Symbio™ 500 Integration Point List BACnet®

Modular Self-Contaned (SCWM*)

Date:07/31/2025
Firmware Release:V2.2
Reference Document: BAS-SVP087*-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 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.

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Units	Low Limit	High Limit
AI-1	Space Temperature Local	Indicates the space temperature value from a sensor wired to the controller	Unit Controls = Space Control or VAV with Space temp reset	Read	°F	-58	422
AI-2	Space Temperature Setpoint Local	Space Temperature Setpoint value from a sensor wired to the controller	Unit Controls = Space Control or VAV with Space temp reset	Read	°F	40	95
AI-11	Discharge Air Temperature	Indicates the discharge air temperature value from a sensor wired to the controller	All Units	Read	°F	-58	422
AI-12	Duct Static Pressure Local	Indicates the duct static pressure value from a sensor wired to the controller	VAV units only	Read	in(H2O)	-0.25	5.2
AI-21	Outdoor Air Temperature Local	Indicates the Outdoor Air Temperature value from a sensor wired to the controller	Units equipped with Airside Economizer	Read	°F	-58	422
AI-22	Outdoor Air Relative Humidity Local	Indicates the Outdoor Air Humidity value from a sensor wired to the controller	Units equipped with Airside Economizer w/comparative enthalpy	Read	%	-10	110
AI-32	Return Air Temperature Local	Indicates the return temperature value from a sensor wired to the controller	All Units	Read	°F	-58	422
AI-33	Return Air Humidity Local	Indicates the Return Air Humidity value from a sensor wired to the controller	Units equipped with Airside Economizer w/comparative enthalpy	Read	%	-10	110
AI-45	Entering Air Temperature	Indicates the entering air temperature value from a sensor wired to the controller	All Units	Read	°F	0	100
AI-46	Condenser Water Entering Temperature	Indicates the Condenser Water Entering Temperature from a connected wired sensor	All Units	Read	°F	-58	422
AI-47	Condenser Water Leaving Temperature	Indicates the Condenser Water Leaving Temperature value from a sensor wired to the controller	All Units	Read	°F	-58	422
AI-48	Condenser Tee Strainer High Pressure	Indicates the pressure on the high-pressure side of the tee strainer value from a sensor wired to the controller	All Units	Read	psi	-500.63	550
AI-49	Condenser Tee Strainer Low Pressure	Indicates the pressure on the low-pressure side of the tee strainer value from a sensor wired to the controller	All Units	Read	psi	-500.63	550
AI-62	Primary Filter Differential Pressure Local	Indicates the pressure drop across the filter bank	All Units	Read	in(H2O)	-0.25	2.5
AI-93	Discharge Gauge Pressure Compressor 1	Indicates Compressor 1 discharge pressure value from a sensor wired to the controller	All Units	Read	psi	0	750
AI-94	Suction Gauge Pressure Compressor 1	Indicates Compressor 1 suction pressure	All Units	Read	psi	0	750
AI-95	Suction Temperature Compressor 1	Indicates Compressor 1 suction temperature value from a sensor wired to the controller	All Units	Read	°F	-58	422
AI-96	Discharge Gauge Pressure Compressor 2	Indicates Compressor 2 discharge pressure	Units equipped with 2 or more Compressors	Read	psi	0	750
AI-97	Suction Gauge Pressure Compressor 2	Indicates Compressor 2 suction pressure value from a sensor wired to the controller	Units equipped with 2 or more Compressors	Read	psi	0	750
AI-98	Suction Temperature Compressor 2	Indicates Compressor 2 suction temperature	Units equipped with 2 or more Compressors	Read	°F	-58	422
AI-99	Discharge Gauge Pressure Compressor 3	Indicates Compressor 3 discharge pressure value from a sensor wired to the controller	Units equipped with 3 or more Compressors	Read	psi	0	750

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Units	Low Limit	High Limit
AI-100	Suction Gauge Pressure Compressor 3	Indicates Compressor 3 suction pressure value from a sensor wired to the controller	Units equipped with 3 or more Compressors	Read	psi	0	750
AI-101	Suction Temperature Compressor 3	Indicates Compressor 3 suction temperature	Units equipped with 3 or more Compressors	Read	°F	-58	422
AI-102	Discharge Gauge Pressure Compressor 4	Indicates Compressor 4 discharge pressure value from a sensor wired to the controller	Units equipped with 4 or more Compressors	Read	psi	0	750
AI-103	Suction Gauge Pressure Compressor 4	Indicates Compressor 4 suction pressure	Units equipped with 4 or more Compressors	Read	psi	0	750
AI-104	Suction Temperature Compressor 4	Indicates Compressor 4 suction temperature value from a sensor wired to the controller	Units equipped with 4 or more Compressors	Read	°F	-58	422
AI-105	Discharge Gauge Pressure Compressor 5	Indicates Compressor 5 discharge pressure	Units equipped with 5 or more Compressors	Read	psi	0	750
AI-106	Suction Gauge Pressure Compressor 5	Indicates Compressor 5 suction pressure value from a sensor wired to the controller	Units equipped with 5 or more Compressors	Read	psi	0	750
AI-107	Suction Temperature Compressor 5	Indicates Compressor 5 suction temperature	Units equipped with 5 or more Compressors	Read	°F	-58	422
AI-277	Discharge Gauge Pressure Circuit 6	Indicates Compressor 6 discharge pressure value from a sensor wired to the controller	Units equipped with Tandem Compressors	Read	psi	0	750
AI-278	Suction Gauge Pressure Circuit 6	Indicates Compressor 6 suction pressure	Units equipped with Tandem Compressors	Read	psi	0	750
AI-279	Suction Temperature Circuit 6	Indicates Compressor 6 suction temperature value from a sensor wired to the controller	Units equipped with Tandem Compressors	Read	°F	-58	422

