



## 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.*

**Symbio™ 500 Integration Point List**  
**BACnet®**  
Commercial Self-Contained (SWUD\*)

Date:09/26/2025  
Firmware Release:V1.X  
Reference Document: BAS-SVP087\*-EN



| 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-62             | Primary Filter Differential Pressure Local      | Indicates the pressure drop across the filter bank                                            | All Units                                                     | Read       | in(H2O) | -0.25     | 2.5        |
| AI-250            | Discharge Gauge Pressure Circuit 1              | Indicates Compressor 1 discharge pressure value from a sensor wired to the controller         | All Units                                                     | Read       | psi     | 0         | 750        |
| AI-251            | Suction Gauge Pressure Circuit 1                | Indicates Compressor 1 suction pressure                                                       | All Units                                                     | Read       | psi     | 0         | 750        |
| AI-252            | Suction Temperature Circuit 1                   | Indicates Compressor 1 suction temperature value from a sensor wired to the controller        | All Units                                                     | Read       | °F      | -58       | 422        |
| AI-255            | Discharge Gauge Pressure Circuit 2              | Indicates Compressor 2 discharge pressure                                                     | Units equipped with 2 or more Compressors                     | Read       | psi     | 0         | 750        |
| AI-256            | Suction Gauge Pressure Circuit 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-257            | Suction Temperature Circuit 2                   | Indicates Compressor 2 suction temperature                                                    | Units equipped with 2 or more Compressors                     | Read       | °F      | -58       | 422        |
| AI-280            | Refrigerant LFL Concentration Sensor Compressor | Indicates the concentration level of refrigerant in the compressor section                    | Units with Analog A2L Sensors                                 | Read       | % LFL   | 0         | 11         |
| AI-281            | Refrigerant LFL Concentration Sensor Evaporator | Indicates the concentration level of refrigerant in the evaporator section                    | Units with Analog A2L Sensors                                 | Read       | % LFL   | 0         | 11         |

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|-------------------|----------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------|-------|------------|-----------|------------|---------------------|
| 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-81             | Condenser Water Regulating Valve | Indicates the command used (%) to control the condenser regulating valve command | All Units equipped with Head Pressure Control Valves | %     | Read       | 0         | 100        | 0                   |
| AO-86             | Heating Output 1 Command         | Indicates the demand requested for the electric modulating heat                  | Units equipped with Auxiliary Heat                   | %     | 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-102            | Supply Fan 7 Speed Command       | Indicates the speed command (%) used to control Supply Fan 7                     | Units equipped with 7 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                   |

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| 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 Temperature                                   | 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 freeze/STAT 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                   |

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| 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             | 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-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-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                   |
| 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                   |

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|-------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------|--------------------|------------|-----------|------------|---------------------|
| 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-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                   |
| 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-314            | Run Time - Compressor 1 (Hours)             | Compressor 1 Runtime                                                                                        | All Units                                                     |       | 0                  | Read       | 0         | 10000000   | 0                   |
| AV-315            | Compressor 1 Sequence Number                | Defines the order the compressor will be run in                                                             | All Units                                                     |       | 1                  | Read       | 1         | 10         | 0                   |

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|-------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|--------------------|------------|-----------|------------|---------------------|
| AV-327            | Run Time - Compressor 2 (Hours)              | Compressor 2 Runtime                                                                                                              | Units equipped with 2 or more Compressors       |         | 0                  | Read       | 0         | 10000000   | 0                   |
| AV-328            | Compressor 2 Sequence Number                 | Defines the order the compressor will be run in                                                                                   | All Units                                       |         | 2                  | Read       | 1         | 10         | 0                   |
| AV-341            | Run Time - Compressor 3 (Hours)              | Compressor 3 Runtime                                                                                                              | Units equipped with 3 or more Compressors       |         | 0                  | Read       | 0         | 10000000   | 0                   |
| AV-342            | Compressor 3 Sequence Number                 | Defines the order the compressor will be run in                                                                                   | All Units                                       |         | 3                  | Read       | 1         | 10         | 0                   |
| AV-355            | Run Time - Compressor 4 (Hours)              | Compressor 4 Runtime                                                                                                              | Units equipped with 4 or more Compressors       |         | 0                  | Read       | 0         | 10000000   | 0                   |
| AV-356            | Compressor 4 Sequence Number                 | Defines the order the compressor will be run in                                                                                   | All Units                                       |         | 4                  | Read       | 1         | 10         | 0                   |
| AV-360            | Compressor Interstage Delay                  | Time in minutes between compressor stages to be added or subtracted                                                               | All Units                                       |         | 5                  | Write      | 3         | 10         | 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            | Frost 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                   |
| AV-374            | 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-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-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                   |

