckt1	0 = Normal 1 = In Alarm
34382	Diagnostic: Pumpdown Terminated Ckt2	0 = Normal 1 = In Alarm
34383	Diagnostic: Pumpdown Terminated By Time Ckt2	0 = Normal 1 = In Alarm
34384	Diagnostic: Pumpdown Terminated By Time Ckt1	0 = Normal 1 = In Alarm
34385	Diagnostic: Refrigerant Charge Loss Detected Ckt1	0 = Normal 1 = In Alarm
34386	Diagnostic: Refrigerant Charge Loss Detected Ckt2	0 = Normal 1 = In Alarm
34387	Diagnostic: Restart Inhibit Invoked 1A	0 = Normal 1 = In Alarm
34388	Diagnostic: Restart Inhibit Invoked 1B	0 = Normal 1 = In Alarm
34389	Diagnostic: Restart Inhibit Invoked 2A	0 = Normal 1 = In Alarm
34390	Diagnostic: Restart Inhibit Invoked 2B	0 = Normal 1 = In Alarm
34391	Diagnostic: Severe Current Imbalance 1A	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34392	Diagnostic: Severe Current Imbalance 1B	0 = Normal 1 = In Alarm
34393	Diagnostic: Severe Current Imbalance 2A	0 = Normal 1 = In Alarm
34394	Diagnostic: Severe Current Imbalance 2B	0 = Normal 1 = In Alarm
34395	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm
34396	Diagnostic: Software Error 1002: Call Trane Service	0 = Normal 1 = In Alarm
34397	Diagnostic: Software Error 1003: Call Trane Service	0 = Normal 1 = In Alarm
34398	Diagnostic: Starter Comm Loss: Main Processor 1A	0 = Normal 1 = In Alarm
34399	Diagnostic: Starter Comm Loss: Main Processor 1B	0 = Normal 1 = In Alarm
34400	Diagnostic: Starter Comm Loss: Main Processor 2A	0 = Normal 1 = In Alarm
34401	Diagnostic: Starter Comm Loss: Main Processor 2B	0 = Normal 1 = In Alarm
34402	Diagnostic: Starter Contactor Interrupt Failure 1A	0 = Normal 1 = In Alarm
34403	Diagnostic: Starter Contactor Interrupt Failure 1B	0 = Normal 1 = In Alarm
34404	Diagnostic: Starter Contactor Interrupt Failure 2A	0 = Normal 1 = In Alarm
34405	Diagnostic: Starter Contactor Interrupt Failure 2B	0 = Normal 1 = In Alarm
34406	Diagnostic: Starter Did Not Fully Accelerate 1B	0 = Normal 1 = In Alarm
34407	Diagnostic: Starter Did Not Fully Accelerate 1A	0 = Normal 1 = In Alarm
34408	Diagnostic: Starter Did Not Fully Accelerate 2B	0 = Normal 1 = In Alarm
34409	Diagnostic: Starter Did Not Transition 1A	0 = Normal 1 = In Alarm
34410	Diagnostic: Starter Did Not Transition 1B	0 = Normal 1 = In Alarm
34411	Diagnostic: Starter Did Not Transition 2A	0 = Normal 1 = In Alarm
34412	Diagnostic: Starter Did Not Transition 2B	0 = Normal 1 = In Alarm
34413	Diagnostic: Starter Dry Run Test 1A	0 = Normal 1 = In Alarm
34414	Diagnostic: Starter Dry Run Test 1B	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34415	Diagnostic: Starter Dry Run Test 2A	0 = Normal 1 = In Alarm
34416	Diagnostic: Starter Dry Run Test 2B	0 = Normal 1 = In Alarm
34417	Diagnostic: Starter Failed to Arm/Start 1A	0 = Normal 1 = In Alarm
34418	Diagnostic: Starter Failed to Arm/Start 1B	0 = Normal 1 = In Alarm
34419	Diagnostic: Starter Failed to Arm/Start 2A	0 = Normal 1 = In Alarm
34420	Diagnostic: Starter Failed to Arm/Start 2B	0 = Normal 1 = In Alarm
34421	Diagnostic: Starter Fault Type I 1A	0 = Normal 1 = In Alarm
34422	Diagnostic: Starter Fault Type I 1B	0 = Normal 1 = In Alarm
34423	Diagnostic: Starter Fault Type I 2A	0 = Normal 1 = In Alarm
34424	Diagnostic: Starter Fault Type I 2B	0 = Normal 1 = In Alarm
34425	Diagnostic: Starter Fault Type II 1A	0 = Normal 1 = In Alarm
34426	Diagnostic: Starter Fault Type II 1B	0 = Normal 1 = In Alarm
34427	Diagnostic: Starter Fault Type II 2A	0 = Normal 1 = In Alarm
34428	Diagnostic: Starter Fault Type II 2B	0 = Normal 1 = In Alarm
34429	Diagnostic: Starter Fault Type III 1A	0 = Normal 1 = In Alarm
34430	Diagnostic: Starter Fault Type III 1B	0 = Normal 1 = In Alarm
34431	Diagnostic: Starter Fault Type III 2A	0 = Normal 1 = In Alarm
34432	Diagnostic: Starter Fault Type III 2B	0 = Normal 1 = In Alarm
34433	Diagnostic: Starter Module Memory Error Type 1 1A	0 = Normal 1 = In Alarm
34434	Diagnostic: Starter Module Memory Error Type 1 1B	0 = Normal 1 = In Alarm
34435	Diagnostic: Starter Module Memory Error Type 1 2A	0 = Normal 1 = In Alarm
34436	Diagnostic: Starter Module Memory Error Type 1 2B	0 = Normal 1 = In Alarm
34437	Diagnostic: Starter Module Memory Error Type 2 1A	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34438	Diagnostic: Starter Module Memory Error Type 2 1B	0 = Normal 1 = In Alarm
34439	Diagnostic: Starter Module Memory Error Type 2 2A	0 = Normal 1 = In Alarm
34440	Diagnostic: Starter Module Memory Error Type 2 2B	0 = Normal 1 = In Alarm
34441	Diagnostic: Starts/Hours Modified 1A	0 = Normal 1 = In Alarm
34442	Diagnostic: Starts/Hours Modified 1B	0 = Normal 1 = In Alarm
34443	Diagnostic: Starts/Hours Modified 2A	0 = Normal 1 = In Alarm
34444	Diagnostic: Starts/Hours Modified 2B	0 = Normal 1 = In Alarm
34445	Diagnostic: Suction Pressure Transducer Ckt2	0 = Normal 1 = In Alarm
34446	Diagnostic: Suction Pressure Transducer Ckt1	0 = Normal 1 = In Alarm
34447	Diagnostic: Suction Refrigerant Pressure Sensor 1A	0 = Normal 1 = In Alarm
34448	Diagnostic: Suction Refrigerant Pressure Sensor 1B	0 = Normal 1 = In Alarm
34449	Diagnostic: Suction Refrigerant Pressure Sensor 2A	0 = Normal 1 = In Alarm
34450	Diagnostic: Suction Refrigerant Pressure Sensor 2B	0 = Normal 1 = In Alarm
34451	Diagnostic: Suction Temperature Sensor	0 = Normal 1 = In Alarm
34452	Diagnostic: Transition Complete Input Opened 1A	0 = Normal 1 = In Alarm
34453	Diagnostic: Transition Complete Input Opened 1B	0 = Normal 1 = In Alarm
34454	Diagnostic: Transition Complete Input Opened 2A	0 = Normal 1 = In Alarm
34455	Diagnostic: Transition Complete Input Opened 2B	0 = Normal 1 = In Alarm
34456	Diagnostic: Transition Complete Input Shorted 1A	0 = Normal 1 = In Alarm
34457	Diagnostic: Transition Complete Input Shorted 1B	0 = Normal 1 = In Alarm
34458	Diagnostic: Transition Complete Input Shorted 2A	0 = Normal 1 = In Alarm
34459	Diagnostic: Transition Complete Input Shorted 2B	0 = Normal 1 = In Alarm
34460	Diagnostic: Under Voltage	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Object States
34461	Diagnostic: Under Voltage 1A	0 = Normal 1 = In Alarm
34462	Diagnostic: Under Voltage 2A	0 = Normal 1 = In Alarm
34463	Diagnostic: Unexpected Starter Shutdown 1A	0 = Normal 1 = In Alarm
34464	Diagnostic: Unexpected Starter Shutdown 1B	0 = Normal 1 = In Alarm
34465	Diagnostic: Unexpected Starter Shutdown 2A	0 = Normal 1 = In Alarm
34466	Diagnostic: Unexpected Starter Shutdown 2B	0 = Normal 1 = In Alarm
34467	Diagnostic: Very Low Discharge Superheat 1A	0 = Normal 1 = In Alarm
34468	Diagnostic: Very Low Discharge Superheat 2A	0 = Normal 1 = In Alarm
34469	Diagnostic: Very Low Evap Rfgt Pressure 1A	0 = Normal 1 = In Alarm
34470	Diagnostic: Very Low Evap Rfgt Pressure 1B	0 = Normal 1 = In Alarm
34471	Diagnostic: Very Low Evap Rfgt Pressure 2A	0 = Normal 1 = In Alarm
34472	Diagnostic: Very Low Evap Rfgt Pressure 2B	0 = Normal 1 = In Alarm
34473	Diagnostic: Water System Differential Pressure	0 = Normal 1 = In Alarm
34474	Diagnostic: Energy Meter Write Value Failure	0 = Normal 1 = In Alarm
34475	Diagnostic: Write Command Failure Energy Meter 1	0 = Normal 1 = In Alarm
34476	Diagnostic: Write Command Failure Energy Meter 2	0 = Normal 1 = In Alarm
34477	Diagnostic: High Evaporator Pressure	0 = Normal 1 = In Alarm
34478	Comm Loss: Starter Panel High Temperature Limit	0 = Normal 1 = In Alarm