Object Identifier	Object Name	Description	Configuration Dependency	Units	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AO-11	Heating Output Command	Indicates the Heating Output Command (%)	Units equipped with Auxiliary Heat	%	Read	-150	150	0
AO-20	Outdoor Air Damper Command	Indicates the unit commanded outside air damper position.	Units equipped with Airside Economizer	%	Read	-150	150	0
AO-25	Heating Output 1 Command	Indicates the demand requested for the electric modulating heat	Units equipped with Auxiliary Heat	%	Read	-150	150	0
AO-81	Compressor 1 Condenser Regulating Valve	Indicates the command used (%) to control the condenser regulating valve command for Compressor 1	All Units equipped with Head Pressure Control Valves	%	Read	0	100	0
AO-82	Compressor 2 Condenser Regulating Valve	Indicates the command used (%) to control the condenser regulating valve command for Compressor 2	Units equipped with 2 or more Compressors and Head Pressure Control Valves	%	Read	0	100	0
AO-83	Compressor 3 Condenser Regulating Valve	Indicates the command used (%) to control the condenser regulating valve command for Compressor 3	Units equipped with 3 or more Compressors and Head Pressure Control Valves	%	Read	-150	150	0
AO-84	Compressor 4 Condenser Regulating Valve	Indicates the command used (%) to control the condenser regulating valve command for Compressor 4	Units equipped with 4 or more Compressors and Head Pressure Control Valves	%	Read	-150	150	0
AO-90	Compressor 1 Variable Speed Command	Indicates the speed command (%) used to control Compressor 1 variable speed compressor	All Units	%	Read	-150	150	0
AO-92	Compressor 5 Condenser Regulating Valve	Indicates the command used (%) to control the condenser regulating valve command for Compressor 5	Units equipped with 5 or more Compressors and Head Pressure Control Valves	%	Read	-150	150	0
AO-93	Circuit 6 Condenser Regulating Valve	Indicates the command used (%) to control the condenser regulating valve command for the Tandem Compressor Circuit	Units equipped with Tandem Compressors and Head Pressure Control Valves Head Pressure Control Valves	%	Read	-150	150	0
AO-96	Supply Fan 1 Speed Command	Indicates the speed command (%) used to control Supply Fan 1	All Units	%	Read	0	100	0
AO-97	Supply Fan 2 Speed Command	Indicates the speed command (%) used to control Supply Fan 2	All Units	%	Read	0	100	0
AO-98	Supply Fan 3 Speed Command	Indicates the speed command (%) used to control Supply Fan 3	Units equipped with 3 or more Supply Fans	%	Read	0	100	0
AO-99	Supply Fan 4 Speed Command	Indicates the speed command (%) used to control Supply Fan 4	Units equipped with 4 or more Supply Fans	%	Read	0	100	0
AO-100	Supply Fan 5 Speed Command	Indicates the speed command (%) used to control Supply Fan 5	Units equipped with 5 or more Supply Fans	%	Read	0	100	0
AO-101	Supply Fan 6 Speed Command	Indicates the speed command (%) used to control Supply Fan 6	Units equipped with 6 Supply Fans	%	Read	0	100	0
AO-105	Water Side Economizer Valve	Indicates the command (%) used to control the waterside economizer control valve	Units equipped with Waterside economizer option	%	Read	-150	150	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-1	Occupied Cooling Setpoint	Used to define the occupied cooling setpoint when both heat and cool setpoints are used	Unit Controls = Space Control or VAV with Space temp reset	°F	72	Read	55	90	0
AV-2	Occupied Heating Setpoint	Used to define the occupied heating setpoint when both heat and cool setpoints are used	Unit Controls = Space Control or VAV with Space temp reset	°F	68	Read	50	80	0
AV-3	Occupied Offset	Difference between the occupied cool and heat setpoints when a single setpoint is used	Unit Controls = Space Control or VAV with Space temp reset	Δ °F	2	Write	1	10	0
AV-4	Occupied Standby Offset	Difference between the occupied standby cool and heat setpoints when a single setpoint is used	Unit Controls = Space Control or VAV with Space temp reset	Δ °F	4	Write	0	18	0
AV-5	Unoccupied Cooling Setpoint	Used to define the cooling temperature setpoint used for control in unoccupied mode	All Units	°F	85	Write	45	150	0
AV-6	Unoccupied Heating Setpoint	Used to define the heating temperature setpoint used for control in unoccupied mode	All Units	°F	60	Write	40	100	0
AV-7	Space Temperature Setpoint BAS	BAS-supplied space temperature setpoint value	Unit Controls = Space Control or VAV with Space temp reset	°F	72	Write	45	95	0
AV-8	Space Temperature Setpoint Active	Indicates the active space temperature setpoint being used by the controller	Unit Controls = Space Control or VAV with Space temp reset	°F	72	Read	45	100	0
AV-11	Outdoor Air Damper Position	Indicates OA Damper Actuator feedback signal.	Units equipped with Airside Economizer	%	0	Read	-150	150	0
AV-18	Discharge Air Reset Setpoint Max BAS	Value used to limit the Discharge Air Setpoint maximum value	Unit Controls = VAV	°F	65	Write	50	85	0
AV-21	Discharge Air Temperature Setpoint Active	Indicates the discharge air temperature setpoint actively being used for control.	All Units	°F	65	Read	45	130	0
AV-22	Discharge Air Temperature Setpoint Pgain	Proportional gain for Discharge fan speed on duct static pressure control	All Units		4	Write	0.1	20	0
AV-24	Discharge Air Cooling Setpoint BAS	Used to request the discharge air temperature cooling setpoint value	Unit Controls = Space Control	°F	55	Write	50	85	0
AV-25	Discharge Air Heating Setpoint BAS	Used to request the discharge air temperature heating setpoint value	Unit Controls = Space Control	°F	90	Write	30	135	0
AV-28	Discharge Air Temperature Setpoint Local	Calculated setpoint to control the Discharge Air Tempeature	Unit Controls = VAV	°F	60	Read	50	120	0
AV-35	Return Air Enthalpy Active	The return air enthalpy value being utilized by the unit	Units equipped with Airside Economizer w/comparative enthalpy	BTU/lb	28	Read	5	65	0
AV-36	Economizer Minimum Position Setpoint BAS	Used to request the economizer minimum position setpoint	Units equipped with Airside Economizer	%	10	Write	0	100	0
AV-38	Economizer Pgain	Proportional gain for Economizer PI controller	Units equipped with Airside Economizer		2	Write	0.5	25	0
AV-39	Mixed Air Low Limit Setpoint BAS	Mixed air temperature setpoint Low Limit	All Units	°F	45	Write	35	55	0
AV-41	Outdoor Air Damper Safety Pgain	Proportional gain for Outdoor Air Damper to prevent a freezestat trip	Units equipped with Airside Economizer		2	Write	1	20	0
AV-47	Economizer Outdoor Air Enable Setpoint BAS	Temperature setpoint below which economizing can be used	Units equipped with Airside Economizer	°F	65	Write	45	85	0
AV-48	Economizer Outdoor Air Enthalpy Enable Setpoint BAS	Used to determine the outdoor air enthalpy below which economizing is enabled	Units equipped with Airside Economizer w/comparative enthalpy	BTU/lb	25	Write	15	30	0
AV-49	Outdoor Air Enthalpy BAS	Outdoor air enthalpy BAS value	Units equipped with Airside Economizer w/comparative enthalpy	BTU/lb	32	Write	-10	65	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-50	Outdoor Air Enthalpy Active	The outdoor air enthalpy value being utilized by the unit	Units equipped with Airside Economizer w/comparative enthalpy	BTU/lb	32	Read	-10	65	0
AV-52	Cooling Capacity Status	Indicates the actual operating unit cooling capacity, in percent	All Units	%	0	Read	-150	150	0
AV-61	Heat Control Pgain	Proportional gain for Heating PI controller	Units equipped with Auxiliary Heat		1.5	Write	0.5	20	0
AV-62	Heating Capacity Primary Status	Indicates the unit (primary) heating capacity, in percent	Units equipped with Auxiliary Heat	%	0	Read	-150	150	0
AV-72	Duct Static Pressure Active	Indicates the duct static pressure active value from a sensor connected to the controller	VAV units only	in(H2O)	0	Read	-5.024	5.024	0
AV-73	Condenser Water Low Temperature Cutout	Setpoint used to indicate condenser water is in a freeze condition and will open the valve and start the pump to protect the coil	All Units	°F	35	Write	-58	482	0
AV-74	Space Temperature Active	Indicates the active space temperature being used by the controller	Unit Controls = Space Control or VAV with Space temp reset	°F	72	Read	-58	422	0
AV-75	Outdoor Air Temperature BAS	Used to send the outdoor air temperature sensor value	Units equipped with Airside Economizer	°F	70	Write	-58	150	0
AV-76	Outdoor Air Temperature Active	Indicates the active OA temperature currently being used by the controller	Units equipped with Airside Economizer	°F	0	Read	-58	150	0
AV-77	Space Temperature BAS	Used to send the space temperature value	Unit Controls = Space Control or VAV with SZVAV	°F	72	Write	40	100	900
AV-79	Space Humidity BAS	Used to send the space relative humidity value	Units equipped with Airside Economizer w/comparative enthalpy	%	0	Write	-150	150	0
AV-80	Space Humidity Active	Indicates the active space relative humidity being used by the controller	Units equipped with Airside Economizer w/comparative enthalpy	%	45	Read	0	100	0
AV-81	Outdoor Air Humidity BAS	Used to send the outdoor air humidity sensor value	Units equipped with Airside Economizer w/comparative enthalpy	%	35	Write	-2	105	0
AV-82	Outdoor Air Humidity Active	Indicates the active outdoor air humidity value used by the controller	Units equipped with Airside Economizer w/comparative enthalpy	%	35	Read	-2	105	0
AV-91	Duct Static Pressure Setpoint BAS	Used to request the duct static pressure setpoint value	VAV units only	in(H2O)	1.5	Write	0	5	0
AV-92	Duct Static Pressure Setpoint Active	Indicates the duct static pressure control setpoint value resulting from arbitration	VAV units only	in(H2O)	0	Read	-5.024	5.024	0
AV-101	Supply Fan Speed Pgain	Proportional gain for Supply Fan PI controller	All Units		8	Write	1	25	0
AV-104	Supply Fan Minimum Speed BAS	Minimum Speed value used for Supply Fan Speed Control	All Units	%	33	Write	20	100	0
AV-115	Supply Fan Speed Status	Estimated supply fan speed being utilized.	All Units	%	0	Read	-150	150	0
AV-118	Space Temperature Setpoint Default	Default value of Space Temperature setpoint when no BAS nor local setpoint is present	Unit Controls = Space Control or VAV with Space temp reset	°F	72.5	Write	65	85	0
AV-124	Cooling Command Request	Indicates the internal value actual operating unit cooling capacity, in percent	All Units		0	Read	-150	150	0
AV-125	Cooling Setpoint High Limit	Value used to limit cooling setpoint	All Units	°F	80	Write	65	95	0
AV-126	Cooling Setpoint Low Limit	Value used to limit cooling setpoint	All Units	°F	65	Write	45	75	0
AV-127	Heating Setpoint High Limit	Value used to limit heating setpoint	Units equipped with Auxiliary Heat	°F	80	Write	60	90	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-128	Heating Setpoint Low Limit	Value used to limit heating setpoint	Units equipped with Auxiliary Heat	°F	65	Write	45	75	0
AV-133	Active CoolCoil Control Sensor	Indicates the actual sensor value used for Cooling Control	All Units	°F	68	Read	-58	150	0
AV-134	Active CoolCoil Control Setpoint	Indicates the actual setpoint value used for Cooling Control	All Units	°F	68	Read	45	150	0
AV-135	Active HeatCoil Control Sensor	Indicates the actual sensor value used for Heating Control	Units equipped with Auxiliary Heat	°F	68	Read	-58	150	0
AV-136	Active HeatCoil Control Setpoint	Indicates the actual setpoint value used for Heating Control	Units equipped with Auxiliary Heat	°F	68	Read	45	150	0
AV-139	Cooling PID Output	Cooling PI controller output signal used in equipment logic	All Units	%	0	Read	0	100	0
AV-140	Heating PID Output	Heating PI controller output signal used in equipment logic	Units equipped with Auxiliary Heat	%	0	Read	0	100	0
AV-141	Optional Outdoor Air Minimum Position	Alternative Outdoor Air Damper Minimum position used in internal arbitration for Outdoor Air Damper Control	Units equipped with Airside Economizer	%	0	Read	0	99	0
AV-142	Damper Position Request	Calculated position request to be used for outdoor air damper control	Units equipped with Airside Economizer	%	0	Read	-20	110	0
AV-143	Heat Command Request	Calculated command to be used for heating control	Units equipped with Auxiliary Heat	%	0	Read	-10	100	0
AV-145	Heating PID Maximum Value	Maximum value limit used for PI controller output for heating control	Units equipped with Auxiliary Heat	%	100	Read	10	100	0
AV-148	Humidity Control Sensor	Value of sensor being used for humidity control	Units equipped with Airside Economizer w/comparative enthalpy	%	35	Read	0	100	0
AV-149	Cooling PID Maximum Value	Maximum value limit used for PI controller output for cooling control	All Units	%	100	Read	0	110	0
AV-150	Cooling Stages Requested	Calculated number of cooling stages required for cooling control	All Units		0	Read	0	10	0
AV-154	Economizer Minimum Position Setpoint Active	Indicates the economizer minimum position setpoint value resulting from arbitration	Units equipped with Airside Economizer	%	0	Read	0	100	0
AV-162	Compressor Speed Circuit 1	Calculated speed command to be used for variable speed compressor control	All Units	%	0	Read	-150	150	0
AV-173	Compressor P Gain	Proportional gain for Variable Speed Compressor PI controller	All Units		2	Write	-1000	1000	0
AV-189	Discharge Air High Temperature Cutout	Discharge air temperature high limit safety setpoint	All Units	°F	135	Write	-58	482	0
AV-190	Discharge Air Low Temperature Cutout	Discharge air temperature low limit safety setpoint	All Units	°F	35	Write	-58	482	0
AV-191	Maximum Discharge Air Heating Setpoint	Maximum value for discharge air temperature heating setpoint	Units equipped with Auxiliary Heat	°F	120	Write	-58	482	0
AV-193	Discharge Air Reset Setpoint Min BAS	Minimum value used for discharge air setpoint reset	Unit Controls = VAV	°F	55	Write	50	85	0
AV-203	Supply Fan Maximum Speed Local	Maximum local value of supply fan speed	All Units	%	100	Read	50	150	0
AV-204	Supply Fan Minimum Speed Local	Minimum local value of supply fan speed	All Units	%	35	Read	0	150	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-227	Return Temperature Setpoint BAS	Used to define the return temperature Setpoint	VAV units with fixed or return air reset	°F	72	Write	45	95	0
AV-281	Supply Fan Maximum Speed BAS	BAS value for supply fan maximum speed	All Units	%	100	Write	50	150	0
AV-308	Compressor 1 Max Cond Valve Setpoint	Maximum Condenser Valve position setpoint for Compressor 1	All Units equipped with Head Pressure Control Valves	%	86	Read	-150	150	0
AV-311	Compressor 1 Min Cond Valve Setpoint	Minimum Condenser Valve position setpoint for Compressor 1	All Units equipped with Head Pressure Control Valves	%	33	Read	-150	150	0
AV-314	Run Time - Compressor 1 (Hours)	Compressor 1 Runtime	All Units		0	Read	0	10000000	0
AV-325	Compressor 2 Max Cond Valve Setpoint	Maximum Condenser Valve position setpoint for Compressor 2	Units equipped with 2 or more Compressors and Head Pressure Control Valves	%	86	Read	-150	150	0
AV-326	Compressor 2 Min Cond Valve Setpoint	Minimum Condenser Valve position setpoint for Compressor 2	Units equipped with 2 or more Compressors and Head Pressure Control Valves	%	33	Read	-150	150	0
AV-327	Run Time - Compressor 2 (Hours)	Compressor 2 Runtime	Units equipped with 2 or more Compressors		0	Read	0	10000000	0
AV-339	Compressor 3 Max Cond Valve Setpoint	Maximum Condenser Valve position setpoint for Compressor 3	Units equipped with 3 or more Compressors and Head Pressure Control Valves	%	86	Read	-150	150	0
AV-340	Compressor 3 Min Cond Valve Setpoint	Minimum Condenser Valve position setpoint for Compressor 3	Units equipped with 3 or more Compressors and Head Pressure Control Valves	%	33	Read	-150	150	0
AV-341	Run Time - Compressor 3 (Hours)	Compressor 3 Runtime	Units equipped with 3 or more Compressors		0	Read	0	10000000	0
AV-353	Compressor 4 Max Cond Valve Setpoint	Maximum Condenser Valve position setpoint for Compressor 4	Units equipped with 4 or more Compressors and Head Pressure Control Valves	%	86	Read	-150	150	0
AV-354	Compressor 4 Min Cond Valve Setpoint	Minimum Condenser Valve position setpoint for Compressor 4	Units equipped with 4 or more Compressors and Head Pressure Control Valves	%	33	Read	-150	150	0
AV-355	Run Time - Compressor 4 (Hours)	Compressor 4 Runtime	Units equipped with 4 or more Compressors		0	Read	0	10000000	0
AV-361	Compressors Available	Total number of compressors available to be used for mechanical cooling	All Units		0	Read	0	10	0
AV-362	Frostat Cutout Temperature Setpt	Low limit safety cutout temperature setpoint	All Units	°F	32	Write	24.9	35.1	0
AV-363	Condenser Control Percent of Design	User Adjustment for what percentage of the design pressure the unit will control to	All Units	%	90	Write	50	100	0
AV-364	Condenser Design Max Pressure	Maximum design pressure of the condenser	All Units	psi	450	Read	-500.63	500.63	0
AV-365	Condenser Purge Time(Min)	Defines the condenser purge time (minutes)	All Units		20	Write	5	60	0
AV-366	Condenser Control Pressure Setpoint	Pressure Setpoint used to modulate condenser regulating valves	Units with Condenser Regulating Valves	psi	0	Read	-500.63	500.63	0
AV-368	Condenser Tee Strainer Calculated Diff Press	Indicates the software calculated differential pressure across the condenser strainer	All Units	psi	0	Read	-10	100	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-369	Condenser Tee Strainer Calculated High Pressure	Calculated High Pressure value (includes offset)	All Units	psi	0	Read	-10	600	0
AV-370	Condenser Tee Strainer Calculated Low Pressure	Calculated Low Pressure value (includes offset)	All Units	psi	0	Read	-10	600	0
AV-371	Condenser Tee Strainer Diff Pressure Alarm Setpt	Defines the differential pressure setpoint across the condenser strainer for alarming purpose	All Units	psi	8	Write	-500.63	500.63	0
AV-372	Condenser Tee Strainer High Pressure Offset	Internal value used for condenser tee strainer high pressure calculation	All Units	psi	0	Write	-15	15	0
AV-373	Condenser Tee Strainer Low Pressure Offset	Internal value used for condenser tee strainer low pressure calculation	All Units	psi	0	Write	-15	15	0
AV-374	Condenser Temperature Delta	Calculated Condenser delta T	All Units	Δ °F	0	Read	-5	40	0
AV-375	Condenser Valve Control P Gain	Proportional gain for Condenser valve PI controller	All Units		0.35	Write	0.1	10	0
AV-378	Duct Static Pressure Safety Lockout Setpoint	Software safety setpoint for High Static Pressure Cut out	VAV units only	in(H2O)	2	Write	-5.024	5.024	0
AV-380	Variable Speed Compressor Ramp Up Delay (Sec)	Defines the time delay (seconds) to allow variable speed compressor to modulate	All Units		65	Read	30	250	0
AV-382	Water Side Econ Calculated Enable Setpoint	Defines the temperature setpoint to enable waterside economizer	Units equipped with Waterside economizer option	°F	0	Read	-58	482	0
AV-383	Water Side Econ Sample Time (Min)	Defines the interval time (minutes) that will be used to sample water temperature for economizer purpose	Units equipped with Waterside economizer option		2	Write	1	5	0
AV-384	Water Side Econ Valve Control P Gain	Proportional gain for waterside economizer valve PI controller	Units equipped with Waterside economizer option		2.5	Write	-1000	1000	0
AV-385	Water Side Economizer Enable Offset	Defines offset used to disable waterside economizer	Units equipped with Waterside economizer option	Δ °F	7	Write	4	15	0
AV-386	Supply Fan Wall Harmonic Offset	Offset used to skip supply fan speeds (frequencies) related to harmonic vibrations on the even fans only	All Units		0	Read	-10	10	0
AV-389	Run Time - Compressor 5 (Hours)	Compressor 5 Runtime	Units equipped with 5 or more Compressors		0	Read	0	10000000	0
AV-399	WSE Mech Cool Delay Time (Min)	Delay time used to call for mechanical cooling when the Waterside Economizer is at 100% and can't meet the cooling need	All Units		5	Write	-1000	1000	0
AV-493	Economizer Outdoor Air Temperature Deadband	Outdoor air temperature deadband used for economizer decision	Units equipped with Airside Economizer	Δ °F	2	Write	1	5	0
AV-494	Economizer Outdoor Air Enthalpy Deadband	Enthalpy deadband used for economizer decision	Units equipped with Airside Economizer w/comparative enthalpy	BTU/lb	2	Write	1	5	0
AV-559	Discharge Air Setpoint Maximum	Discharge air temperature maximum setpoint	Unit controls = Space Control	°F	100	Write	70	150	0
AV-560	Discharge Air Setpoint Minimum	Discharge air temperature minimum setpoint	Unit controls = Space Control	°F	55	Write	45	70	0
AV-765	Cool Type	Describes the type of cooling in the unit	All Units		1	Read	1	50	0
AV-768	Reheat Type	Identifies the product reheat type	All Units		1	Read	1	200	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-770	Compressors Running	Total number of compressors actively operating in the unit	All Units		0	Read	-1	12	0
AV-774	Primary Filter Differential Pressure Alarm Setpoint BAS	Setpoint value used to generate dirty filter alarm	All Units	in(H2O)	1.5	Write	0	10	0
AV-790	Min Speed Setpt (RPM) Compressor 1	Minimum Speed (%) value used for RPM calculation for Compressor 1	All Units		2500	Read	1200	4000	0
AV-791	Max Speed Setpt (RPM) Compressor 1	Maximum Speed (%) value used for RPM calculation for Compressor 1	All Units		6600	Read	2000	7200	0
AV-792	Min Speed (RPM) Compressor 1	Minimum speed (RPM) value used for RPM calculation for Compressor 1	All Units		1200	Read	1100	15000	0
AV-793	Max Speed (RPM) Compressor 1	Maximum speed (RPM) value used for RPM calculation for Compressor 1	All Units		7200	Read	5500	15000	0
AV-794	Calculated Speed (RPM) Compressor 1	Software calculated RPM value for Compressor 1	All Units		0	Read	0	15000	0
AV-795	Calculated Max Speed (Percent) Compressor 1	Software calculated max speed (percent) for Compressor 1	All Units	%	0	Read	-150	150	0
AV-872	Differential Refrigerant Pressure Compressor 1	Indicates the differential pressure between condenser discharge and suction pressures for Compressor 1	All Units	psi	0	Read	-500.63	500.63	0
AV-873	Suction Saturated Refrigerant Temperature Compressor 1	Indicates the condenser suction saturated refrigerant temperature for Compressor 1	All Units	°F	0	Read	-58	482	0
AV-874	Superheat Temperature Compressor 1	Indicates the Superheat Temperature for Compressor 1	All Units	°F	0	Read	-58	482	0
AV-875	Evaporator Approach Temperature Compressor 1	Indicates the evaporator approach temperature for Compressor 1	All Units	°F	0	Read	-58	482	0
AV-876	Frostat Trips Today Compressor 1	Indicates the total number of froststat trips for Compressor 1. Counter resets every day.	All Units		0	Read	-1000	1000000	0
AV-877	Condenser Saturated Refrigerant Temperature Compressor 1	Indicates the condenser Saturated Refrigerant Temperature for Compressor 1	All Units	°F	0	Read	-58	482	0
AV-878	Condenser Approach Temperature Compressor 1	Indicates the condenser approach temperature for Compressor 1	All Units	Δ °F	0	Read	-10	40	0
AV-883	Differential Refrigerant Pressure Compressor 2	Indicates the differential pressure between condenser discharge and suction pressures for Compressor 2	Units equipped with 2 or more Compressors	psi	0	Read	-500.63	500.63	0
AV-884	Suction Saturated Refrigerant Temperature Compressor 2	Indicates the condenser suction saturated refrigerant temperature for Compressor 2	Units equipped with 2 or more Compressors	°F	0	Read	-58	482	0
AV-885	Superheat Temperature Compressor 2	Indicates the Superheat Temperature for Compressor 2	Units equipped with 2 or more Compressors	°F	0	Read	-58	482	0
AV-886	Evaporator Approach Temperature Compressor 2	Indicates the evaporator approach temperature for Compressor 2	Units equipped with 2 or more Compressors	°F	0	Read	-58	482	0
AV-887	Frostat Trips Today Compressor 2	Indicates the total number of froststat trips for Compressor 2. Counter resets every day.	Units equipped with 2 or more Compressors		0	Read	-1000	1000000	0
AV-888	Condenser Saturated Refrigerant Temperature Compressor 2	Indicates the condenser Saturated Refrigerant Temperature for Compressor 2	Units equipped with 2 or more Compressors	°F	0	Read	-58	482	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-889	Condenser Approach Temperature Compressor 2	Indicates the condenser approach temperature for Compressor 2	Units equipped with 2 or more Compressors	Δ °F	0	Read	-10	40	0
AV-900	Testing Run Time (Min)	Sets the test step time duration (minutes)	All Units		0	Read	-1000	1000	0
AV-901	Testing Time Remaining (Min)	Indicates the remaining time for current test step (minutes)	All Units		0	Read	-1000	1000	0
AV-904	Condenser Design Leaving Water Temperature	Design value used condenser leaving water temperature	All Units	°F	95	Read	-58	482	0
AV-905	Condenser Design Entering Water Temperature	Design value used condenser entering water temperature	All Units	°F	85	Read	-58	482	0
AV-906	Condenser Water Design Delta Temperature	Design value of condenser water delta temperature	All Units	Δ °F	10	Read	0	18	0
AV-908	Testing Mode Staging Time (sec)	Time delay used by the UCM to proceed to the next step in the test mode	All Units		45	Write	30	180	0
AV-949	Suction Saturated Refrigerant Temperature Compressor 3	Indicates the condenser suction saturated refrigerant temperature for Compressor 3	Units equipped with 3 or more Compressors	°F	0	Read	-58	482	0
AV-950	Differential Refrigerant Pressure Compressor 3	Indicates the differential pressure between condenser discharge and suction pressures for Compressor 3	Units equipped with 3 or more Compressors	psi	0	Read	-500.63	500.63	0
AV-951	Superheat Temperature Compressor 3	Indicates the Superheat Temperature for Compressor 3	Units equipped with 3 or more Compressors	°F	0	Read	-58	482	0
AV-952	Evaporator Approach Temperature Compressor 3	Indicates the evaporator approach temperature for Compressor 3	Units equipped with 3 or more Compressors	°F	0	Read	-58	482	0
AV-953	Frostat Trips Today Compressor 3	Indicates the total number of froststat trips for Compressor 3. Counter resets every day.	Units equipped with 3 or more Compressors		0	Read	-1000	1000000	0
AV-954	Condenser Saturated Refrigerant Temperature Compressor 3	Indicates the condenser Saturated Refrigerant Temperature for Compressor 3	Units equipped with 3 or more Compressors	°F	0	Read	-58	482	0
AV-955	Condenser Approach Temperature Compressor 3	Indicates the condenser approach temperature for Compressor 3	Units equipped with 3 or more Compressors	Δ °F	0	Read	-10	40	0
AV-960	Differential Refrigerant Pressure Compressor 4	Indicates the differential pressure between condenser discharge and suction pressures for Compressor 4	Units equipped with 4 or more Compressors	psi	0	Read	-500.63	500.63	0
AV-961	Suction Saturated Refrigerant Temperature Compressor 4	Indicates the condenser suction saturated refrigerant temperature for Compressor 4	Units equipped with 4 or more Compressors	°F	0	Read	-58	482	0
AV-962	Superheat Temperature Compressor 4	Indicates the Superheat Temperature for Compressor 4	Units equipped with 4 or more Compressors	°F	0	Read	-58	482	0
AV-963	Evaporator Approach Temperature Compressor 4	Indicates the evaporator approach temperature for Compressor 4	Units equipped with 4 or more Compressors	°F	0	Read	-58	482	0
AV-964	Frostat Trips Today Compressor 4	Indicates the total number of froststat trips for Compressor 4. Counter resets every day.	Units equipped with 4 or more Compressors		0	Read	-1000	1000000	0
AV-965	Condenser Saturated Refrigerant Temperature Compressor 4	Indicates the condenser Saturated Refrigerant Temperature for Compressor 4	Units equipped with 4 or more Compressors	°F	0	Read	-58	482	0
AV-966	Condenser Approach Temperature Compressor 4	Indicates the condenser approach temperature for Compressor 4	Units equipped with 4 or more Compressors	Δ °F	0	Read	-10	40	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-971	Differential Refrigerant Pressure Compressor 5	Indicates the differential pressure between condenser discharge and suction pressures for Compressor 5	Units equipped with 5 or more Compressors	psi	0	Read	-500.63	500.63	0
AV-972	Suction Saturated Refrigerant Temperature Compressor 5	Indicates the condenser suction saturated refrigerant temperature for Compressor 5	Units equipped with 5 or more Compressors	°F	0	Read	-58	482	0
AV-973	Superheat Temperature Compressor 5	Indicates the Superheat Temperature for Compressor 5	Units equipped with 5 or more Compressors	°F	0	Read	-58	482	0
AV-974	Evaporator Approach Temperature Compressor 5	Indicates the evaporator approach temperature for Compressor 5	Units equipped with 5 or more Compressors	°F	0	Read	-58	482	0
AV-975	Frostat Trips Today Compressor 5	Indicates the total number of froststat trips for Compressor 5. Counter resets every day.	Units equipped with 5 or more Compressors		0	Read	-1000	1000000	0
AV-976	Condenser Saturated Refrigerant Temperature Compressor 5	Indicates the condenser Saturated Refrigerant Temperature for Compressor 5	Units equipped with 5 or more Compressors	°F	0	Read	-58	482	0
AV-977	Condenser Approach Temperature Compressor 5	Indicates the condenser approach temperature for Compressor 5	Units equipped with 5 or more Compressors	Δ °F	0	Read	-10	40	0
AV-982	Differential Refrigerant Pressure Circuit 6	Indicates the differential pressure between condenser discharge and suction pressures for Compressor 6	Units equipped with Tandem Compressors	psi	0	Read	-500.63	500.63	0
AV-983	Suction Saturated Refrigerant Temperature Circuit 6	Indicates the condenser suction saturated refrigerant temperature for Compressor 6	Units equipped with Tandem Compressors	°F	0	Read	-58	482	0
AV-984	Superheat Temperature Circuit 6	Indicates the Superheat Temperature for Compressor 6	Units equipped with Tandem Compressors	°F	0	Read	-58	482	0
AV-985	Evaporator Approach Temperature Circuit 6	Indicates the evaporator approach temperature for Compressor 6	Units equipped with Tandem Compressors	°F	0	Read	-58	482	0
AV-986	Frostat Trips Today Circuit 6	Indicates the total number of frostat trips for Compressor 6. Counter resets every day.	Units equipped with Tandem Compressors		0	Read	-1000	1000000	0
AV-987	Condenser Saturated Refrigerant Temperature Circuit 6	Indicates the condenser Saturated Refrigerant Temperature for Compressor 6	Units equipped with Tandem Compressors	°F	0	Read	-58	482	0
AV-988	Condenser Approach Temperature Circuit 6	Indicates the condenser approach temperature for Compressor 6	Units equipped with Tandem Compressors	Δ °F	0	Read	-10	40	0
AV-990	Circuit 6 Max Cond Valve Setpoint	Defines the maximum condenser valve setpoint for Circuit 6	Units equipped with Tandem Compressors and Head Pressure Control Valves Head Pressure Control Valves		86	Read	50	100	0
AV-991	Circuit 6 Min Cond Valve Setpoint	Defines the minimum condenser valve setpoint for Circuit 6	Units equipped with Tandem Compressors and Head Pressure Control Valves Head Pressure Control Valves		33	Read	0	50	0
AV-992	Run Time - Compressor 6A (Hours)	Indicates the Compressor 6A total run time	Units equipped with Tandem Compressors		0	Read	0	10000000	0
AV-993	Run Time - Compressor 6B (Hours)	Indicates the Compressor 6B total run time	Units equipped with Tandem Compressors		0	Read	0	10000000	0
AV-998	Compressor 5 Max Cond Valve Setpoint	Defines the maximum condenser valve setpoint for Compressor 5	Units equipped with 5 or more Compressors and Head Pressure Control Valves		90	Read	50	100	0