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| Object Identifier | Object Name                                             | Description                                                                                                             | Configuration Dependency                                      | Units   | Relinquish Default | Read/Write | Low Limit | High Limit | Heartbeat (seconds) |
|-------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------|--------------------|------------|-----------|------------|---------------------|
| 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                   |
| 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-850            | Differential Refrigerant Pressure Circuit 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-851            | Suction Saturated Refrigerant Temperature Circuit 1     | Indicates the condenser suction saturated refrigerant temperature for Compressor 1                                      | All Units                                                     | °F      | 0                  | Read       | -58       | 482        | 0                   |
| AV-852            | Superheat Temperature Circuit 1                         | Indicates the Superheat Temperature for Compressor 1                                                                    | All Units                                                     | °F      | 0                  | Read       | -58       | 482        | 0                   |
| AV-853            | Evaporator Approach Temperature Circuit 1               | Indicates the evaporator approach temperature for Compressor 1                                                          | All Units                                                     | °F      | 0                  | Read       | -58       | 482        | 0                   |
| AV-854            | Froststat Trips Today Circuit 1                         | Indicates the total number of froststat trips for Compressor 1. Counter resets every day.                               | All Units                                                     |         | 0                  | Read       | -1000     | 1000000    | 0                   |
| AV-855            | Max Stages Allowed Circuit 1                            | Indicates the maximum compressors allowed to run on the circuit.                                                        | All Units                                                     |         | 0                  | Read       | 0         | 3          | 0                   |
| AV-856            | Condenser Approach Temperature Circuit 1                | Indicates the condenser approach temperature for Compressor 1                                                           | All Units                                                     | Δ °F    | 0                  | Read       | -10       | 40         | 0                   |
| AV-857            | Discharge Saturated Refrigerant Temperature Circuit 1   | Indicates the condenser Saturated Refrigerant Temperature for Compressor 1                                              | All Units                                                     | °F      | 0                  | Read       | -58       | 482        | 0                   |
| AV-861            | Differential Refrigerant Pressure Circuit 2             | Indicates the differential pressure between condenser discharge and suction pressures for Compressor 2                  | All Units                                                     | psi     | 0                  | Read       | -500.63   | 500.63     | 0                   |
| AV-862            | Suction Saturated Refrigerant Temperature Circuit 2     | Indicates the condenser suction saturated refrigerant temperature for Compressor 2                                      | All Units                                                     | °F      | 0                  | Read       | -58       | 482        | 0                   |
| AV-863            | Superheat Temperature Circuit 2                         | Indicates the Superheat Temperature for Compressor 2                                                                    | All Units                                                     | °F      | 0                  | Read       | -58       | 482        | 0                   |
| AV-864            | Evaporator Approach Temperature Circuit 2               | Indicates the evaporator approach temperature for Compressor 2                                                          | All Units                                                     | °F      | 0                  | Read       | -58       | 482        | 0                   |
| AV-865            | Froststat Trips Today Circuit 2                         | Indicates the total number of froststat trips for Compressor 2. Counter resets every day.                               | All Units                                                     |         | 0                  | Read       | -1000     | 1000000    | 0                   |

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| Object Identifier | Object Name                                           | Description                                                                                       | Configuration Dependency           | Units | Relinquish Default | Read/Write | Low Limit | High Limit | Heartbeat (seconds) |
|-------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------|-------|--------------------|------------|-----------|------------|---------------------|
| AV-866            | Max Stages Allowed Circuit 2                          | Indicates the maximum compressors allowed to run on the circuit.                                  | All Units                          |       | 0                  | Read       | 0         | 3          | 0                   |
| AV-867            | Condenser Approach Temperature Circuit 2              | Indicates the condenser approach temperature for Compressor 2                                     | All Units                          | Δ °F  | 0                  | Read       | -10       | 40         | 0                   |
| AV-868            | Discharge Saturated Refrigerant Temperature Circuit 2 | Indicates the condenser Saturated Refrigerant Temperature for Compressor 1                        | All Units                          | °F    | 0                  | Read       | -58       | 482        | 0                   |
| AV-894            | Testing Run Time (Min)                                | Sets the test step time duration (minutes)                                                        | All Units                          |       | 0                  | Read       | -1000     | 1000       | 0                   |
| AV-895            | Testing Time Remaining (Min)                          |                                                                                                   | All Units                          |       | 0                  | Read       | -1000     | 1000       | 0                   |
| AV-896            | Refrigerant LFL Concentration Alarm Threshold         | Alarm setpoint for the concentration of refrigerant                                               | Units with Analog A2L sensors      | % LFL | 10                 | Read       | 0         | 50         | 0                   |
| AV-897            | Refrigerant LFL Concentration Warning Threshold       | Warning setpoint for the concentration of refrigerant                                             | Units with Analog A2L Sensors      | % LFL | 5                  | Read       | 5         | 20         | 0                   |
| AV-898            | Condenser Design Leaving Water Temperature            | Design value used condenser leaving water temperature                                             | All Units                          | °F    | 95                 | Read       | -58       | 482        | 0                   |
| AV-899            | Condenser Design Entering Water Temperature           | Design value used condenser entering water temperature                                            | All Units                          | °F    | 85                 | Read       | -58       | 482        | 0                   |
| AV-900            | Condenser Water Design Delta Temperature              | Design value of condenser water delta temperature                                                 | All Units                          | Δ °F  | 10                 | Read       | -10       | 50         | 0                   |
| AV-901            | Evaporator Coil Delta Temperature                     | Calculation difference between the entering unit temp sensor and discharge air temperature sensor | Units with cooling coils           | Δ °F  | 10                 | Read       | 0         | 18         | 1                   |
| AV-902            | 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-903            | Condenser Water Min Valve Setpoint                    | Factory set valve for the minimum valve is allowed to close when the compressors are running      | Units with Water Regulating Valves | %     | 90                 | Read       | 70        | 100        | 1                   |
| AV-904            | Condenser Water Max Valve Setpoint                    | Factory set valve for the maximum valve is allowed to open when the compressors are running       | Units with Water Regulating Valves | %     | 30                 | Read       | 20        | 40         | 1                   |
| AV-905            | Condenser Min Valve Setpt Local                       | User set valve for the minimum valve is allowed to close when the compressors are running         | Units with Water Regulating Valves | %     | 30                 | Write      | 30        | 50         | 1                   |
| AV-906            | Condenser Water Min Valve Setpt Active                | The Active setpoint used for how much the valve can close when compressors are in operation       | Units with Water Regulating Valves | %     | 30                 | Read       | 30        | 50         | 1                   |
|                   |                                                       |                                                                                                   |                                    |       |                    |            |           |            |                     |