Modbus Register	Object Name	Description	Object States	Configuration Dependency
33011	Chiller Auto Stop Command BAS	BAS command for Chiller Auto Stop. Allows chiller to run if conditions for running are met.	0 = Stop 1 = Auto	Standard
33012	Reset Diagnostic	BAS diagnostic reset command to clear resettable active diagnostics.	0 = Normal 1 = Reset	Standard
33013	Circuit 1 Lockout BAS	BAS to lock circuit 1.	0 = Normal 1 = Locked Out	Standard
33014	Circuit 2 Lockout BAS	BAS to lock circuit 2.	0 = Normal 1 = Locked Out	Standard
33015	Energy Consumption Reset	BAS command to reset Energy Consumption Resettable counter.	0 = Accumulating 1 = Reset	Energy Meter
33016	Noise Reduction Request BAS	BAS Noise Reduction Command	0 = Normal 1 = Reduce Noise	Noise Reduction
33017	Compressor 1A Lockout BAS	BAS Compressor 1A Lockout	0 = Normal 1 = Locked Out	Compressor 1A
33018	Compressor 1B Lockout BAS	BAS Compressor 1B Lockout	0 = Normal 1 = Locked Out	Compressor 1B
33019	Compressor 2A Lockout BAS	BAS Compressor 2A Lockout	0 = Normal 1 = Locked Out	Compressor 2A
33020	Compressor 2B Lockout BAS	BAS Compressor 2B Lockout	0 = Normal 1 = Locked Out	Compressor 2B
33021	Evaporator Water Pump Request BAS	BAS Evaporator Water Pump Request	0 = Auto 1 = On	Hot Water Control
33022	Condenser Water Pump Request BAS	BAS Condenser Water Pump Request	0 = Auto 1 = On	Hot Water Control