Object Identifier	Object Name	Description	Configuration Dependency	Units	Relinquish Default	Read/ Write	Low Limit	High Limit	Heartbeat (seconds)
AV-999	Compressor 5 Min Cond Valve Setpoint	Defines the minimum condenser valve setpoint for Compressor 5	Units equipped with 5 or more Compressors and Head Pressure Control Valves		33	Read	0	50	0
AV-1000	Compressor 1 Min Cond Valve Setpoint Local	Defines the local minimum condenser valve setpoint for Compressor 1	All Units equipped with Head Pressure Control Valves	%	33	Write	-150	150	0
AV-1001	Compressor 1 Min Cond Valve Setpoint Active	Indicates the Active minimum condenser valve setpoint for Compressor 1	All Units equipped with Head Pressure Control Valves	%	33	Read	-150	150	0
AV-1002	Compressor 2 Min Cond Valve Setpoint Local	Defines the local minimum condenser valve setpoint for Compressor 2	Units equipped with 2 or more Compressors and Head Pressure Control Valves	%	33	Write	-150	150	0
AV-1003	Compressor 2 Min Cond Valve Setpoint Active	Indicates the Active minimum condenser valve setpoint for Compressor 2	Units equipped with 2 or more Compressors and Head Pressure Control Valves	%	33	Read	-150	150	0
AV-1004	Compressor 3 Min Cond Valve Setpoint Local	Defines the local minimum condenser valve setpoint for Compressor 3	Units equipped with 3 or more Compressors and Head Pressure Control Valves	%	33	Write	-150	150	0
AV-1005	Compressor 3 Min Cond Valve Setpoint Active	Indicates the Active minimum condenser valve setpoint for Compressor 3	Units equipped with 3 or more Compressors and Head Pressure Control Valves	%	33	Read	-150	150	0
AV-1006	Compressor 4 Min Cond Valve Setpoint Local	Defines the local minimum condenser valve setpoint for Compressor 4	Units equipped with 4 or more Compressors and Head Pressure Control Valves	%	33	Write	-150	150	0
AV-1007	Compressor 4 Min Cond Valve Setpoint Active	Indicates the Active minimum condenser valve setpoint for Compressor 4	Units equipped with 4 or more Compressors and Head Pressure Control Valves	%	33	Read	-150	150	0
AV-1008	Compressor 5 Min Cond Valve Setpoint Local	Defines the local minimum condenser valve setpoint for Compressor 5	Units equipped with 5 or more Compressors and Head Pressure Control Valves	%	33	Write	-150	150	0
AV-1009	Compressor 5 Min Cond Valve Setpoint Active	Indicates the Active minimum condenser valve setpoint for Compressor 5	Units equipped with 5 or more Compressors and Head Pressure Control Valves	%	33	Read	-150	150	0
AV-1010	Circuit 6 Min Cond Valve Setpoint Local	Defines the local minimum condenser valve setpoint for Circuit 6	Units equipped with Tandem Compressors and Head Pressure Control Valves Head Pressure Control Valves		33	Write	0	50	0
AV-1011	Circuit 6 Min Cond Valve Setpoint Active	Indicates the Active minimum condenser valve setpoint for Circuit 6	Units equipped with Tandem Compressors and Head Pressure Control Valves Head Pressure Control Valves		33	Read	0	50	0
AV-1012	Compressor 6A Sequence Number	Compressor rotation sequence number for tandem compressor 6A	Units equipped with Tandem Compressors		2	Read	1	10	0
AV-1013	Compressor 6B Sequence Number	Compressor rotation sequence number for tandem compressor 6B	Units equipped with Tandem Compressors		2	Read	1	10	0