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| 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<br>true = Alarm        | Normal   |
| BI-9              | Emergency Stop MSC                                 | Emergency Stop command                                               | All Units                                     | Read       | false = Stopped<br>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<br>true = Auto           | Normal   |
| BI-29             | Occupancy Input                                    | Indicates the status of the wired occupancy input                    | All Units                                     | Read       | false = Occupied<br>true = Unoccupied | Normal   |
| BI-35             | Phase Monitor Status                               | Status of local Phase Monitor Input                                  | All Units                                     | Read       | false = Tripped<br>true = Okay        | Normal   |
| BI-42             | Condenser Water Flow Switch                        | Indicates water flow proof in the condenser                          | All Units                                     | Read       | false = No Flow<br>true = Flow        | Normal   |
| BI-43             | Ventilation Relay Status                           | Indicates the ventilation mode needs to run                          | All Units                                     | Read       | false = Inactive<br>true = Active     | Normal   |
| BI-104            | Refrigerant Leak Detection System Input Compressor | Indicates the A2L sensor input in the condenser section              | Units with Binary A2L Sensors                 | Read       | false = Alarm<br>true = Normal        | Normal   |
| BI-105            | Refrigerant Leak Detection System Input Evaporator | Indicates the A2L sensor input in the evaporator section             | Units with Binary A2L Sensors                 | Read       | false = Alarm<br>true = Normal        | Normal   |
| BI-106            | Safety Circuit Status Compressor 1                 | Indicates the status of the safety circuit for Compressor 1          | All Units                                     | Read       | false = Open<br>true = Closed         | 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<br>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<br>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<br>true = Closed         | Normal   |
| BI-130            | High Pressure Cutout Circuit 1                     | Indicates status of High Pressure cutout safety device for Circuit 1 | All Units                                     | Read       | false = Alarm<br>true = Normal        | Normal   |
| BI-131            | High Pressure Cutout Circuit 2                     | Indicates status of High Pressure cutout safety device for Circuit 2 | All Units                                     | Read       | false = Alarm<br>true = Normal        | Normal   |
| BI-137            | ECM Fault Supply Fan 1                             | Indicates the Fault status for Supply Fan 1                          | All Units                                     | Read       | false = Alarm<br>true = Normal        | Normal   |
| BI-138            | ECM Fault Supply Fan 2                             | Indicates the Fault status for Supply Fan 2                          | Units equipped with 2 or more Supply Fans     | Read       | false = Alarm<br>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<br>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<br>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<br>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<br>true = Normal        | Normal   |
| BI-143            | ECM Fault Supply Fan 7                             | Indicates the Fault status for Supply Fan 7                          | Units equipped with 7 Supply Fans             | Read       | false = Alarm<br>true = Normal        | Normal   |

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| 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<br>true = On               |
| BO-11             | Compressor 1 Command            | Indicates the Compressor 1 Start/Stop Command   | All Units                                 | Read       | Normal             | false = Normal<br>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<br>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<br>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<br>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<br>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<br>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<br>true = On               |
| BO-44             | Refrigerant Mitigation Push     | Indicates the unit is in Refrigerant Mitigation | All Units                                 | Read       | Normal             | false = Normal<br>true = Alarm         |
| BO-101            | Supply Fan Start Stop Command 2 | Indicates fans 5-7 are being commanded on       | Units with 5 or more Supply Fans          | Read       | Off                | false = Off<br>true = On               |
| BO-111            | Supply Fan Status Output        | Output indicating the Supply Fan has status.    | All Units                                 | Read       | Off                | false = Off<br>true = On               |
| BO-125            | Cooling Tower Pump Request      | Output to request Cooling Tower Pump operation  | All Units                                 | Read       | Off                | false = Off<br>true = On               |
| BO-126            | Unit Alarm Output Command       | Unit level alarm output                         | All Units                                 | Read       | Normal             | false = Normal<br>true = Alarm Present |

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|-------------------|------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------|------------|--------------------|-------------------------------------------------|
| BV-2              | Supply Fan Failure Reset                             | Used to reset Supply fan failure                                   | All Units                                                     | Write      | Normal             | false = Normal<br>true = Reset                  |
| 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<br>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<br>true = Fail                   |
| BV-13             | Diagnostic: Outdoor Air Temperature Source Failure   | Diagnostic: Outdoor Air Temperature Source Failure                 | Units equipped with Airside Economizer                        | Read       | Normal             | false = Normal<br>true = In Alarm               |
| 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<br>true = In Alarm               |
| BV-15             | Diagnostic: Duct Static Pressure Failure             | Diagnostic: Duct Static Pressure Failure                           | VAV units only                                                | Read       | Normal             | false = Normal<br>true = Fail                   |
| BV-18             | Cooling Safeties OK                                  | Indicates that cooling permissive safeties status                  | All Units                                                     | Read       | Yes                | false = No<br>true = Yes                        |
| BV-21             | Heat Cool Mode Active                                | Indicates unit active mode                                         | All Units                                                     | Read       | Heat               | false = Heat<br>true = Cool                     |
| BV-22             | Night Heat Cool                                      | Indicates status of Unoccupied Heat/Cool operation                 | All Units                                                     | Read       | Off                | false = Off<br>true = On                        |
| BV-29             | Compressor 1 Lockout BAS                             | Used to lockout Compressor 1                                       | All Units                                                     | Write      | Available          | false = Available<br>true = Locked Out          |
| BV-30             | Compressor 2 Lockout BAS                             | Used to lockout Compressor 2                                       | Units equipped with 2 or more Compressors                     | Write      | Available          | false = Available<br>true = Locked Out          |
| BV-31             | Compressor 3 Lockout BAS                             | Used to lockout Compressor 3                                       | Units equipped with 3 or more Compressors                     | Write      | Available          | false = Available<br>true = Locked Out          |
| BV-32             | Compressor 4 Lockout BAS                             | Used to lockout Compressor 4                                       | Units equipped with 4 or more Compressors                     | Write      | Available          | false = Available<br>true = Locked Out          |
| BV-35             | Circuit 2 Enable Status                              | Indicates when Circuit 2 is enabled                                | Units with 3 or more compressors                              | Read       | Enable             | False = Disable<br>True = Enable                |
| BV-36             | Alarm Reset                                          | Used to reset unit latching alarms                                 | Units equipped with 5 or more Compressors                     | Write      | Normal             | false = Normal<br>true = Reset                  |
| BV-37             | Diagnostic: Auto Reset                               | Diagnostic: Auto Reset                                             | All Units                                                     | Read       | Normal             | false = Normal<br>true = In Alarm               |
| BV-41             | Diagnostic: Discharge Air High Temperature Lockout   | Diagnostic: Discharge Air High Temperature Lockout                 | All Units                                                     | Read       | Normal             | false = Normal<br>true = In Alarm               |
| BV-42             | Diagnostic: Discharge Air Temperature Source Failure | Diagnostic: Discharge Air Temperature Source Failure               | All Units                                                     | Read       | Normal             | false = Normal<br>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<br>true = Reset Locked Out |
| BV-52             | Mixed Air Low Limit Active                           | Indicates when mixed air low limit temperature safety is active    | All Units                                                     | Read       | Off                | false = Off<br>true = On                        |
| BV-62             | Fan Latch                                            | Internal point used to latch supply fan operation                  | All Units                                                     | Read       | Off                | false = Off<br>true = On                        |
| BV-63             | Startup Delay Completed                              | Indicates when delay startup is completed to allow cooling/heating | All Units                                                     | Read       | No                 | false = No<br>true = Yes                        |
| 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<br>true = Yes                        |