Modbus Register	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
32014	Refrigerant Type	Indicates the chiller refrigerant type	5 = R-134a 13 = R-513A 16 = R-1234ze(E) 18 = R-515B	Standard
32015	Manufacturing Location	Indicates the location that the chiller was manufactured	3 = Pueblo 4 = Charmes	Standard
32016	Cooling Type	Indicates the cooling Type of chiller	1 = Water Cooled 2 = Air Cooled	Standard
32017	Model Information [GEN2]	Indicates the model information of chiller	17 = RTWF 30 = RTSF 41 = RTWF XSE 45 = RTWD 46 = RTUD	Standard

Modbus Register	Object Name	Description	Object States	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

Diagnostics Codes

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
1001	3E9	MP: Invalid Configuration
1003	3EB	Check Clock
1005	3ED	MP: Non-Volatile Block Test Error
1006	3EE	MP: Reset Has Occurred
21001	5209	Comm Loss: Outdoor Air Temperature
21002	520A	Outdoor Air Temperature Sensor
21003	520B	Software Error 1001: Call Trane Service
21004	520C	Software Error 1002: Call Trane Service
21005	520D	Software Error 1003: Call Trane Service
41001	A029	Comm Loss: Condenser Rfgt Pressure - Circuit 1
41002	A02A	Comm Loss: Suction Rfgt Pressure - Circuit 1
41003	A02B	Comm Loss: Liquid Line Temperature - Circuit 1
41004	A02C	Pumpdown Terminated By Time - Circuit 1
41005	A02D	Condenser Rfgt Pressure Sensor - Circuit 1
41006	A02E	Suction Pressure Transducer - Circuit 1
41007	A02F	Comm Loss: Liquid Line Pressure - Circuit 1
41008	A030	Comm Loss: Evap Shell Rfgt Pressure - Circuit 1
41009	A031	Evaporator Shell Rfgt Pressure Sensor - Circuit 1
41010	A032	Comm Loss: Cond Rfgt Liquid Level - Circuit 1
41011	A033	Cond Rfgt Liquid Level Sensor - Circuit 1
41012	A034	Comm Loss: Oil Loss Level Sensor Input - Circuit 1
41013	A035	Comm Loss: External Ckt Lockout - Circuit 1
41015	A037	Liquid Line Pressure Sensor - Circuit 1
41016	A038	Liquid Line Temp Sensor - Circuit 1
41018	A03A	Evap Rfgt Pool Temp Sensor - Circuit 1
41019	A03B	Comm Loss: Evap Rfgt Pool Temp - Circuit 1
41020	A03C	Evap Isolation Valve Failed to Open - Circuit 1
41021	A03D	Evap Isolation Valve Failed to Close - Circuit 1
41022	A03E	Evap Isolation Valve Open Switch Failure - Circuit 1
41023	A03F	Evap Isolation Valve Closed Switch Failure - Circuit 1
41024	A040	Evap Iso Valve Illegal Switch State - Circuit 1
41025	A041	Comm Loss: Evap Isolation Valve Relay - Circuit 1
41026	A042	Comm Loss: Evap Iso Valve Close Switch - Circuit 1

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
41027	A043	Comm Loss: Evap Iso Valve Open Switch - Circuit 1
41028	A044	Evap Rfgt Pool Temp Sensor Error - Circuit 1
41030	A046	Oil Temperature Sensor - Circuit 1
41031	A047	Comm Loss: Oil Temp - Circuit 1
41032	A048	Comm Loss: Evap Oil Return Level - Circuit 1
41033	A049	Evaporator Oil Return Level Sensor - Circuit 1
41034	A04A	Comm Loss: Oil Return Purge Valve - Circuit 1
41035	A04B	AOC Inlet Oil Temperature Sensor - 1A
41036	A04C	Comm Loss: AOC Inlet Oil Temperature - 1A
41037	A04D	Evap Spillover Liquid Level Sensor - Circuit 1
41038	A04E	Comm Loss: Evap Rfgt Liquid Level - Circuit 1
41039	A04F	Pumpdown Terminated - Circuit 1
41055	A05F	Comm Loss: Reversing Valve
42001	A411	Comm Loss: Condenser Rfgt Pressure - Circuit 2
42002	A412	Comm Loss: Suction Rfgt Pressure - Circuit 2
42003	A413	Comm Loss: Liquid Line Temperature - Circuit 2
42004	A414	Pumpdown Terminated By Time - Circuit 2
42005	A415	Condenser Rfgt Pressure Sensor - Circuit 2
42006	A416	Suction Pressure Transducer - Circuit 2
42007	A417	Comm Loss: Liquid Line Pressure - Circuit 2
42008	A418	Comm Loss: Evap Shell Rfgt Pressure - Circuit 2
42009	A419	Evaporator Shell Rfgt Pressure Sensor - Circuit 2
42010	A41A	Comm Loss: Cond Rfgt Liquid Level - Circuit 2
42011	A41B	Cond Rfgt Liquid Level Sensor - Circuit 2
42012	A41C	Comm Loss: Oil Loss Level Sensor Input - Circuit 2
42013	A41D	Comm Loss: External Ckt Lockout - Circuit 2
42015	A41F	Liquid Line Pressure Sensor - Circuit 2
42016	A420	Liquid Line Temp Sensor - Circuit 2
42018	A422	Evap Rfgt Pool Temp Sensor - Circuit 2
42019	A423	Comm Loss: Evap Rfgt Pool Temp - Circuit 2
42020	A424	Evap Isolation Valve Failed to Open - Circuit 2
42021	A425	Evap Isolation Valve Failed to Close - Circuit 2
42022	A426	Evap Isolation Valve Open Switch Failure - Circuit 2