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Object States	Polarity
BI-6	Mixed Air Low Temperature Cutout Alarm	Safety input for Low Limit Temperature cutout	Units with a hot water heating coil installed	Read	false = Normal true = Alarm	Normal
BI-9	Emergency Stop MSC	Emergency Stop command	All Units	Read	false = Stopped true = Auto	Normal
BI-10	External Auto Stop Input Status	Indicates the status of the externally-wired auto/stop input	All Units	Read	false = Stop true = Auto	Normal
BI-29	Occupancy Input	Indicates the status of the wired occupancy input	All Units	Read	false = Occupied true = Unoccupied	Normal
BI-34	High Temperature Limit Switch	Safety input for High Temperature limit	Units with the High Temperature Limit Switch feature	Read	false = In Alarm true = Normal	Normal
BI-35	Phase Monitor Status	Status of local Phase Monitor Input	All Units	Read	false = Tripped true = Okay	Normal
BI-42	Condenser Water Flow Switch	Indicates water flow proof in the condenser	All Units	Read	false = No Flow true = Flow	Normal
BI-43	Ventilation Relay Status	Indicates the ventillation mode needs to run	All Units	Read	false = Inactive true = Active	Normal
BI-90	High Pressure Cutout Compressor 1	Indicates status of High Pressure cutout safety device for Compressor 1	All Units	Read	false = Alarm true = Normal	Normal
BI-91	High Pressure Cutout Compressor 2	Indicates status of High Pressure cutout safety device for Compressor 2	Units equipped with 2 or more Compressors	Read	false = Alarm true = Normal	Normal
BI-92	High Pressure Cutout Compressor 3	Indicates status of High Pressure cutout safety device for Compressor 3	Units equipped with 3 or more Compressors	Read	false = Alarm true = Normal	Normal
BI-93	High Pressure Cutout Compressor 4	Indicates status of High Pressure cutout safety device for Compressor 4	Units equipped with 4 or more Compressors	Read	false = Alarm true = Normal	Normal
BI-94	High Pressure Cutout Compressor 5	Indicates status of High Pressure cutout safety device for Compressor 5	Units equipped with 5 or more Compressors	Read	false = Alarm true = Normal	Normal
BI-98	Compressor 1 VFD Fault	Indicates if a fault is present in the variable speed compressor drive	All Units	Read	false = Fault true = Normal	Normal
BI-104	Refrigerant Leak Detection System Input Compressor	Indicates the A2L sensor input in the condenser section	All Units	Read	false = Alarm true = Normal	Normal
BI-105	Refrigerant Leak Detection System Input Evaporator	Indicates the A2L sensor input in the evaporator section	All Units	Read	false = Alarm true = Normal	Normal
BI-107	Safety Circuit Status Compressor 2	Indicates the status of the safety circuit for Compressor 2	Units equipped with 2 or more Compressors	Read	false = Open true = Closed	Normal
BI-108	Safety Circuit Status Compressor 3	Indicates the status of the safety circuit for Compressor 3	Units equipped with 3 or more Compressors	Read	false = Open true = Closed	Normal
BI-109	Safety Circuit Status Compressor 4	Indicates the status of the safety circuit for Compressor 4	Units equipped with 4 or more Compressors	Read	false = Open true = Closed	Normal
BI-110	Safety Circuit Status Compressor 5	Indicates the status of the safety circuit for Compressor 5	Units equipped with 5 or more Compressors	Read	false = Open true = Closed	Normal
BI-111	Safety Circuit Status Compressor 6A	Indicates the status of the safety circuit for Compressor 6A	Units equipped with Tandem Compressors	Read	false = Open true = Closed	Normal
BI-112	Safety Circuit Status Compressor 6B	Indicates the status of the safety circuit for Compressor 6B	Units equipped with Tandem Compressors	Read	false = Open true = Closed	Normal
BI-114	Compressor 1 Status	Indicates the variable speed compressor operating status	All Units	Read	false = Off true = Running	Normal

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Object States	Polarity
BI-135	High Pressure Cutout Circuit 6	Indicates status of High Pressure cutout safety device for Compressor 6	Units equipped with Tandem Compressors	Read	false = Alarm true = Normal	Normal
BI-137	ECM Fault Supply Fan 1	Indicates the Fault status for Supply Fan 1	All Units	Read	false = Alarm true = Normal	Normal
BI-138	ECM Fault Supply Fan 2	Indicates the Fault status for Supply Fan 2	All Units	Read	false = Alarm true = Normal	Normal
BI-139	ECM Fault Supply Fan 3	Indicates the Fault status for Supply Fan 3	Units equipped with 3 or more Supply Fans	Read	false = Alarm true = Normal	Normal
BI-140	ECM Fault Supply Fan 4	Indicates the Fault status for Supply Fan 4	Units equipped with 4 or more Supply Fans	Read	false = Alarm true = Normal	Normal
BI-141	ECM Fault Supply Fan 5	Indicates the Fault status for Supply Fan 5	Units equipped with 5 or more Supply Fans	Read	false = Alarm true = Normal	Normal
BI-142	ECM Fault Supply Fan 6	Indicates the Fault status for Supply Fan 6	Units equipped with 6 Supply Fans	Read	false = Alarm true = Normal	Normal