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| Object Identifier | Object Name                                         | Description                                                                                  | Configuration Dependency                                      | Read/Write | Relinquish Default | Object States                         |
|-------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------|--------------------|---------------------------------------|
| BV-65             | Fan Safeties OK                                     | Indicates fan safeties status                                                                | All Units                                                     | Read       | Yes                | false = No<br>true = Yes              |
| BV-69             | Circuit 1 Enable Status                             | Indicates when Circuit 1 is enabled                                                          | Units with 1 or more compressors                              | Read       | Enable             | False = Disable<br>True = Enable      |
| BV-70             | Diagnostic: Condenser Water Low Temperature Lockout | Diagnostic: Condenser Water Low Temperature Lockout                                          | All Units                                                     | Read       | Normal             | false = Normal<br>true = In Alarm     |
| BV-75             | Economizer Interlock OK                             | Indicates the economizer is unable to keep up and needs mechanical cooling                   | All Units                                                     | Read       | Yes                | false = No<br>true = Yes              |
| BV-76             | Active CoolCoil Control Sensor Failed               | Indicates if the sensor used to control Cooling Coil has failed                              | All Units                                                     | Read       | No                 | false = No<br>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<br>true = Yes              |
| 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<br>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<br>true = Locked Out |
| BV-80             | Heating Lockout BAS                                 | Used to lockout Heating                                                                      | Units equipped with Auxiliary Heat                            | Write      | Inactive           | false = Inactive<br>true = Locked Out |
| BV-81             | Diagnostic: Humidity Control Sensor Failure         | Diagnostic: Humidity Control Sensor Failure                                                  | Units equipped with Airside Economizer w/comparative enthalpy | Read       | Normal             | false = Normal<br>true = Fail         |
| BV-108            | Diagnostic: Discharge Air Low Temperature Lockout   | Diagnostic: Discharge Air Low Temperature Lockout                                            | All Units                                                     | Read       | Normal             | false = Normal<br>true = In Alarm     |
| BV-182            | Economizer Include Outdoor Air Temp Limit           | Enables the use of the Economizer Outdoor Air Enable Setpoint BAS in the economizer decision | Units equipped with Airside Economizer                        | Write      | No                 | false = No<br>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<br>true = Active     |
| BV-190            | Compressor 1 Calculated Status                      | Indicates Compressor 1 status                                                                | All Units                                                     | Read       | Off                | false = Off<br>true = On              |
| BV-191            | Compressor 1 Call                                   | Indicates Compressor 1 call from Test routine                                                | All Units                                                     | Read       | Stop               | false = Stop<br>true = Run            |
| BV-196            | Compressor 1 Run Time Reset                         | Compressor 1 Runtime Reset                                                                   | All Units                                                     | Write      | Normal             | false = Normal<br>true = Reset        |
| BV-197            | Compressor 1 Safety Lockout                         | Indicates status of safety lockout of Compressor 1                                           | All Units                                                     | Read       | Off                | false = Off<br>true = On              |
| BV-200            | Compressor 2 Calculated Status                      | Indicates Compressor 2 status                                                                | Units equipped with 2 or more Compressors                     | Read       | Off                | false = Off<br>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<br>true = Run            |
| BV-206            | Compressor 2 Run Time Reset                         | Compressor 2 Runtime Reset                                                                   | Units equipped with 2 or more Compressors                     | Write      | Normal             | false = Normal<br>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<br>true = On              |
| BV-210            | Compressor 3 Calculated Status                      | Indicates Compressor 3 status                                                                | Units equipped with 3 or more Compressors                     | Read       | Off                | false = Off<br>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<br>true = Run            |