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
42023	A427	Evap Isolation Valve Closed Switch Failure - Circuit 2
42024	A428	Evap Iso Valve Illegal Switch State - Circuit 2
42025	A429	Comm Loss: Evap Isolation Valve Relay - Circuit 2
42026	A42A	Comm Loss: Evap Iso Valve Close Switch - Circuit 2
42027	A42B	Comm Loss: Evap Iso Valve Open Switch - Circuit 2
42028	A42C	Evap Rfgt Pool Temp Sensor Error - Circuit 2
42030	A42E	Oil Temperature Sensor - Circuit 2
42031	A42F	Comm Loss: Oil Temp - Circuit 2
42032	A430	Comm Loss: Evap Oil Return Level - Circuit 2
42033	A431	Evaporator Oil Return Level Sensor - Circuit 2
42034	A432	Comm Loss: Oil Return Purge Valve - Circuit 2
42035	A433	AOC Inlet Oil Temperature Sensor - 2A
42036	A434	Comm Loss: AOC Inlet Oil Temperature - 2A
42037	A435	Evap Spillover Liquid Level Sensor - Circuit 2
42038	A436	Comm Loss: Evap Rfgt Liquid Level - Circuit 2
42039	A437	Pumpdown Terminated - Circuit 2
61002	EE4A	Comm Loss: Evaporator Water Flow Switch
61003	EE4B	Comm Loss: Off-cycle Freeze Prot Relay
71001	11559	Comm Loss: Condenser Water Pump Relay
71002	1155A	Comm Loss: Condenser Water Flow Switch
71003	1155B	Comm Loss: Condenser Entering Water Temp
71004	1155C	Comm Loss: Condenser Leaving Water Temp
71005	1155D	Condenser Entering Water Temp Sensor
71006	1155E	Condenser 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: External Hot Water Command

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
81011	13C73	Comm Loss: Cond Head Press Cntrl Output
81012	13C74	Comm Loss: %RLA Indication Output(Vdc)
81013	13C75	Comm Loss: Condenser Rfgt Pressure Output
81014	13C76	Comm Loss: Ext Noise Reduction Request
81015	13C77	Comm Loss: Auxiliary Setpoint Command
81016	13C78	Comm Loss: Programmable Relay Board 2
101001	18A89	Low Refrigerant Temperature - Circuit 1
101002	18A8A	Low Evaporator Refrigerant Pressure - Circuit 1
101005	18A8D	Low Evaporator Rfgt Temp - Circuit 1: Unit Off
101006	18A8E	Evaporator Approach Error - Circuit 1
101007	18A8F	High Evap Shell Rfgt Pressure - Circuit 1
101008	18A90	Loss of Oil for Compressor (Stopped) - Circuit 1
101009	18A91	Loss of Oil for Compressor (Running) - Circuit 1
101010	18A92	High Oil Temperature - Circuit 1
101011	18A93	Low Condenser Rfgt Temp - Circuit 1: Unit Off
101012	18A94	Need Cprsr 1A to Run For Oil Flow
102001	18E71	Low Refrigerant Temperature - Circuit 2
102002	18E72	Low Evaporator Refrigerant Pressure - Circuit 2
102003	18E73	High Differential Refrigerant Pressure
102004	18E74	High Refrigerant Pressure Ratio
102005	18E75	Low Evaporator Rfgt Temp - Circuit 2: Unit Off
102006	18E76	Evaporator Approach Error - Circuit 2
102007	18E77	High Evap Shell Rfgt Pressure - Circuit 2
102008	18E78	Loss of Oil for Compressor (Stopped) - Circuit 2
102009	18E79	Loss of Oil for Compressor (Running) - Circuit 2
102010	18E7A	High Oil Temperature - Circuit 2
102011	18E7B	Low Condenser Rfgt Temp - Circuit 2: Unit Off
111002	1B19A	High Evaporator Water Temperature
111003	1B19B	Evaporator Water Flow Overdue
111004	1B19C	Evaporator Water Flow Lost
141001	226C9	Condenser Water Flow Lost
141002	226CA	Condenser Water Flow Overdue
141003	226CB	High Pressure Cutout - Circuit 1