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BO-1	Supply Fan Start Stop Command	Indicates fans 1-4 are being commanded on	All Units	Read	Off	false = Off true = On
BO-11	Compressor 1 Command	Indicates the Compressor 1 Start/Stop Command	All Units	Read	Normal	false = Normal true = Estop Active
BO-12	Compressor 2 Command	Indicates the Compressor 2 Start/Stop Command	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = Reset
BO-13	Compressor 3 Command	Indicates the Compressor 3 Start/Stop Command	Units equipped with 3 or more Compressors	Read	Off	false = Off true = On
BO-14	Compressor 4 Command	Indicates the Compressor 4 Start/Stop Command	Units equipped with 4 or more Compressors	Read	Off	false = Off true = On
BO-15	Compressor 5 Command	Indicates the Compressor 5 Start/Stop Command	Units equipped with 5 or more Compressors	Read	Off	false = Off true = On
BO-21	Heat Output 1	Indicates the Heat Output 1 Start/Stop Command	Units equipped with Staged Electric Heat	Read	Off	false = Off true = On
BO-22	Heat Output 2	Indicates the Heat Output 2 Start/Stop Command	Units equipped with Staged Electric Heat	Read	Off	false = Off true = On
BO-23	Heat Output 3	Indicates the Heat Output 3 Start/Stop Command	Units equipped with Staged Electric Heat	Read	Off	false = Off true = On
BO-44	Refrigerant Mitigation Push	Indicates the unit is in Refrigerant Mitigation	All Units	Read	Normal	false = Normal true = Alarm
BO-52	Compressor 6A Command	Indicates the Compressor 6A Start/Stop Command	Units equipped with Tandem Compressors	Read	Off	false = Off true = On
BO-53	Compressor 6B Command	Indicates the Compressor 6B Start/Stop Command	Units equipped with Tandem Compressors	Read	Off	false = Off true = On
BO-101	Supply Fan Start Stop Command 2	Indicates fans 5-6 are being commanded on	Units with 5 or more Supply Fans	Read	Off	false = Off true = On
BO-108	Compressor 1 VFD Alarm Reset	Variable Speed Compressor alarm reset command	All Units	Read	Normal	false = Normal true = Reset
BO-109	Compressor 1 E-Stop Shutdown Command	Variable Speed Compressor E-Stop Shutdown command	All Units	Read	Normal	false = Normal true = EStop Reset
BO-111	Supply Fan Status Output	Output indicating the Supply Fan has status.	All Units	Read	Off	false = Off true = On
BO-125	Cooling Tower Pump Request	Output to request Cooling Tower Pump operation	All Units	Read	Off	false = Off true = On
BO-126	Unit Alarm Output Command	Unit level alarm output	All Units	Read	Normal	false = Normal true = Alarm Present

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-76	Active CoolCoil Control Sensor Failed	Indicates if the sensor used to control Cooling Coil has failed	All Units	Read	No	false = No true = Yes
BV-77	Active HeatCoil Control Sensor Failed	Indicates if the sensor used to control Heating Coil has failed	Units equipped with Auxiliary Heat	Read	Yes	false = No true = Yes
BV-36	Alarm Reset	Used to reset unit latching alarms	Units equipped with 5 or more Compressors	Write	Normal	false = Normal true = Reset
BV-682	Circuit 6 Cond Purge Status	Indicates Circuit 6 Condenser Purge Status	Units equipped with Tandem Compressors and Condenser Regulating Valves	Read/ Write	Closed	false = Closed true = Open
BV-681	Circuit 6 Cond Valve Open	Indicates Circuit 6 Condenser Valve Open Status	Units equipped with Tandem Compressors and Condenser Regulating Valves	Read	Open	false = Closed true = Open
BV-602	Circuit 6 Failure Reset	Used to reset Compressor 5 latching failure alarm	Units equipped with Tandem Compressors	Write	Normal	false = Normal true = Reset
BV-608	Circuit 6 Safety Lockout	Indicates status of safety lockout of Compressor 5	Units equipped with Tandem Compressors	Read	Off	false = Off true = On
BV-190	Compressor 1 Calculated Status	Indicates Compressor 1 status	All Units	Read	Off	false = Off true = On
BV-191	Compressor 1 Call	Indicates Compressor 1 call from Test routine	All Units	Read	Stop	false = Stop true = Run
BV-193	Compressor 1 Cond Purge Status	Indicates Compressor 1 Condenser Purge Status	All Units	Read/ Write	Off	false = Off true = Active Purge
BV-194	Compressor 1 Cond Valve Open	Indicates Compressor 1 Condenser Valve Open Status	Units equipped with Condenser Regulating Valves	Read	Open	false = Closed true = Open
BV-195	Compressor 1 Failure Reset	Used to reset Compressor 1 latching failure alarm	All Units	Write	Normal	false = Normal true = Reset
BV-701	Compressor 1 Local Failure	Indicates Variable Speed Compressor failure status	All Units	Read	Off	false = Off true = On
BV-702	Compressor 1 Local Failure Reset	Used to reset Variable Speed Compressor failure	All Units	Read	Off	false = Off true = On
BV-29	Compressor 1 Lockout BAS	Used to lockout Compressor 1	All Units	Write	Available	false = Available true = Locked Out
BV-196	Compressor 1 Run Time Reset	Compressor 1 Runtime Reset	All Units	Write	Normal	false = Normal true = Reset
BV-197	Compressor 1 Safety Lockout	Indicates status of safety lockout of Compressor 1	All Units	Read	Off	false = Off true = On
BV-700	Compressor 1 VFD Auto Reset	Indicated an Auto Reset for the VFD is occuring	All Units	Read	Off	false = Off true = On
BV-200	Compressor 2 Calculated Status	Indicates Compressor 2 status	Units equipped with 2 or more Compressors	Read	Off	false = Off true = On
BV-201	Compressor 2 Call	Indicates Compressor 2 call from Test routine	Units equipped with 2 or more Compressors	Read	Stop	false = Stop true = Run
BV-203	Compressor 2 Cond Purge Status	Indicates Compressor 2 Condenser Purge Status	Units equipped with 2 or more Compressors and Condenser Regulating Valves	Read/ Write	Off	false = Off true = Active Purge

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-204	Compressor 2 Cond Valve Open	Indicates Compressor 2 Condenser Valve Open Status	Units equipped with 2 or more Compressors and Condenser Regulating Valves	Read	Open	false = Closed true = Open
BV-205	Compressor 2 Failure Reset	Used to reset Compressor 2 latching failure alarm	Units equipped with 2 or more Compressors	Write	Normal	false = Normal true = Reset
BV-30	Compressor 2 Lockout BAS	Used to lockout Compressor 2	Units equipped with 2 or more Compressors	Write	Available	false = Available true = Locked Out
BV-206	Compressor 2 Run Time Reset	Compressor 2 Runtime Reset	Units equipped with 2 or more Compressors	Write	Normal	false = Normal true = Reset
BV-207	Compressor 2 Safety Lockout	Indicates status of safety lockout of Compressor 2	Units equipped with 2 or more Compressors	Read	Off	false = Off true = On
BV-210	Compressor 3 Calculated Status	Indicates Compressor 3 status	Units equipped with 3 or more Compressors	Read	Off	false = Off true = On
BV-211	Compressor 3 Call	Indicates Compressor 3 call from Test routine	Units equipped with 3 or more Compressors	Read	Stop	false = Stop true = Run
BV-213	Compressor 3 Cond Purge Status	Indicates Compressor 3 Condenser Purge Status	Units equipped with 3 or more Compressors and Condenser Regulating Valves	Read/ Write	Off	false = Off true = Active Purge
BV-214	Compressor 3 Cond Valve Open	Indicates Compressor 3 Condenser Valve Open Status	Units equipped with 3 or more Compressors and Condenser Regulating Valves	Read	Open	false = Closed true = Open
BV-215	Compressor 3 Failure Reset	Used to reset Compressor 3 latching failure alarm	Units equipped with 3 or more Compressors	Write	Normal	false = Normal true = Reset
BV-31	Compressor 3 Lockout BAS	Used to lockout Compressor 3	Units equipped with 3 or more Compressors	Write	Available	false = Available true = Locked Out
BV-216	Compressor 3 Run Time Reset	Compressor 3 Runtime Reset	Units equipped with 3 or more Compressors	Write	Normal	false = Normal true = Reset
BV-217	Compressor 3 Safety Lockout	Indicates status of safety lockout of Compressor 3	Units equipped with 3 or more Compressors	Read	Off	false = Off true = On
BV-220	Compressor 4 Calculated Status	Indicates Compressor 4 status	Units equipped with 4 or more Compressors	Read	Off	false = Off true = On
BV-221	Compressor 4 Call	Indicates Compressor 4 call from Test routine	Units equipped with 4 or more Compressors	Read	Stop	false = Stop true = Run
BV-223	Compressor 4 Cond Purge Status	Indicates Compressor 4 Condenser Purge Status	Units equipped with 4 or more Compressors and Condenser Regulating Valves	Read/ Write	Off	false = Off true = Active Purge
BV-224	Compressor 4 Cond Valve Open	Indicates Compressor 4 Condenser Valve Open Status	Units equipped with 4 or more Compressors and Condenser Regulating Valves	Read	Open	false = Closed true = Open
BV-225	Compressor 4 Failure Reset	Used to reset Compressor 4 latching failure alarm	Units equipped with 4 or more Compressors	Write	Normal	false = Normal true = Reset
BV-32	Compressor 4 Lockout BAS	Used to lockout Compressor 4	Units equipped with 4 or more Compressors	Write	Available	false = Available true = Locked Out
BV-227	Compressor 4 Safety Lockout	Indicates status of safety lockout of Compressor 4	Units equipped with 4 or more Compressors	Read	Off	false = Off true = On
BV-231	Compressor 5 Calculated Status	Indicates Compressor 5 status	Units equipped with 5 or more Compressors	Read	Off	false = Off true = On

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-232	Compressor 5 Call	Indicates Compressor 5 call from Test routine	Units equipped with 5 or more Compressors	Read	Stop	false = Stop true = Run
BV-234	Compressor 5 Cond Purge Status	Indicates Compressor 5 Condenser Purge Status	Units equipped with 5 or more Compressors and Condenser Regulating Valves	Read/ Write	Off	false = Off true = Active Purge
BV-235	Compressor 5 Cond Valve Open	Indicates Compressor 5 Condenser Valve Open Status	Units equipped with 5 or more Compressors and Condenser Regulating Valves	Read	Open	false = Closed true = Open
BV-236	Compressor 5 Failure Reset	Used to reset Compressor 5 latching failure alarm	Units equipped with 5 or more Compressors	Write	Normal	false = Normal true = Reset
BV-67	Compressor 5 Lockout BAS	Used to lockout Compressor 5	Units equipped with 5 or more Compressors	Write	Available	false = Available true = Locked Out
BV-238	Compressor 5 Safety Lockout	Indicates status of safety lockout of Compressor 5	Units equipped with 5 or more Compressors	Read	Off	false = Off true = On
BV-671	Compressor 6A Calculated Status	Indicates Compressor 6A status	Units equipped with Tandem Compressors	Read	Off	false = Off true = On
BV-672	Compressor 6A Call	Indicates Compressor 6A call from Test routine	Units equipped with Tandem Compressors	Read	Stop	false = Stop true = Run
BV-673	Compressor 6A Lockout BAS	Used to lockout Compressor 6A	Units equipped with Tandem Compressors	Write	Available	false = Available true = Locked Out
BV-670	Compressor 6A Run Time Reset	Compressor 6A runtime reset	Units equipped with Tandem Compressors	Write	Normal	false = Normal true = Reset
BV-676	Compressor 6B Calculated Status	Indicates Compressor 6B status	Units equipped with Tandem Compressors	Read	Off	false = Off true = On
BV-677	Compressor 6B Call	Indicates Compressor 6B call from Test routine	Units equipped with Tandem Compressors	Read	Stop	false = Stop true = Run
BV-678	Compressor 6B Lockout BAS	Used to lockout Compressor 6B	Units equipped with Tandem Compressors	Write	Available	false = Available true = Locked Out
BV-675	Compressor 6B Run Time Reset	Compressor 6B runtime reset	Units equipped with Tandem Compressors	Write	Normal	false = Normal true = Reset
BV-250	Compressor Cond Valve Installed	Indicates if Condenser Valves are installed or not	All Units	Read/ Write	Not Installed	false = Not Installed true = Installed
BV-251	Condenser Water Flow Type	Used to define type of Condenser water flow (Variable or Constant)	Units with condenser water regulating valves installed	Write	Variable Flow	false = Variable Flow true = Constant Flow
BV-18	Cooling Safeties OK	Indicates that cooling permissive safeties status	All Units	Read	Yes	false = No true = Yes
BV-37	Diagnostic: Auto Reset	Diagnostic: Auto Reset	All Units	Read	Normal	false = Normal true = In Alarm
BV-720	Diagnostic: Circuit 6 Discharge Pressure Sensor Failure	Diagnostic: Circuit 6 Discharge Pressure Sensor Failure	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Failure
BV-721	Diagnostic: Circuit 6 High Pressure Shutdown	Diagnostic: Circuit 6 High Pressure Shutdown	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Alarm
BV-722	Diagnostic: Circuit 6 High Superheat	Diagnostic: Circuit 6 High Superheat	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Alarm
BV-723	Diagnostic: Circuit 6 Low Superheat	Diagnostic: Circuit 6 Low Superheat	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Alarm