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| Object Identifier | Object Name                                       | Description                                                                           | Configuration Dependency                               | Read/Write | Relinquish Default | Object States                                 |
|-------------------|---------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------|------------|--------------------|-----------------------------------------------|
| BV-216            | Compressor 3 Run Time Reset                       | Compressor 3 Runtime Reset                                                            | Units equipped with 3 or more Compressors              | Write      | Normal             | false = Normal<br>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<br>true = On                      |
| BV-220            | Compressor 4 Calculated Status                    | Indicates Compressor 4 status                                                         | Units equipped with 4 or more Compressors              | Read       | Off                | false = Off<br>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<br>true = Run                    |
| BV-226            | Compressor 4 Run Time Reset                       | Compressor 4 Runtime Reset                                                            | Units equipped with 4 or more Compressors              | Write      | Normal             | false = Normal<br>true = Reset                |
| 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<br>true = On                      |
| BV-250            | Compressor Cond Valve Installed                   | Indicates if Condenser Valves are installed or not                                    | All Units                                              | Read/Write | Not Installed      | false = Not Installed<br>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<br>true = Constant Flow |
| BV-255            | Water Side Economizer Lockout BAS                 | Used to lockout Waterside Economizer                                                  | Units equipped with Waterside economizer option        | Write      | Available          | false = Available<br>true = Locked Out        |
| BV-257            | Water Side Econ Purge Status                      | Indicates Waterside Economizer Purge Status                                           | Units equipped with Waterside economizer option        | Read/Write | Off                | false = Off<br>true = Active Purge            |
| BV-265            | Diagnostic: Compressor 1 Safety Circuit Alarm     | Diagnostic: Compressor 1 Safety Circuit Alarm                                         | All Units                                              | Read       | Normal             | false = Normal<br>true = Failure              |
| 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<br>true = Failure              |
| 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<br>true = Failure              |
| 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<br>true = Failure              |
| BV-321            | Diagnostic: Software High Duct Static Alarm       | Diagnostic: Software High Duct Static Alarm                                           | VAV units only                                         | Read       | Normal             | false = Normal<br>true = In Alarm             |
| BV-322            | Diagnostic: Condenser Water Flow Loss             | Diagnostic: Condenser Water Flow Loss                                                 | All Units                                              | Read       | Normal             | false = Normal<br>true = Flow Loss            |
| BV-326            | Fixed Speed Compressor Rotate BAS                 | User point to force rotate the compressor sequence                                    | All Units                                              | Read/Write | Normal             | false = Normal<br>true = Rotate               |
| BV-327            | Fixed Speed Compressor Rotate Schedule= BAS/Local | User selection to use a schedule or local onboard weekly switching of lead compressor | All Units                                              | Read/Write | Normal             | false = Local<br>true = BAS                   |
| BV-329            | Front Panel Auto Stop                             | Front Panel Auto Stop                                                                 | All Units                                              | Write      | Stop               | false = Stop<br>true = Auto                   |
| BV-330            | Supply Fan 1 Calculated Status                    | Indicates supply Fan 1 calculated status                                              | All Units                                              | Read       | Running            | false = Off<br>true = Running                 |
| BV-331            | Supply Fan 1 Failure                              | Indicates supply Fan 1 failure status                                                 | All Units                                              | Read       | Failed             | false = Normal<br>true = Failed               |
| BV-335            | Supply Fan 2 Calculated Status                    | Indicates supply Fan 2 calculated status                                              | Units equipped with 2 or more Supply Fans              | Read       | Running            | false = Off<br>true = Running                 |
| BV-336            | Supply Fan 2 Failure                              | Indicates supply Fan 2 failure status                                                 | Units equipped with 2 or more Supply Fans              | Read       | Failed             | false = Normal<br>true = Failed               |

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| Object Identifier | Object Name                                                 | Description                                                              | Configuration Dependency                  | Read/Write | Relinquish Default | Object States                                   |
|-------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------|------------|--------------------|-------------------------------------------------|
| 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<br>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<br>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<br>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<br>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<br>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<br>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<br>true = Running                   |
| BV-356            | Supply Fan 6 Failure                                        | Indicates supply Fan 6 failure status                                    | Units equipped with 6 Supply Fans         | Read       | Failed             | false = Normal<br>true = Failed                 |
| BV-360            | Supply Fan Calculated Status                                | Indicates if any Supply Fan is running                                   | All Units                                 | Read       | Off                | false = Off<br>true = Running                   |
| BV-363            | Warning: High Condenser Water Delta Temperature             | Warning: High Condenser Water Delta Temperature                          | All Units                                 | Read       | Normal             | false = Normal<br>true = Warning Active         |
| BV-364            | Warning: High Condenser Water Entering Temperature          | Warning: High Condenser Water Entering Temperature                       | All Units                                 | Read       | Normal             | false = Normal<br>true = Warning Active         |
| BV-388            | Diagnostic Dirty Primary Filter                             | Resets the primary air filter alarm                                      | All Units                                 | Read       | Normal             | false = Normal<br>true = Dirty                  |
| BV-556            | Refrigerant Mitigation Active                               | Active when the Controller is in a mitigation state for any reason       | All Units                                 | Read       | Normal             | false = Normal<br>true = Alarm                  |
| BV-558            | Diagnostic: Refrigerant LVL Concentration Sensor Compressor | indicates when the A2L concentration sensor has failed                   | All Units                                 | Read       | Normal             | false = Normal<br>true = Alarm                  |
| BV-559            | Diagnostic: Refrigerant LVL Concentration Sensor Evaporator | indicates when the A2L concentration sensor has failed                   | All Units                                 | Read       | Normal             | false = Normal<br>true = Alarm                  |
| 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<br>true = Factory Startup |
| BV-600            | Circuit 1 Failure Reset                                     | Used to reset Circuit 1 latching failure alarm                           | Units with 1 or more compressors          | Read       | Off                | false = Off<br>true = On                        |
| BV-601            | Circuit 2 Failure Reset                                     | Used to reset Circuit 2 latching failure alarm                           | Units with 3 or more compressors          | Read       | Off                | false = Off<br>true = On                        |
| BV-605            | Reset Dirty Air filter                                      | Used to reset the dirty air filter alarm                                 | All Units                                 | Read/Write | Off                | false = Off<br>true = Reset                     |
| BV-606            | Circuit 1 Safety Lockout                                    | Indicates a safety lockout has occurred on circuit 1                     | Units with 1 or more compressors          | Read       | Normal             | false = Normal<br>true = Failure                |
| BV-607            | Circuit 2 Safety Lockout                                    | Indicates a safety lockout has occurred on circuit 2                     | Units with 3 or more compressors          | Read       | Normal             | false = Normal<br>true = Failure                |
| BV-610            | Diagnostic: Circuit 1 Discharge Pressure Sensor Failure     | Indicates the discharge pressure sensor has failed on circuit 1          | All Units                                 | Read       | Normal             | false = Normal<br>true = Alarm                  |
| BV-611            | Diagnostic: Circuit 1 High Pressure Shutdown                | Indicates the high pressure switch has opened on compressor 1            | All Units                                 | Read       | Normal             | false = Normal<br>true = In Alarm               |