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
141004	226CC	Comm Loss: High Pressure Cutout Switch - Circuit 1
141005	226CD	Excessive Condenser Pressure - Circuit 1
142003	22AB3	High Pressure Cutout - Circuit 2
142004	22AB4	Comm Loss: High Pressure Cutout Switch - Circuit 2
142005	22AB5	Excessive Condenser Pressure - Circuit 2
171001	29BF9	Comm Loss: External Ice Building Command
171002	29BFA	Comm Loss: Ice Building Status Relay
231001	38659	Comm Loss: Evap Entering Water Temp
231002	3865A	Evaporator Entering Water Temp Sensor
231003	3865B	Comm Loss: Evap Leaving Water Temp
231004	3865C	Evaporator Leaving Water Temp Sensor
231005	3865D	Low Evaporator Water Temp (Unit On)
231006	3865E	Low Evaporator Water Temp (Unit Off)
231008	38660	Inverted Evaporator Water Temperature
231009	38661	Comm Loss: Evap Entering Water Pressure
231010	38662	Evaporator Entering Water Pressure
231011	38663	Comm Loss: Evap Leaving Water Pressure
231012	38664	Evaporator Leaving Water Pressure
231013	38665	Comm Loss: Water System Diff Pressure
231014	38666	Water System Differential Pressure
231015	38667	Comm Loss: Evap Water Pump Analog Output
231016	38668	Comm Loss: Chiller Bypass Valve Output
231017	38669	Comm Loss: Cond Water Pump Analog Output
251001	3D479	Comm Loss: Fan Inverter Fault - Circuit 1
251002	3D47A	Comm Loss: Fan Inverter Speed Command - Circuit 1
251003	3D47B	Fan Inverter Fault - Circuit 1
251004	3D47C	Comm Loss: Fan Control Relays - Circuit 1
251007	3D47F	Comm Loss: Noise Reduction Request Relay - Circuit 1
252001	3D861	Comm Loss: Fan Inverter Fault - Circuit 2
252002	3D862	Comm Loss: Fan Inverter Speed Command - Circuit 2
252003	3D863	Fan Inverter Fault - Circuit 2
252004	3D864	Comm Loss: Fan Control Relays - Circuit 2
252007	3D867	Comm Loss: Noise Reduction Request Relay - Circuit 2

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
291001	470B9	Comm Loss: Electronic Expansion Valve - Circuit 1
292001	474A1	Comm Loss: Electronic Expansion Valve - Circuit 2
331001	50CF9	Oil Analysis Recommended - Circuit 1
331002	50CFA	Oil Filter Change Recommended - Cprsr1A
331003	50CFB	Chiller Service Recommended
331004	50CFC	Evap Water Pump 1 Svc Recommended
331005	50CFD	Evap Water Pump 2 Svc Recommended
331006	50CFE	Mfr Maintenance Recommended - 1A
331007	50CFF	Mfr Maintenance Recommended - 1B
332001	510E1	Oil Analysis Recommended - Circuit 2
332002	510E2	Oil Filter Change Recommended - Cprsr2A
332006	510E6	Mfr Maintenance Recommended - 2A
332007	510E7	Mfr Maintenance Recommended - 2B
341003	5340B	Starts/Hours Modified 1A
341004	5340C	Comm Loss: Step Load - 1A
341005	5340D	Comm Loss: Slide Valve Load - 1A
341006	5340E	Comm Loss: Slide Valve Unload - 1A
341009	53411	AFD Fault - 1A
341010	53412	Comm Loss: Motor RLA Input - 1A
341012	53414	AFD %RLA Feedback - 1A
341014	53416	AFD Motor Current Overload - 1A
341015	53417	Comm Loss: Suction Rfgt Pressure - 1A
341016	53418	Suction Refrigerant Pressure Sensor - 1A
341017	53419	Comm Loss: AFD 1A
341018	5341A	Comm Loss: Suction Temperature
341019	5341B	Suction Temperature Sensor
341020	5341C	AFD High Pressure Cutout - 1A
342003	537F3	Starts/Hours Modified 1B
342004	537F4	Comm Loss: Step Load - 1B
342005	537F5	Comm Loss: Slide Valve Load - 1B
342006	537F6	Comm Loss: Slide Valve Unload - 1B
342015	537FF	Comm Loss: Suction Rfgt Pressure - 1B
342016	53800	Suction Refrigerant Pressure Sensor - 1B

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
351003	55B1B	Starts/Hours Modified 2A
351004	55B1C	Comm Loss: Step Load - 2A
351005	55B1D	Comm Loss: Slide Valve Load - 2A
351006	55B1E	Comm Loss: Slide Valve Unload - 2A
351009	55B21	AFD Fault - 2A
351010	55B22	Comm Loss: Motor RLA Input - 2A
351012	55B24	AFD %RLA Feedback - 2A
351014	55B26	AFD Motor Current Overload - 2A
351015	55B27	Comm Loss: Suction Rfgt Pressure - 2A
351016	55B28	Suction Refrigerant Pressure Sensor - 2A
351017	55B29	Comm Loss: AFD 2A
351020	55B2C	AFD High Pressure Cutout - 2A
352003	55F03	Starts/Hours Modified 2B
352004	55F04	Comm Loss: Step Load - 2B
352005	55F05	Comm Loss: Slide Valve Load - 2B
352006	55F06	Comm Loss: Slide Valve Unload - 2B
352015	55F0F	Comm Loss: Suction Rfgt Pressure - 2B
352016	55F10	Suction Refrigerant Pressure Sensor - 2B
361001	58229	No Differential Rfgt Pressure - 1A
361002	5822A	Low Differential Rfgt Pressure - 1A
361003	5822B	Oil Flow Protection Fault - 1A
361004	5822C	Low Oil Flow - 1A
361006	5822E	Comm Loss: Cprsr Disch Rfgt Temp - 1A
361007	5822F	Cprsr Disch Rfgt Temp Sensor - 1A
361008	58230	Comm Loss: Oil Pressure - 1A
361009	58231	Oil Pressure Sensor - 1A
361010	58232	Comm Loss: Oil Return Gas Pump Fill - Circuit 1
361011	58233	Low Discharge Superheat - 1A
361012	58234	Very Low Evap Rfgt Pressure - 1A
361013	58235	Comm Loss: Oil Return Gas Pump Drain - Circuit 1
361017	58239	High Cprsr Rfgt Discharge Temp - 1A
361020	5823C	Comm Loss: Oil Heater Relay 1A
361021	5823D	Comm Loss: High Pressure Cutout Sw - 1A