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-725	Diagnostic: Circuit 6 Suction Pressure Sensor Failure	Diagnostic: Circuit 6 Suction Pressure Sensor Failure	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Failure
BV-756	Diagnostic: Circuit 6 Suction Temperature Sensor Failure	Diagnostic: Circuit 6 Suction Temperature Sensor Failure	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Failure
BV-260	Diagnostic: Compressor 1 Discharge Pressure Sensor Failure	Diagnostic: Compressor 1 Discharge Pressure Sensor Failure	All Units	Read	Normal	false = Normal true = Alarm
BV-262	Diagnostic: Compressor 1 High Pressure Shutdown	Diagnostic: Compressor 1 High Pressure Shutdown	All Units	Read	Normal	false = Normal true = In Alarm
BV-263	Diagnostic: Compressor 1 High Superheat	Diagnostic: Compressor 1 High Superheat	All Units	Read	Normal	false = Normal true = In Alarm
BV-264	Diagnostic: Compressor 1 Low Superheat	Diagnostic: Compressor 1 Low Superheat	All Units	Read	Normal	false = Normal true = In Alarm
BV-265	Diagnostic: Compressor 1 Safety Circuit Alarm	Diagnostic: Compressor 1 Safety Circuit Alarm	All Units	Read	Normal	false = Normal true = Failure
BV-266	Diagnostic: Compressor 1 Suction Pressure Sensor Failure	Diagnostic: Compressor 1 Suction Pressure Sensor Failure	All Units	Read	Normal	false = Normal true = In Failure
BV-267	Diagnostic: Compressor 1 Suction Temperature Sensor Failure	Diagnostic: Compressor 1 Suction Temperature Sensor Failure	All Units	Read	Normal	false = Normal true = In Failure
BV-270	Diagnostic: Compressor 2 Discharge Pressure Sensor Failure	Diagnostic: Compressor 2 Discharge Pressure Sensor Failure	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-272	Diagnostic: Compressor 2 High Pressure Shutdown	Diagnostic: Compressor 2 High Pressure Shutdown	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-273	Diagnostic: Compressor 2 High Superheat	Diagnostic: Compressor 2 High Superheat	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-274	Diagnostic: Compressor 2 Low Superheat	Diagnostic: Compressor 2 Low Superheat	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-275	Diagnostic: Compressor 2 Safety Circuit Alarm	Diagnostic: Compressor 2 Safety Circuit Alarm	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = Failure
BV-276	Diagnostic: Compressor 2 Suction Pressure Sensor Failure	Diagnostic: Compressor 2 Suction Pressure Sensor Failure	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-277	Diagnostic: Compressor 2 Suction Temperature Sensor Failure	Diagnostic: Compressor 2 Suction Temperature Sensor Failure	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-280	Diagnostic: Compressor 3 Discharge Pressure Sensor Failure	Diagnostic: Compressor 3 Discharge Pressure Sensor Failure	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-282	Diagnostic: Compressor 3 High Pressure Shutdown	Diagnostic: Compressor 3 High Pressure Shutdown	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-283	Diagnostic: Compressor 3 High Superheat	Diagnostic: Compressor 3 High Superheat	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-284	Diagnostic: Compressor 3 Low Superheat	Diagnostic: Compressor 3 Low Superheat	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-285	Diagnostic: Compressor 3 Safety Circuit Alarm	Diagnostic: Compressor 3 Safety Circuit Alarm	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = Failure
BV-286	Diagnostic: Compressor 3 Suction Pressure Sensor Failure	Diagnostic: Compressor 3 Suction Pressure Sensor Failure	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-287	Diagnostic: Compressor 3 Suction Temperature Sensor Failure	Diagnostic: Compressor 3 Suction Temperature Sensor Failure	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = In Failure

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-290	Diagnostic: Compressor 4 Discharge Pressure Sensor Failure	Diagnostic: Compressor 4 Discharge Pressure Sensor Failure	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-292	Diagnostic: Compressor 4 High Pressure Shutdown	Diagnostic: Compressor 4 High Pressure Shutdown	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-293	Diagnostic: Compressor 4 High Superheat	Diagnostic: Compressor 4 High Superheat	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-294	Diagnostic: Compressor 4 Low Superheat	Diagnostic: Compressor 4 Low Superheat	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-295	Diagnostic: Compressor 4 Safety Circuit Alarm	Diagnostic: Compressor 4 Safety Circuit Alarm	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = Failure
BV-296	Diagnostic: Compressor 4 Suction Pressure Sensor Failure	Diagnostic: Compressor 4 Suction Pressure Sensor Failure	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-297	Diagnostic: Compressor 4 Suction Temperature Sensor Failure	Diagnostic: Compressor 4 Suction Temperature Sensor Failure	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-703	Diagnostic: Compressor 5 Discharge Pressure Sensor Failure	Diagnostic: Compressor 5 Discharge Pressure Sensor Failure	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-704	Diagnostic: Compressor 5 High Pressure Shutdown	Diagnostic: Compressor 5 High Pressure Shutdown	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-705	Diagnostic: Compressor 5 High Superheat	Diagnostic: Compressor 5 High Superheat	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-706	Diagnostic: Compressor 5 Low Superheat	Diagnostic: Compressor 5 Low Superheat	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = In Alarm
BV-707	Diagnostic: Compressor 5 Safety Circuit Alarm	Diagnostic: Compressor 5 Safety Circuit Alarm	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-708	Diagnostic: Compressor 5 Suction Pressure Sensor Failure	Diagnostic: Compressor 5 Suction Pressure Sensor Failure	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-709	Diagnostic: Compressor 5 Suction Temperature Sensor Failure	Diagnostic: Compressor 5 Suction Temperature Sensor Failure	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = In Failure
BV-727	Diagnostic: Compressor 6A Safety Circuit Alarm	Diagnostic: Compressor 6A Safety Circuit Alarm	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Failure
BV-728	Diagnostic: Compressor 6B Safety Circuit Alarm	Diagnostic: Compressor 6B Safety Circuit Alarm	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = In Failure
BV-322	Diagnostic: Condenser Water Flow Loss	Diagnostic: Condenser Water Flow Loss	All Units	Read	Normal	false = Normal true = Flow Loss
BV-70	Diagnostic: Condenser Water Low Temperature Lockout	Diagnostic: Condenser Water Low Temperature Lockout	All Units	Read	Normal	false = Normal true = In Alarm
BV-72	Diagnostic: Dirty Air Filter	Diagnostic: Dirty Air Filter	All Units	Read	Clean	false = Clean true = Dirty
BV-320	Diagnostic: Dirty Condenser Tee Filter	Diagnostic: Dirty Condenser Tee Filter	All Units	Read	Clean	false = Clean true = Dirty
BV-732	Diagnostic: Discharge Air High Temperature Limit Switch	Diagnostic: Discharge Air High Temperature Limit Switch	Units with the High Temperature Switch Installed	Read	Normal	false = Normal true = In Alarm
BV-41	Diagnostic: Discharge Air High Temperature Lockout	Diagnostic: Discharge Air High Temperature Lockout	All Units	Read	Normal	false = Normal true = In Alarm
BV-108	Diagnostic: Discharge Air Low Temperature Lockout	Diagnostic: Discharge Air Low Temperature Lockout	All Units	Read	Normal	false = Normal true = In Alarm

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-42	Diagnostic: Discharge Air Temperature Source Failure	Diagnostic: Discharge Air Temperature Source Failure	All Units	Read	Normal	false = Normal true = In Alarm
BV-15	Diagnostic: Duct Static Pressure Failure	Diagnostic: Duct Static Pressure Failure	VAV units only	Read	Normal	false = Normal true = Fail
BV-81	Diagnostic: Humidity Control Sensor Failure	Diagnostic: Humidity Control Sensor Failure	Units equipped with Airside Economizer w/comparative enthalpy	Read	Normal	false = Normal true = Fail
BV-14	Diagnostic: Outdoor Air Humidity Source Failure	Diagnostic: Outdoor Air Humidity Source Failure	Units equipped with Airside Economizer w/comparative enthalpy	Read	Normal	false = Normal true = In Alarm
BV-13	Diagnostic: Outdoor Air Temperature Source Failure	Diagnostic: Outdoor Air Temperature Source Failure	Units equipped with Airside Economizer	Read	Normal	false = Normal true = In Alarm
BV-321	Diagnostic: Software High Duct Static Alarm	Diagnostic: Software High Duct Static Alarm	VAV units only	Read	Normal	false = Normal true = In Alarm
BV-12	Diagnostic: Space Humidity Source Failure	Diagnostic: Space Humidity Source Failure	Units equipped with Airside Economizer w/comparative enthalpy	Read	Normal	false = Normal true = Fail
BV-11	Diagnostic: Space Temperature Source Failure	Diagnostic: Space Temperature Source Failure	Unit Controls = Space Control or VAV with Space temp reset	Read	Normal	false = Normal true = In Alarm
BV-47	Discharge Air Reset Lockout	Allows the unit to do a Fixed or Reset Discharge Air Control	Units Controls = VAV	Write	Reset Active	false = Reset Active true = Reset Locked Out
BV-182	Economizer Include Outdoor Air Temp Limit	Enables the use of the Economizer Outdoor Air Enable Setpoint BAS in the economizier decision	Units equipped with Airside Economizer	Write	No	false = No true = Yes
BV-75	Economizer Interlock OK	Indicates the economizer is unable to keep up and needs mechanical cooling	All Units	Read	Yes	false = No true = Yes
BV-579	Factory Startup	Starts the Units up as the factory does, to step through self test steps	All Units	Write	Field Startup	false = Field Startup true = Factory Startup
BV-62	Fan Latch	Internal point used to latch supply fan operation	All Units	Read	Off	false = Off true = On
BV-65	Fan Safeties OK	Indicates fan safeties status	All Units	Read	Yes	false = No true = Yes
BV-325	Filter Alarm Reset	Filter Alarm Reset	All Units	Write	Off	false = Off true = Reset
BV-329	Front Panel Auto Stop	Front Panel Auto Stop	All Units	Write	Stop	false = Stop true = Auto
BV-21	Heat Cool Mode Active	Indicates unit active mode	All Units	Read	Heat	false = Heat true = Cool
BV-80	Heating Lockout BAS	Used to lockout Heating	Units equipped with Auxiliary Heat	Write	Inactive	false = Inactive true = Locked Out
BV-683	Lead Tandem Compressor	Indicates the Lead tandem compressor of circuit 6	Units equipped with Tandem Compressors	Read/ Write	Comp 6A	false = Comp 6A true = Comp 6B
BV-395	Low Superheat Auto Reset	Automatically resets the low superheat alarm	All Units	Read	Normal	false = Normal true = Reset
BV-52	Mixed Air Low Limit Active	Indicates when mixed air low limit temperature safety is active	All Units	Read	Off	false = Off true = On
BV-731	MSC Heat Placement	Indicates if remote heat is installed in the unit	All Units	Read	Not Remote	false = Not Remote true = Remote
BV-22	Night Heat Cool	Indicates status of Unoccupied Heat/Cool operation	All Units	Read	Off	false = Off true = On