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| Object Identifier | Object Name                                              | Description                                                                     | Configuration Dependency               | Read/Write | Relinquish Default | Object States                             |
|-------------------|----------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------|------------|--------------------|-------------------------------------------|
| BV-612            | Diagnostic: Circuit 1 High Superheat                     | Indicates the unit has calculated a high superheat condition on compressor 1    | All Units                              | Read       | Normal             | false = Normal<br>true = In Alarm         |
| BV-613            | Diagnostic: Circuit 1 Low Superheat                      | Indicates the unit has calculated a low superheat condition on compressor 1     | All Units                              | Read       | Normal             | false = Normal<br>true = In Alarm         |
| BV-615            | Diagnostic: Circuit 1 Suction Pressure Sensor Failure    | Indicates the suction pressure sensor has failed on circuit 1                   | All Units                              | Read       | Normal             | false = Normal<br>true = In Failure       |
| BV-616            | Diagnostic: Circuit 1 Suction Temperature Sensor Failure | Indicates the suction temperature sensor has failed on circuit 1                | All Units                              | Read       | Normal             | false = Normal<br>true = In Failure       |
| BV-620            | Diagnostic: Circuit 2 Discharge Pressure Sensor Failure  | Indicates the discharge pressure sensor has failed on circuit 2                 | All Units                              | Read       | Normal             | false = Normal<br>true = Alarm            |
| BV-621            | Diagnostic: Circuit 2 High Pressure Shutdown             | Indicates the high pressure switch has opened on compressor 2                   | All Units                              | Read       | Normal             | false = Normal<br>true = In Alarm         |
| BV-622            | Diagnostic: Circuit 2 High Superheat                     | Indicates the unit has calculated a high superheat condition on compressor 2    | All Units                              | Read       | Normal             | false = Normal<br>true = In Alarm         |
| BV-623            | Diagnostic: Circuit 2 Low Superheat                      | Indicates the unit has calculated a low superheat condition on compressor 2     | All Units                              | Read       | Normal             | false = Normal<br>true = In Alarm         |
| BV-625            | Diagnostic: Circuit 2 Suction Pressure Sensor Failure    | Indicates the suction pressure sensor has failed on circuit 2                   | All Units                              | Read       | Normal             | false = Normal<br>true = In Failure       |
| BV-626            | Diagnostic: Circuit 2 Suction Temperature Sensor Failure | Indicates the suction temperature sensor has failed on circuit 2                | All Units                              | Read       | Normal             | false = Normal<br>true = In Failure       |
| BV-650            | Warning Circuit 1 Cond Limit Status                      | Indicates the condenser pressure is reaching the warning setpoint for circuit 1 | Units with 1 or more compressors       | Read       | Normal             | false = Normal<br>true = Limited Capacity |
| BV-652            | Warning: Circuit 1 Frost Warning                         | Indicates a frost condition exists on circuit 1                                 | Units with 1 or more compressors       | Read       | Normal             | false = Normal<br>true = Warning Active   |
| BV-656            | Warning: Circuit 2 Cond Limit Status                     | Indicates the condenser pressure is reaching the warning setpoint for circuit 2 | Units with 3 or more compressors       | Read       | Normal             | false = Normal<br>true = Limited Capacity |
| BV-658            | Warning: Circuit 2 Frost Warning                         | Indicates a frost condition exists on circuit 2                                 | Units with 3 or more compressors       | Read       | Normal             | false = Normal<br>true = Warning Active   |
| BV-664            | Warning: Refrigerant LVL Lower Level Threshold Active    | Indicates the refrigerant concentration is at the warning level                 | Units with analog sensors              | Read       | Normal             | false = Normal<br>true = Warning Active   |
| BV-665            | Compressor Condenser Valve Open                          | Indicates the compressor condenser valves open status                           | Units with condenser regulating valves | Read       | Open               | false = Closed<br>true = Open             |
| BV-666            | Compressor Condenser Purge Status                        | Indicates the purge status of the condenser                                     | Units with condenser regulating valves | Read/Write | Off                | false = Off<br>true = Active Purge        |
| 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<br>true = On                  |
| BV-690            | Supply Fan 7 Calculated Status                           | Indicates supply Fan 7 calculated status                                        | Units equipped with 7 Supply Fans      | Read       | Running            | false = Off<br>true = Running             |
| BV-691            | Supply Fan 7 Failure                                     | Indicates supply Fan 7 failure status                                           | Units equipped with 7 Supply Fans      | Read       | Failed             | false = Normal<br>true = Failed           |
| BV-730            | CSC Heat Placement                                       | Indicates if remote heat is installed in the unit                               | All Units                              | Read       | Not Remote         | false = Not Remote<br>true = Remote       |

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| 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]<br>[2, Unoccupied]<br>[3, Occupied Bypass]<br>[4, Occupied Standby]<br>[5, Auto]                                                                                                                                                                                             |
| MV-2              | Occupancy Status       | Indicates the active occupancy mode of the controller      | All Units                | Read       | [5, Auto]          | [1, Occupied]<br>[2, Unoccupied]<br>[3, Occupied Bypass]<br>[4, Occupied Standby]<br>[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]<br>[2, Heat]<br>[3, Morning Warm-up]<br>[4, Cool]<br>[5, Night Purge]<br>[6, Pre Cool]<br>[7, Off]<br>[8, Test]<br>[9, Emergency Heat]<br>[10, Fan Only]<br>[11, Free Cool]<br>[12, Ice-Making]<br>[13, Maximum Heat]<br>[14, Economizer]<br>[15, Dehumidify]<br>[16, Calibrate] |
| MV-4              | Heat Cool Mode Status  | Indicates the current heat cool mode of the controller     | All Units                | Read       | [1, Auto]          | [1, Auto]<br>[2, Heat]<br>[3, Morning Warm-up]<br>[4, Cool]<br>[5, Night Purge]<br>[6, Pre Cool]<br>[7, Off]<br>[8, Test]<br>[9, Emergency Heat]<br>[10, Fan Only]<br>[11, Free Cool]<br>[12, Ice-Making]<br>[13, Maximum Heat]<br>[14, Economizer]<br>[15, Dehumidify]<br>[16, Calibrate] |