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
361022	5823E	High Pressure Cutout - 1A
361023	5823F	High Differential Rfgt Pressure - 1A
361024	58240	High Refrigerant Pressure Ratio - 1A
361025	58241	Very Low Discharge Superheat - 1A
361026	58242	High Cprsr Rfgt Discharge Temp - 1A
362001	58611	No Differential Rfgt Pressure - 1B
362002	58612	Low Differential Rfgt Pressure - 1B
362003	58613	Oil Flow Protection Fault - 1B
362004	58614	Low Oil Flow - 1B
362006	58616	Comm Loss: Cprsr Disch Rfgt Temp - 1B
362007	58617	Cprsr Disch Rfgt Temp Sensor - 1B
362008	58618	Comm Loss: Oil Pressure - 1B
362009	58619	Oil Pressure Sensor - 1B
362011	5861B	Low Discharge Superheat - 1B
362012	5861C	Very Low Evap Rfgt Pressure - 1B
362017	58621	High Cprsr Rfgt Discharge Temp - 1B
362021	58625	Comm Loss: High Pressure Cutout Sw - 1B
362022	58626	High Pressure Cutout - 1B
362023	58627	High Differential Rfgt Pressure - 1B
362024	58628	High Refrigerant Pressure Ratio - 1B
371001	5A939	No Differential Rfgt Pressure - 2A
371002	5A93A	Low Differential Rfgt Pressure - 2A
371003	5A93B	Oil Flow Protection Fault - 2A
371004	5A93C	Low Oil Flow - 2A
371006	5A93E	Comm Loss: Cprsr Disch Rfgt Temp - 2A
371007	5A93F	Cprsr Disch Rfgt Temp Sensor - 2A
371008	5A940	Comm Loss: Oil Pressure - 2A
371009	5A941	Oil Pressure Sensor - 2A
371010	5A942	Comm Loss: Oil Return Gas Pump Fill - Circuit 2
371011	5A943	Low Discharge Superheat - 2A
371012	5A944	Very Low Evap Rfgt Pressure - 2A
371013	5A945	Comm Loss: Oil Return Gas Pump Drain - Circuit 2
371017	5A949	High Cprsr Rfgt Discharge Temp - 2A

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
371020	5A94C	Comm Loss: Oil Heater Relay 2A
371021	5A94D	Comm Loss: High Pressure Cutout Sw - 2A
371022	5A94E	High Pressure Cutout - 2A
371023	5A94F	High Differential Rfgt Pressure - 2A
371024	5A950	High Refrigerant Pressure Ratio - 2A
371025	5A951	Very Low Discharge Superheat - 2A
371026	5A952	High Cprsr Rfgt Discharge Temp - 2A
372001	5AD21	No Differential Rfgt Pressure - 2B
372002	5AD22	Low Differential Rfgt Pressure - 2B
372003	5AD23	Oil Flow Protection Fault - 2B
372004	5AD24	Low Oil Flow - 2B
372006	5AD26	Comm Loss: Cprsr Disch Rfgt Temp - 2B
372007	5AD27	Cprsr Disch Rfgt Temp Sensor - 2B
372008	5AD28	Comm Loss: Oil Pressure - 2B
372009	5AD29	Oil Pressure Sensor - 2B
372011	5AD2B	Low Discharge Superheat - 2B
372012	5AD2C	Very Low Evap Rfgt Pressure - 2B
372017	5AD31	High Cprsr Rfgt Discharge Temp - 2B
372021	5AD35	Comm Loss: High Pressure Cutout Sw - 2B
372022	5AD36	High Pressure Cutout - 2B
372023	5AD37	High Differential Rfgt Pressure - 2B
372024	5AD38	High Refrigerant Pressure Ratio - 2B
381001	5D049	Restart Inhibit Invoked - 1A
381002	5D04A	Comm Loss: Motor Winding Tstat Cprsr1A
381003	5D04B	High Motor Winding Temperature - 1A
381160	5D0E8	High Motor Winding Temperature - Cprsr1A
381163	5D0EB	Comm Loss: Winding Temp 1, Cprsr1A
381164	5D0EC	Comm Loss: Winding Temp 2, Cprsr1A
381174	5D0F6	Motor Winding Temp Sensor - Cprsr1A
382001	5D431	Restart Inhibit Invoked - 1B
391001	5F759	Restart Inhibit Invoked - 2A
391002	5F75A	Comm Loss: Motor Winding Tstat Cprsr2A
391003	5F75B	High Motor Winding Temperature - 2A