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-78	Optional Heat Enable Command	Used to lock enable the heat in specific conditions determined by the controller	Units equipped with Auxiliary Heat	Read	Off	false = Off true = On
BV-79	Optional Heat Lockout	Used to lock out the heat in specific conditions determined by the controller	Units equipped with Auxiliary Heat	Read	Inactive	false = Inactive true = Locked Out
BV-64	Outdoor Air Damper at Max	Indicates when Outdoor Air Damper is at maximum open position	Units equipped with Airside Economizer	Read	No	false = No true = Yes
BV-556	Refrigerant Mitigation Active	Active when the Controller is in a mitigation state for any reason	All Units	Read	Normal	false = Normal true = Alarm
BV-667	Set Flow Switch	Used by the end user to open the Condenser Water valves to set the flow switch	Units with condenser regulating valves	Write	Off	false = Off true = On
BV-63	Startup Delay Completed	Indicates when delay startup is completed to allow cooling/heating	All Units	Read	No	false = No true = Yes
BV-184	Supply Air Tempering Status	Indicates the status of the Supply Air Tempering function	Units equipped with Auxiliary Heat	Read	Inactive	false = Inactive true = Active
BV-330	Supply Fan 1 Calculated Status	Indicates supply Fan 1 calculated status	All Units	Read	Running	false = Off true = Running
BV-331	Supply Fan 1 Failure	Indicates supply Fan 1 failure status	All Units	Read	Failed	false = Normal true = Failed
BV-335	Supply Fan 2 Calculated Status	Indicates supply Fan 2 calculated status	All Units	Read	Running	false = Off true = Running
BV-336	Supply Fan 2 Failure	Indicates supply Fan 2 failure status	All Units	Read	Failed	false = Normal true = Failed
BV-340	Supply Fan 3 Calculated Status	Indicates supply Fan 3 calculated status	Units equipped with 3 or more Supply Fans	Read	Running	false = Off true = Running
BV-341	Supply Fan 3 Failure	Indicates supply Fan 3 failure status	Units equipped with 3 or more Supply Fans	Read	Failed	false = Normal true = Failed
BV-345	Supply Fan 4 Calculated Status	Indicates supply Fan 4 calculated status	Units equipped with 4 or more Supply Fans	Read	Running	false = Off true = Running
BV-346	Supply Fan 4 Failure	Indicates supply Fan 4 failure status	Units equipped with 4 or more Supply Fans	Read	Failed	false = Normal true = Failed
BV-350	Supply Fan 5 Calculated Status	Indicates supply Fan 5 calculated status	Units equipped with 5 or more Supply Fans	Read	Running	false = Off true = Running
BV-351	Supply Fan 5 Failure	Indicates supply Fan 5 failure status	Units equipped with 5 or more Supply Fans	Read	Failed	false = Normal true = Failed
BV-355	Supply Fan 6 Calculated Status	Indicates supply Fan 6 calculated status	Units equipped with 6 Supply Fans	Read	Running	false = Off true = Running
BV-356	Supply Fan 6 Failure	Indicates supply Fan 6 failure status	Units equipped with 6 Supply Fans	Read	Failed	false = Normal true = Failed
BV-360	Supply Fan Calculated Status	Indicates if any Supply Fan is running	All Units	Read	Off	false = Off true = Running
BV-2	Supply Fan Failure Reset	Used to reset Supply fan failure	All Units	Write	Normal	false = Normal true = Reset
BV-684	Tandem Compressor Rotate Schedule=BAS/Local	Defines if local or BAS rotation scheme will be used	Units equipped with Tandem Compressors	Write	Local	false = BAS true = Local
BV-685	Tandem Compressor Rotation BAS	When BAS rotation is selected, this point is used to trigger tandem compressors rotation	Units equipped with Tandem Compressors	Write	Normal	false = Normal true = Rotate

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
BV-715	Warning: Circuit 6 Frostat Warning	Warning: Circuit 6 Frostat Warning	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = Warning Active
BV-716	Warning: Circuit 6 High Cond Approach Temp	Warning: Circuit 6 High Cond Approach Temp	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = Warning Active
BV-717	Warning: Circuit 6 High Discharge Press Warning	Warning: Circuit 6 High Discharge Press Warning	Units equipped with Tandem Compressors	Read	Normal	false = Normal true = Warning Active
BV-365	Warning: Compressor 1 Cond Limit Status	Warning: Compressor 1 Cond Limit Status	All Units	Read	Normal	false = Normal true = Warning Active
BV-366	Warning: Compressor 1 Frostat Limit Status	Warning: Compressor 1 Frostat Limit Status	All Units	Read	Normal	false = Normal true = Warning Active
BV-367	Warning: Compressor 1 High Cond Approach Temp	Warning: Compressor 1 High Cond Approach Temp	All Units	Read	Normal	false = Normal true = Warning Active
BV-370	Warning: Compressor 2 Frostat Warning	Warning: Compressor 2 Frostat Warning	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-372	Warning: Compressor 2 High Cond Approach Temp	Warning: Compressor 2 High Cond Approach Temp	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-371	Warning: Compressor 2 High Discharge Press Warning	Warning: Compressor 2 High Discharge Press Warning	Units equipped with 2 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-375	Warning: Compressor 3 Frostat Warning	Warning: Compressor 3 Frostat Warning	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-377	Warning: Compressor 3 High Cond Approach Temp	Warning: Compressor 3 High Cond Approach Temp	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-376	Warning: Compressor 3 High Discharge Press Warning	Warning: Compressor 3 High Discharge Press Warning	Units equipped with 3 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-380	Warning: Compressor 4 Frostat Warning	Warning: Compressor 4 Frostat Warning	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-382	Warning: Compressor 4 High Cond Approach Temp	Warning: Compressor 4 High Cond Approach Temp	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-381	Warning: Compressor 4 High Discharge Press Warning	Warning: Compressor 4 High Discharge Press Warning	Units equipped with 4 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-710	Warning: Compressor 5 Frostat Warning	Warning: Compressor 5 Frostat Warning	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-712	Warning: Compressor 5 High Cond Approach Temp	Warning: Compressor 5 High Cond Approach Temp	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-711	Warning: Compressor 5 High Discharge Press Warning	Warning: Compressor 5 High Discharge Press Warning	Units equipped with 5 or more Compressors	Read	Normal	false = Normal true = Warning Active
BV-363	Warning: High Condenser Water Delta Temperature	Warning: High Condenser Water Delta Temperature	All Units	Read	Normal	false = Normal true = Warning Active
BV-364	Warning: High Condenser Water Entering Temperature	Warning: High Condenser Water Entering Temperature	All Units	Read	Normal	false = Normal true = Warning Active
BV-257	Water Side Econ Purge Status	Indicates Waterside Economizer Purge Status	Units equipped with Waterside economizer option	Read/ Write	Off	false = Off true = Active Purge
BV-255	Water Side Economizer Lockout BAS	Used to lockout Waterside Economizer	Units equipped with Waterside economizer option	Write	Available	false = Available true = Locked Out