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| 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]<br>[2, Pressurize]<br>[3, Depressurize]<br>[4, Purge]<br>[5, Shutdown]<br>[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]<br>[2, Not Valid]<br>[3, CHW Open]<br>[4, HW Open]<br>[5, Open]<br>[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]<br>[2, Enabled]<br>[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]<br>[2, Fixed Dry Bulb]<br>[3, Differential Dry Bulb]<br>[4, Fixed Enthalpy]<br>[5, Differential Enthalpy]<br>[6, Fixed Dewpoint and Dry Bulb]<br>[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]<br>[2, Enabled]<br>[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]<br>[2, Heat]<br>[3, Morning Warm-up]<br>[4, Cool]<br>[5, Night Purge]<br>[6, Pre Cool]<br>[7, Off]<br>[8, Dehum-Heating]<br>[9, Emergency Heat]<br>[10, Fan Only]<br>[11, Free Cool]<br>[12, Ice-Making]<br>[13, Maximum Heat]<br>[14, Economizer]<br>[15, Dehumidify]<br>[16, Dehum-Cooling] |

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|-------------------|--------------------------------------------------|------------------------------------------------------------|----------------------------------------|------------|---------------------|------------------------------------------------------------------------------------------------------------------------|
| MV-42             | DX Staging Status                                | Indicates current status of DX cooling staging algorithm   | All Units                              | Read       | [1, Normal]         | [1, Normal]<br>[2, Start Interval Active]<br>[3, Shutdown Delay Active]<br>[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]<br>[2, Start Interval Active]<br>[3, Shutdown Delay Active]<br>[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]<br>[2, Local Control]<br>[3, BAS Default]<br>[4, Not Controlled]<br>[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]<br>[2, Local]<br>[3, Default]<br>[4, Not Controlled]                                                          |
| MV-62             | Space Temperature Source Status                  | Indicates the source of Space Temperature                  | Unit Controls = Space Control or SZ AV | Read       | [4, Not Controlled] | [1, BAS]<br>[2, Local]<br>[3, Default]<br>[4, Not Controlled]                                                          |

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| 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]<br>[2, Starting]<br>[3, Running]<br>[4, Diag: Safety Circuit Alarm]<br>[5, Diag: Low Superheat]<br>[6, Diag: Suction Press Sensor Failure]<br>[7, Diag: Suction Temp Sensor Failure]<br>[8, Diag: Froststat Alarm]<br>[9, Diag: Discharge Press Sensor Failure]<br>[10, Diag: High Pressure Cutout Alarm]<br>[11, VFD Fault/Comp Fault]<br>[12, Diag: High Superheat]<br>[13, Warn: Cond Limit Active]<br>[14, Comp Locked Out]<br>[15, Warn: Froststat Limit Active]<br>[16, Running Unloaded] |

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| 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]<br>[2, Starting]<br>[3, Running]<br>[4, Diag: Safety Circuit Alarm]<br>[5, Diag: Low Superheat]<br>[6, Diag: Suction Press Sensor Failure]<br>[7, Diag: Suction Temp Sensor Failure]<br>[8, Diag: Froststat Aarm]<br>[9, Diag: Discharge Press Sensor Failure]<br>[10, Diag: High Pressure Cutout Alarm]<br>[11, VFD Fault/Comp Fault]<br>[12, Diag: High Superheat]<br>[13, Warn: High Disc Press]<br>[14, Comp Locked Out]<br>[15, Warn: Froststat Warning] |

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|-------------------|-------------------|---------------------------------------------|-------------------------------------------|------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MV-72             | Compressor 3 Mode | Indicates Compressor 3 current control mode | Units equipped with 3 or more Compressors | Read       | [1, Off]           | [1, Off]<br>[2, Starting]<br>[3, Running]<br>[4, Diag: Safety Circuit Alarm]<br>[5, Diag: Low Superheat]<br>[6, Diag: Suction Press Sensor Failure]<br>[7, Diag: Suction Temp Sensor Failure]<br>[8, Diag: Froststat Alarm]<br>[9, Diag: Discharge Press Sensor Failure]<br>[10, Diag: High Pressure Cutout Alarm]<br>[11, VFD Fault/Comp Fault]<br>[12, Diag: High Superheat]<br>[13, Warn: High Disc Press]<br>[14, Comp Locked Out]<br>[15, Warn: Froststat Warning] |

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|-------------------|-----------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------|------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MV-73             | Compressor 4 Mode                 | Indicates Compressor 4 current control mode                                    | Units equipped with 4 or more Compressors        | Read       | [1, Off]           | [1, Off]<br>[2, Starting]<br>[3, Running]<br>[4, Diag: Safety Circuit Alarm]<br>[5, Diag: Low Superheat]<br>[6, Diag: Suction Press Sensor Failure]<br>[7, Diag: Suction Temp Sensor Failure]<br>[8, Diag: Froststat Alarm]<br>[9, Diag: Discharge Press Sensor Failure]<br>[10, Diag: High Pressure Cutout Alarm]<br>[11, VFD Fault/Comp Fault]<br>[12, Diag: High Superheat]<br>[13, Warn: High Disc Press]<br>[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]<br>[2, 2 Comp Failed]<br>[3, 3 Comp Failed]<br>[4, 4 Comp Failed]<br>[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]<br>[2, 1 Compressor]<br>[3, 2 Compressors]<br>[4, 3 Compressors]<br>[5, 4 Compressors]                                                                                                                                                                                                                                                                                                                              |
| 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]<br>[2, Sampling]<br>[3, Enabled]<br>[4, WSE and Mech]<br>[5, WSE Locked Out]<br>[6, Not Present]                                                                                                                                                                                                                                                                                                                         |