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
391160	5F7F8	High Motor Winding Temperature - Cprsr2A
391163	5F7FB	Comm Loss: Winding Temp 1, Cprsr2A
391164	5F7FC	Comm Loss: Winding Temp 2, Cprsr2A
391174	5F806	Motor Winding Temp Sensor - Cprsr2A
392001	5FB41	Restart Inhibit Invoked - 2B
401001	61E69	Starter Failed to Arm/Start - 1A
401002	61E6A	Comm Loss: Starter 1A
401003	61E6B	AFD Comm Loss – 1A
401005	61E6D	Unexpected Starter Shutdown - 1A
401007	61E6F	AFD Interrupt Failure - 1A
401009	61E71	Starter Did Not Transition - 1A
401010	61E72	Starter Comm Loss: Main Processor - 1A
401011	61E73	Starter Fault Type I - 1A
401012	61E74	Starter Fault Type II - 1A
401013	61E75	Starter Fault Type III - 1A
401014	61E76	Transition Complete Input Shorted - 1A
401015	61E77	Phase Loss - 1A
401016	61E78	Phase Reversal - 1A
401017	61E79	Severe Current Imbalance - 1A
401018	61E7A	Power Loss - 1A
401019	61E7B	Momentary Power Loss - 1A
401020	61E7C	Motor Current Overload - 1A
401021	61E7D	Cprsr Did Not Accel: Shutdown - 1A
401022	61E7E	Cprsr Did Not Accel: Transition - 1A
401023	61E7F	Transition Complete Input Opened - 1A
401024	61E80	Starter Module Memory Error Type 1 - 1A
401025	61E81	Starter Module Memory Error Type 2 - 1A
401026	61E82	Starter Dry Run Test - 1A
401027	61E83	Under Voltage
401028	61E84	Over Voltage
401030	61E86	Starter Did Not Fully Accelerate
401032	61E88	Starter Contactor Interrupt Failure - 1A
401083	61EBB	Comm Loss: AFD Run Command - 1A

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
401086	61EBE	Comm Loss: Energy Meter Pulse Input
401087	61EBF	Comm Loss: AFD Speed Command 1A
401088	61EC0	AFD Fault - 1A
401089	61EC1	AFD Motor Current Overload - 1A
401091	61EC3	AFD %RLA Feedback - 1A
401092	61EC4	Comm Loss: AFD Fault Input 1A
401093	61EC5	AFD Motor Fault - 1A
401095	61EC7	AFD High Pressure Cutout - 1A
401097	61EC9	AFD Bump Complete - 1A
401098	61ECA	AFD Bump Current High - 1A
401099	61ECB	AFD Pump Out Speed Low - 1A
401100	61ECC	AFD Unhandled Fault - 1A
401101	61ECD	AFD Harmonic Filter Over Temperature - 1A
401102	61ECE	AFD Failure to Arm or Start - 1A
401103	61ECF	AFD Unexpected Shutdown - 1A
401105	61ED1	AFD Motor Speed Too Low - 1A
401106	61ED2	AFD Motor Speed Too High - 1A
401107	61ED3	Under Voltage 1A
401108	61ED4	Over Voltage 1A
401109	61ED5	AFD Fault Mains - 1A
402001	62251	Starter Failed to Arm/Start - 1B
402002	62252	Comm Loss: Starter 1B
402003	62253	AFD Comm Loss – 1B
402005	62255	Unexpected Starter Shutdown - 1B
402009	62259	Starter Did Not Transition - 1B
402010	6225A	Starter Comm Loss: Main Processor - 1B
402011	6225B	Starter Fault Type I - 1B
402012	6225C	Starter Fault Type II - 1B
402013	6225D	Starter Fault Type III - 1B
402014	6225E	Transition Complete Input Shorted - 1B
402015	6225F	Phase Loss - 1B
402016	62260	Phase Reversal - 1B
402017	62261	Severe Current Imbalance - 1B

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
402018	62262	Power Loss - 1B
402019	62263	Momentary Power Loss - 1B
402020	62264	Motor Current Overload - 1B
402021	62265	Cprsr Did Not Accel: Shutdown - 1B
402022	62266	Cprsr Did Not Accel: Transition - 1B
402023	62267	Transition Complete Input Opened - 1B
402024	62268	Starter Module Memory Error Type 1 - 1B
402025	62269	Starter Module Memory Error Type 2 - 1B
402026	6226A	Starter Dry Run Test - 1B
402030	6226E	Starter Did Not Fully Accelerate
402032	62270	Starter Contactor Interrupt Failure - 1B
402087	622A7	Comm Loss: AFD Speed Command 1B
402088	622A8	AFD Fault - 1B
402089	622A9	AFD Motor Current Overload - 1B
402090	622AA	Comm Loss: Motor RLA Input - 1B
402091	622AB	AFD %RLA Feedback - 1B
402092	622AC	Comm Loss: AFD Fault Input 1B
402102	622B6	AFD Failure to Arm or Start - 1B
411001	64579	Starter Failed to Arm/Start - 2A
411002	6457A	Comm Loss: Starter 2A
411003	6457B	AFD Comm Loss – 2A
411005	6457D	Unexpected Starter Shutdown - 2A
411007	6457F	AFD Interrupt Failure - 2A
411009	64581	Starter Did Not Transition - 2A
411010	64582	Starter Comm Loss: Main Processor - 2A
411011	64583	Starter Fault Type I - 2A
411012	64584	Starter Fault Type II - 2A
411013	64585	Starter Fault Type III - 2A
411014	64586	Transition Complete Input Shorted - 2A
411015	64587	Phase Loss - 2A
411016	64588	Phase Reversal - 2A
411017	64589	Severe Current Imbalance - 2A
411018	6458A	Power Loss - 2A