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-1	Occupancy Request	Used by the BMS to command the unit into an occupancy mode	All Units	Write	[5, Auto]	[1, Occupied] [2, Unoccupied] [3, Occupied Bypass] [4, Occupied Standby] [5, Auto]
MV-2	Occupancy Status	Indicates the active occupancy mode of the controller	All Units	Read	[5, Auto]	[1, Occupied] [2, Unoccupied] [3, Occupied Bypass] [4, Occupied Standby] [5, Auto]
MV-3	Heat Cool Mode Request	Used to command the unit into a heat/cool mode	All Units	Write	[1, Auto]	[1, Auto] [2, Heat] [3, Morning Warm-up] [4, Cool] [5, Night Purge] [6, Pre Cool] [7, Off] [8, Test] [9, Emergency Heat] [10, Fan Only] [11, Free Cool] [12, Ice-Making] [13, Maximum Heat] [14, Economizer] [15, Dehumidify] [16, Calibrate]
MV-4	Heat Cool Mode Status	Indicates the current heat cool mode of the controller	All Units	Read	[1, Auto]	[1, Auto] [2, Heat] [3, Morning Warm-up] [4, Cool] [5, Night Purge] [6, Pre Cool] [7, Off] [8, Test] [9, Emergency Heat] [10, Fan Only] [11, Free Cool] [12, Ice-Making] [13, Maximum Heat] [14, Economizer] [15, Dehumidify] [16, Calibrate]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-8	Emergency Override BAS	Used to command the unit into an emergency mode of operation	All Units	Write	[1, Normal]	[1, Normal] [2, Pressurize] [3, Depressurize] [4, Purge] [5, Shutdown] [6, Fire]
MV-9	Water Valve Override	Used to override the Hot water valve	Units equipped with hot water reheat	Write	[1, Off]	[1, Off] [2, Not Valid] [3, CHW Open] [4, HW Open] [5, Open] [6, Close]
MV-11	Economizer Airside Enable BAS	Normally provided by the BAS to enable airside economizing	Units equipped with Water side economizer option	Write	[3, Auto]	[1, Disabled] [2, Enabled] [3, Auto]
MV-14	Economizer Mode	Used to indicate the method of enabling airside economizing	Units equipped with Water side economizer option	Read	[1, Disabled]	[1, Disabled] [2, Fixed Dry Bulb] [3, Differential Dry Bulb] [4, Fixed Enthalpy] [5, Differential Enthalpy] [6, Fixed Dewpoint and Dry Bulb] [7, BAS Control]
MV-15	Economizer System Status	Indicates the operating state of the airside economizer system.	Units equipped with Water side economizer option	Read	[3, Not Present]	[1, Disabled] [2, Enabled] [3, Not Present]
MV-36	Heat Cool Mode Display Status	Indicates the current heat cool mode of the controller	All Units	Read	[1, Auto]	[1, Auto] [2, Heat] [3, Morning Warm-up] [4, Cool] [5, Night Purge] [6, Pre Cool] [7, Off] [8, Dehum-Heating] [9, Emergency Heat] [10, Fan Only] [11, Free Cool] [12, Ice-Making] [13, Maximum Heat] [14, Economizer] [15, Dehumidify] [16, Dehum-Cooling]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-42	DX Staging Status	Indicates current status of DX cooling staging algorithm	All Units	Read	[1, Normal]	[1, Normal] [2, Start Interval Active] [3, Shutdown Delay Active] [4, Subtract Suspended]
MV-43	Heat Staging Status	Indicates current status of Heating staging algorithm	Units equipped with Auxiliary Heat	Read	[1, Normal]	[1, Normal] [2, Start Interval Active] [3, Shutdown Delay Active] [4, Subtract Suspended]
MV-60	Discharge Air Temperature Setpoint Source Status	Indicates the source of Discharge Air Temperature setpoint	All Units	Read	[4, Not Controlled]	[1, BAS Control] [2, Local Control] [3, BAS Default] [4, Not Controlled] [5, Space Comfort Not in Control]
MV-61	Space Temperature Setpoint Source Status	Indicates the source of Space Temperature setpoint	Unit Controls = Space Control or SZ AV	Read	[4, Not Controlled]	[1, BAS] [2, Local] [3, Default] [4, Not Controlled]
MV-62	Space Temperature Source Status	Indicates the source of Space Temperaure	Unit Controls = Space Control or SZ AV	Read	[4, Not Controlled]	[1, BAS] [2, Local] [3, Default] [4, Not Controlled]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-70	Compressor 1 Mode	Indicates Compressor 1 current control mode	All Units	Read	[1, Off]	[1, Off] [2, Starting] [3, Running] [4, Diag: Safety Circuit Alarm] [5, Diag: Low Superheat] [6, Diag: Suction Press Sensor Failure] [7, Diag: Suction Temp Sensor Failure] [8, Diag: Frostat Aarm] [9, Diag: Discharge Press Sensor Failure] [10, Diag: High Pressure Cutout Alarm] [11, VFD Fault/Comp Fault] [12, Diag: High Superheat] [13, Warn: Cond Limit Active] [14, Comp Locked Out] [15, Warn: Frostat Limit Active] [16, Running Unloaded]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-71	Compressor 2 Mode	Indicates Compressor 2 current control mode	Units equipped with 2 or more Compressors	Read	[1, Off]	[1, Off] [2, Starting] [3, Running] [4, Diag: Safety Circuit Alarm] [5, Diag: Low Superheat] [6, Diag: Suction Press Sensor Failure] [7, Diag: Suction Temp Sensor Failure] [8, Diag: Frostat Aarm] [9, Diag: Discharge Press Sensor Failure] [10, Diag: High Pressure Cutout Alarm] [11, VFD Fault/Comp Fault] [12, Diag: High Superheat] [13, Warn: High Disc Press] [14, Comp Locked Out] [15, Warn: Frostat Warning]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-72	Compressor 3 Mode	Indicates Compressor 3 current control mode	Units equipped with 3 or more Compressors	Read	[1, Off]	[1, Off] [2, Starting] [3, Running] [4, Diag: Safety Circuit Alarm] [5, Diag: Low Superheat] [6, Diag: Suction Press Sensor Failure] [7, Diag: Suction Temp Sensor Failure] [8, Diag: Frostat Aarm] [9, Diag: Discharge Press Sensor Failure] [10, Diag: High Pressure Cutout Alarm] [11, VFD Fault/Comp Fault] [12, Diag: High Superheat] [13, Warn: High Disc Press] [14, Comp Locked Out] [15, Warn: Frostat Warning]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-73	Compressor 4 Mode	Indicates Compressor 4 current control mode	Units equipped with 4 or more Compressors	Read	[1, Off]	[1, Off] [2, Starting] [3, Running] [4, Diag: Safety Circuit Alarm] [5, Diag: Low Superheat] [6, Diag: Suction Press Sensor Failure] [7, Diag: Suction Temp Sensor Failure] [8, Diag: Frostat Aarm] [9, Diag: Discharge Press Sensor Failure] [10, Diag: High Pressure Cutout Alarm] [11, VFD Fault/Comp Fault] [12, Diag: High Superheat] [13, Warn: High Disc Press] [14, Comp Locked Out]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-74	Compressor 5 Mode	Indicates Compressor 5 current control mode	Units equipped with 5 or more Compressors	Read	[1, Off]	[1, Off] [2, Starting] [3, Running] [4, Diag: Safety Circuit Alarm] [5, Diag: Low Superheat] [6, Diag: Suct Press Sensor Failure] [7, Diag: Suction Temp Sensor Failure] [8, Diag: Frostat Alarm] [9, Diag: Discharge Press Sensor Faliure] [10, Diag: High Pressure Cutout Alarm] [11, VFD Fault/Comp Fault] [12, Diag: High Superheat] [13, Warn: Cond Limit Active] [14, Comp Locked Out] [15, Warn: Frostat Limit Active]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-76	Compressor 6A Mode	Indicates Compressor 6A current control mode	Units with Tandem Compressors	Read	[14, Comp Locked Out]	[1, Off] [2, Starting] [3, Running] [4, Diag: Safety Circuit Alarm] [5, Diag: Low Superheat] [6, Diag: Suction Press Sensor Failure] [7, Diag: Suction Temp Sensor Failure] [8, Diag: Frostat Aarm] [9, Diag: Discharge Press Sensor Failure] [10, Diag: High Pressure Cutout Alarm] [11, VFD Fault/Comp Fault] [12, Diag: High Superheat] [13, Warn: High Disc Press] [14, Comp Locked Out]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-77	Compressor 6B Mode	Indicates Compressor 6B current control mode	Units with Tandem Compressors	Read	[14, Comp Locked Out]	[1, Off] [2, Starting] [3, Running] [4, Diag: Safety Circuit Alarm] [5, Diag: Low Superheat] [6, Diag: Suction Press Sensor Failure] [7, Diag: Suction Temp Sensor Failure] [8, Diag: Frostat Aarm] [9, Diag: Discharge Press Sensor Failure] [10, Diag: High Pressure Cutout Alarm] [11, VFD Fault/Comp Fault] [12, Diag: High Superheat] [13, Warn: High Disc Press] [14, Comp Locked Out]
MV-79	Mechanical Cooling Stages Failed	Indicates the total ammount of current compressors that have failed	All Units	Read	[5, None Failed]	[1, 1 Comp Failed] [2, 2 Comp Failed] [3, 3 Comp Failed] [4, 4 Comp Failed] [5, None Failed]
MV-80	Mechanical Cooling Stages Active	Indicates the total ammount of current compressors that are actively operating	All Units	Read	[1, 0 Compressors]	[1, 0 Compressors] [2, 1 Compressor] [3, 2 Compressors] [4, 3 Compressors] [5, 4 Compressors]
MV-82	MSC Unit Discharge Air Control Strategy	Indicates active control strategy for discharge air temeprature control	All Units	Read	[1, Fixed DA Setpoint]	[1, Fixed DA Setpoint] [2, Return Air Reset] [3, Space Temp Reset]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-83	MSC Unit Status	Indicates the unit overall status	All Units	Read	[9, BAS Shutdown]	[1, Normal] [2, Unit Off] [3, Warning Present] [4, Alarm Present] [5, Exterior Stop] [6, Local Stop] [7, E-Stop] [8, BAS Fire] [9, BAS Shutdown]
MV-84	Compressor Configuration Requested	Indicates current compressor combination being requested by the algorithm	All Units	Read	[1, None]	[1, None] [2, 1VS] [3, 1VS/1Tandom] [4, 1VS/2Tandom] [5, 1VS/1FS] [6, 1VS/1FS/1Tandom] [7, 1VS/1FS/2Tandom] [8, 1VS/2FS] [9, 1VS/2FS/1Tandom] [10, 1VS/2FS/2Tandom] [11, 1VS/3FS] [12, 1VS/3FS/1Tandom] [13, 1VS/3FS/2Tandom] [14, 1VS/4FS] [15, 1VS/4FS/1Tandom] [16, 1VS/4FS/2Tandom]
MV-85	Water Side Economizer Mode Status	Indicates the status of water side economizer	Units equipped with Water side economizer option	Read	[6, Not Present]	[1, Disabled] [2, Sampling] [3, Enabled] [4, WSE and Mech] [5, WSE Locked Out] [6, Not Present]
MV-86	Ventilation Override Input Mode	Indicates requested ventilation mode	All Units	Read/ Write	[1, Inactive]	[1, Inactive] [2, Mode A Active] [3, Mode B Active] [4, Mode C Active] [5, Mode D Active] [6, Mode E Active]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-87	Ventilation Override Status	Indicates status of ventilation override mode	All Units	Read	[1, Inactive]	[1, Inactive] [2, Mode A Active] [3, Mode B Active] [4, Mode C Active] [5, Mode D Active] [6, Mode E Active]
MV-89	Supply Fans Installed	Indicates the number of Supply Fans on the unit	All Units	Read	[8, None]	[1, 1 Fan] [2, 2 Fans] [3, 3 Fans] [4, 4 Fans] [5, 5 Fans] [6, 6 Fans] [7, 7 Fans] [8, None]
MV-90	Supply Fans Failed	Indicates the total ammount of current compressors that have failed	All Units	Read	[7, None Failed]	[1, 1 Fan Failed] [2, 2 Fans Failed] [3, 3 Fans Failed] [4, 4 Fans Failed] [5, 5 Fans Failed] [6, 6 Fans Failed] [7, None Failed]
MV-92	Stages Requested	Indicates the number of mechanical cooling stages requested by the algorithm	All Units	Read	[1, All Off]	[1, All Off] [2, Stage 1] [3, Stage 2] [4, Stage 3] [5, Stage 4] [6, Stage 5] [7, Stage 6] [8, Stage 7] [9, Stage 8]
MV-100	Unit Information	Internal unit information value	All Units	Read	1	State 1>
MV-170	Supply Fan 1 Mode	Indicates Supply Fan 1 current control mode	All Units	Read	[1, Off]	[1, Off] [2, Start] [3, Run] [4, Alarm]
MV-171	Supply Fan 2 Mode	Indicates Supply Fan 2 current control mode	All Units	Read	[1, Off]	[1, Off] [2, Start] [3, Run] [4, Alarm]
MV-172	Supply Fan 3 Mode	Indicates Supply Fan 3 current control mode	Units equipped with 3 or more Supply Fans	Read	[1, Off]	[1, Off] [2, Start] [3, Run] [4, Alarm]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-173	Supply Fan 4 Mode	Indicates Supply Fan 4 current control mode	Units equipped with 4 or more Supply Fans	Read	[1, Off]	[1, Off] [2, Start] [3, Run] [4, Alarm]
MV-174	Supply Fan 5 Mode	Indicates Supply Fan 5 current control mode	Units equipped with 5 or more Supply Fans	Read	[1, Off]	[1, Off] [2, Start] [3, Run] [4, Alarm]
MV-175	Supply Fan 6 Mode	Indicates Supply Fan 6 current control mode	Units equipped with 6 Supply Fans	Read	[1, Off]	[1, Off] [2, Start] [3, Run] [4, Alarm]
MV-201	MSC Testing Override	MSC Testing Override	All Units	Read/ Write	[1, Test Inactive]	[1, Test Inactive] [2, Start Test] [3, SF Cmd 1 On] [4, SFCmd 2 On] [5, Fan 1 On 30%] [6, Fan 1 Off] [7, Fan 2 On 30%] [8, Fan 2 Off] [9, Fan 3 On 30%] [10, Fan 3 Off] [11, Fan 4 On 30%] [12, Fan 4 Off] [13, Fan 5 On 30%] [14, Fan 5 Off] [15, Fan 6 On 30%] [16, Fan 6 Off] [17, Fan 7 On 30%] [18, Fan 7 Off] [19, All Fans On 25%] [20, All Fans On 50%] [21, All Fans Auto] [22, Cooling Test Start] [23, Heating Test Start] [24, Economizer Test Start] [25, Test Disable/Auto Release]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-202	MSC Testing Status	MSC Testing Status	All Units	Read	[1, Test Inactive]	[1, Test Inactive] [2, Test Starting] [3, Test Ready] [4, Test Running] [5, Fan Contactor 1 On] [6, Fan Contactor 2 On] [7, Fan 1 On 30%] [8, Fan 1 Off] [9, Fan 2 On 30%] [10, Fan 2 Off] [11, Fan 3 On 30%] [12, Fan 3 Off] [13, Fan 4 30%] [14, Fan 4 Off] [15, Fan 5 30%] [16, Fan 5 Off] [17, Fan 6 30%] [18, Fan 6 Off] [19, Fan 7 On 30%] [20, Fan 7 Off] [21, All fans 25%] [22, All fans 50%] [23, All Fan Auto] [24, Cooling Test Active] [25, Heating Test Active] [26, Econ Test Active] [27, Test Fail/Check Diag] [28, Cool Test Fail/Check Diag] [29, Heat Test Fail/Check Diag] [30, Test Stoppped/No Fan Stat]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-203	MSC Current Testing Override	MSC Current Testing Override	All Units	Read/ Write	[1, Test Inactive]	[1, Test Inactive] [2, Start Test] [3, SF Cmd 1 On] [4, SFCmd 2 On] [5, Fan 1 On 30%] [6, Fan 1 Off] [7, Fan 2 On 30%] [8, Fan 2 Off] [9, Fan 3 On 30%] [10, Fan 3 Off] [11, Fan 4 On 30%] [12, Fan 4 Off] [13, Fan 5 On 30%] [14, Fan 5 Off] [15, Fan 6 On 30%] [16, Fan 6 Off] [17, Fan 7 On 30%] [18, Fan 7 Off] [19, All Fans On 25%] [20, All Fans On 50%] [21, All Fans Auto] [22, Cooling Test Start] [23, Heating Test Start] [24, Test Disable/Auto Release]
MV-204	MSC Cooling Test Override	MSC Cooling Test Override	All Units	Read/ Write	[1, Test Inactive]	[1, Test Inactive] [2, All Comp Off] [3, Comp 1 On] [4, Comp 2 On] [5, Comp 3 On] [6, Comp 4 On] [7, Test Complete/Auto Release]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-205	MSC Cooling Test Status	MSC Cooling Test Status	All Units	Read	[1, Test Inactive]	[1, Test Inactive] [2, Test Starting] [3, Test Ready] [4, Test Running] [5, No Fan Status] [6, Test Fail/Check Diag] [7, Comp 1 Start] [8, Comp 1 On] [9, Comp 1 Fail] [10, Comp 2 Start] [11, Comp 2 On] [12, Comp 2 Fail] [13, Comp 3 Start] [14, Comp 3 On] [15, Comp 3 Fail] [16, Comp 4 Start] [17, Comp 4 On] [18, Comp 4 Fail] [19, Comp 5 Start] [20, Comp 5 On] [21, Comp 5 Fail] [22, Comp 6A Start] [23, Comp 6A On] [24, Comp 6A Fail] [25, Comp 6B Start] [26, Comp 6B On] [27, Comp 6B Fail] [28, Circ 6 Start] [29, Circ 6 On] [30, Circ 6 Fai] [31, Test Done/Auto Release]
MV-208	MSC Economizer Test Override	MSC Economizer Test Override	Units equipped with Airside Economizer	Read/ Write	[1, Test Inactive]	[1, Test Inactive] [2, Start Test] [3, Open Economizer] [4, Close Economizer] [5, Test Complete/Auto Release]

Object Identifier	Object Name	Description	Configuration Dependency	Read/ Write	Relinquish Default	Object States
MV-209	MSC Economizer Test Status	MSC Economizer Test Status	Units equipped with Airside Economizer	Read	[11, Test Done/Auto Release]	[1, Test Inactive] [2, Test Starting] [3, Test Ready] [4, Test Running] [5, No Fan Status] [6, Test Fail/Check Diag] [7, Econ Open Cmd] [8, Econ Calc Open] [9, Econ Close Cmd] [10, Econ Calc Closed] [11, Test Done/Auto Release]