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
411019	6458B	Momentary Power Loss - 2A
411020	6458C	Motor Current Overload - 2A
411021	6458D	Cprsr Did Not Accel: Shutdown - 2A
411022	6458E	Cprsr Did Not Accel: Transition - 2A
411023	6458F	Transition Complete Input Opened - 2A
411024	64590	Starter Module Memory Error Type 1 - 2A
411025	64591	Starter Module Memory Error Type 2 - 2A
411026	64592	Starter Dry Run Test - 2A
411030	64596	Starter Did Not Transition - 2A
411032	64598	Starter Contactor Interrupt Failure - 2A
411083	645CB	Comm Loss: AFD Run Command - 2A
411087	645CF	Comm Loss: AFD Speed Command 2A
411088	645D0	AFD Fault - 2A
411089	645D1	AFD Motor Current Overload - 2A
411090	645D2	Comm Loss: Motor RLA Input - 2A
411091	645D3	AFD %RLA Feedback - 2A
411092	645D4	Comm Loss: AFD Fault Input 2A
411093	645D5	AFD Motor Fault - 2A
411095	645D7	AFD High Pressure Cutout - 2A
411097	645D9	AFD Bump Complete - 2A
411098	645DA	AFD Bump Current High - 2A
411099	645DB	AFD Pump Out Speed Low - 2A
411100	645DC	AFD Unhandled Fault - 2A
411101	645DD	AFD Harmonic Filter Over Temperature - 2A
411102	645DE	AFD Failure to Arm or Start - 2A
411103	645DF	AFD Unexpected Shutdown - 2A
411105	645E1	AFD Motor Speed Too Low - 2A
411106	645E2	AFD Motor Speed Too High - 2A
411107	645E3	Under Voltage 2A
411108	645E4	Over Voltage 2A
411109	645E5	AFD Fault Mains - 2A
412001	64961	Starter Failed to Arm/Start - 2B
412002	64962	Comm Loss: Starter 2B

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
412003	64963	AFD Comm Loss – 2B
412005	64965	Unexpected Starter Shutdown - 2B
412009	64969	Starter Did Not Transition - 2B
412010	6496A	Starter Comm Loss: Main Processor - 2B
412011	6496B	Starter Fault Type I - 2B
412012	6496C	Starter Fault Type II - 2B
412013	6496D	Starter Fault Type III - 2B
412014	6496E	Transition Complete Input Shorted - 2B
412015	6496F	Phase Loss - 2B
412016	64970	Phase Reversal - 2B
412017	64971	Severe Current Imbalance - 2B
412018	64972	Power Loss - 2B
412019	64973	Momentary Power Loss - 2B
412020	64974	Motor Current Overload - 2B
412021	64975	Cprsr Did Not Accel: Shutdown - 2B
412022	64976	Cprsr Did Not Accel: Transition - 2B
412023	64977	Transition Complete Input Opened - 2B
412024	64978	Starter Module Memory Error Type 1 - 2B
412025	64979	Starter Module Memory Error Type 2 - 2B
412026	6497A	Starter Dry Run Test - 2B
412030	6497E	Starter Did Not Fully Accelerate
412032	64980	Starter Contactor Interrupt Failure - 2B
412087	649B7	Comm Loss: AFD Speed Command 2B
412088	649B8	AFD Fault - 2B
412089	649B9	AFD Motor Current Overload - 2B
412090	649BA	Comm Loss: Motor RLA Input - 2B
412091	649BB	AFD %RLA Feedback - 2B
412092	649BC	Comm Loss: AFD Fault Input 2B
412102	649C6	AFD Failure to Arm or Start - 2B
441001	6BAA9	Comm Loss: Evaporator Water Pump 1 Relay
441002	6BAAA	Comm Loss: Evaporator Water Pump 2 Relay
441003	6BAAB	Evaporator Water Flow Lost - Pump1
441004	6BAAC	Evaporator Water Flow Lost - Pump2

Diagnostic Code (decimal)	Diagnostic Code (hex)	Diagnostic Name
441005	6BAAD	Evaporator Water Flow Overdue - Pump1
441006	6BAAE	Evaporator Water Flow Overdue - Pump2
441007	6BAAF	Evaporator Pump 1 Fault
441008	6BAB0	Evaporator Pump 2 Fault
441009	6BAB1	Comm Loss: Evaporator Pump 1 Fault Input
441010	6BAB2	Comm Loss: Evaporator Pump 2 Fault Input
441023	6BABF	Comm Loss: Evap Pump Inv1 Run Command
441024	6BAC0	Comm Loss: Evap Water Pump Inv Freq Input
441025	6BAC1	Comm Loss: Evap Pump Inv1 Fault Input
441026	6BAC2	Evap Pump 1 Starts Run time Written
441027	6BAC3	Evap Pump 2 Starts Run time Written
451001	6E1B9	EXV Pressure Equalization Failed
452001	6E5A1	EXV Pressure Equalization Failed
481001	756E9	Comm Loss: HR Entering Water Temp Sensor
481002	756EA	Heat Recovery Entering Water Temp Sensor
481003	756EB	Comm Loss: HR Leaving Water Temp Sensor
481004	756EC	Heat Recovery Leaving Water Temp Sensor
501001	7A509	Low Evaporator Oil Return Level - Circuit 1
501002	7A50A	Refrigerant Charge Loss Detected - Circuit 1
502001	7A8F1	Low Evaporator Oil Return Level - Circuit 2
502002	7A8F2	Refrigerant Charge Loss Detected - Circuit 2