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| Object Identifier | Object Name                     | Description                                                         | Configuration Dependency                  | Read/ Write | Relinquish Default | Object States                                                                                                                                       |
|-------------------|---------------------------------|---------------------------------------------------------------------|-------------------------------------------|-------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| MV-86             | Ventilation Override Input Mode | Indicates requested ventilation mode                                | All Units                                 | Read/ Write | [1, Inactive]      | [1, Inactive]<br>[2, Mode A Active]<br>[3, Mode B Active]<br>[4, Mode C Active]<br>[5, Mode D Active]<br>[6, Mode E Active]                         |
| MV-87             | Ventilation Override Status     | Indicates status of ventilation override mode                       | All Units                                 | Read        | [1, Inactive]      | [1, Inactive]<br>[2, Mode A Active]<br>[3, Mode B Active]<br>[4, Mode C Active]<br>[5, Mode D Active]<br>[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]<br>[2, 2 Fans]<br>[3, 3 Fans]<br>[4, 4 Fans]<br>[5, 5 Fans]<br>[6, 6 Fans]<br>[7, 7 Fans]<br>[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]<br>[2, 2 Fans Failed]<br>[3, 3 Fans Failed]<br>[4, 4 Fans Failed]<br>[5, 5 Fans Failed]<br>[6, 6 Fans Failed]<br>[7, None Failed] |
| 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]<br>[2, Start]<br>[3, Run]<br>[4, Alarm]                                                                                                    |
| MV-171            | Supply Fan 2 Mode               | Indicates Supply Fan 2 current control mode                         | All Units                                 | Read        | [1, Off]           | [1, Off]<br>[2, Start]<br>[3, Run]<br>[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]<br>[2, Start]<br>[3, Run]<br>[4, Alarm]                                                                                                    |
| 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]<br>[2, Start]<br>[3, Run]<br>[4, Alarm]                                                                                                    |

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| Object Identifier | Object Name          | Description                                   | Configuration Dependency                  | Read/ Write | Relinquish Default | Object States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|----------------------|-----------------------------------------------|-------------------------------------------|-------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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]<br>[2, Start]<br>[3, Run]<br>[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]<br>[2, Start]<br>[3, Run]<br>[4, Alarm]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MV-176            | Supply Fan 7 Mode    | Indicates Supply Fan 6 current control mode   | Units equipped with 7 Supply Fans         | Read        | [1, Off]           | [1, Off]<br>[2, Start]<br>[3, Run]<br>[4, Alarm]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MV-179            | Refrigerant Type     | Indicates the type of refrigerant in the unit | All Units                                 | Read/ Write |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| MV-180            | CSC Testing Override | CSC Testing Override                          | All Units                                 | Read/ Write | [1, Test Inactive] | [1, Test Inactive]<br>[2, Start Test]<br>[3, SF Cmd 1 On]<br>[4, SFCmd 2 On]<br>[5, Fan 1 On 30%]<br>[6, Fan 1 Off]<br>[7, Fan 2 On 30%]<br>[8, Fan 2 Off]<br>[9, Fan 3 On 30%]<br>[10, Fan 3 Off]<br>[11, Fan 4 On 30%]<br>[12, Fan 4 Off]<br>[13, Fan 5 On 30%]<br>[14, Fan 5 Off]<br>[15, Fan 6 On 30%]<br>[16, Fan 6 Off]<br>[17, Fan 7 On 30%]<br>[18, Fan 7 Off]<br>[19, All Fans On 25%]<br>[20, All Fans On 50%]<br>[21, All Fans Auto]<br>[22, Cooling Test Start]<br>[23, Heating Test Start]<br>[24, Economizer Test Start]<br>[25, Test Disable/Auto Release] |

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| Object Identifier | Object Name        | Description        | Configuration Dependency | Read/Write | Relinquish Default | Object States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------|--------------------|--------------------------|------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MV-181            | CSC Testing Status | CSC Testing Status | All Units                | Read       | [1, Test Inactive] | [1, Test Inactive]<br>[2, Test Starting]<br>[3, Test Ready]<br>[4, Test Running]<br>[5, Fan Contactor 1 On]<br>[6, Fan Contactor 2 On]<br>[7, Fan 1 On 30%]<br>[8, Fan 1 Off]<br>[9, Fan 2 On 30%]<br>[10, Fan 2 Off]<br>[11, Fan 3 On 30%]<br>[12, Fan 3 Off]<br>[13, Fan 4 30%]<br>[14, Fan 4 Off]<br>[15, Fan 5 30%]<br>[16, Fan 5 Off]<br>[17, Fan 6 30%]<br>[18, Fan 6 Off]<br>[19, Fan 7 On 30%]<br>[20, Fan 7 Off]<br>[21, All fans 25%]<br>[22, All fans 50%]<br>[23, All Fan Auto]<br>[24, Cooling Test Active]<br>[25, Heating Test Active]<br>[26, Econ Test Active]<br>[27, Test Fail/Check Diag]<br>[28, Cool Test Fail/Check Diag]<br>[29, Heat Test Fail/Check Diag]<br>[30, Test Stoppped/No Fan Stat] |

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| Object Identifier | Object Name                  | Description                  | Configuration Dependency | Read/ Write | Relinquish Default | Object States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------|------------------------------|--------------------------|-------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MV-182            | CSC Current Testing Override | CSC Current Testing Override | All Units                | Read/ Write | [1, Test Inactive] | [1, Test Inactive]<br>[2, Start Test]<br>[3, SF Cmd 1 On]<br>[4, SFCmd 2 On]<br>[5, Fan 1 On 30%]<br>[6, Fan 1 Off]<br>[7, Fan 2 On 30%]<br>[8, Fan 2 Off]<br>[9, Fan 3 On 30%]<br>[10, Fan 3 Off]<br>[11, Fan 4 On 30%]<br>[12, Fan 4 Off]<br>[13, Fan 5 On 30%]<br>[14, Fan 5 Off]<br>[15, Fan 6 On 30%]<br>[16, Fan 6 Off]<br>[17, Fan 7 On 30%]<br>[18, Fan 7 Off]<br>[19, All Fans On 25%]<br>[20, All Fans On 50%]<br>[21, All Fans Auto]<br>[22, Cooling Test Start]<br>[23, Heating Test Start]<br>[24, Test Disable/Auto Release] |
| MV-183            | CSC Cooling Test Override    | CSC Cooling Test Override    | All Units                | Read/ Write | [1, Test Inactive] | [1, Test Inactive]<br>[2, All Comp Off]<br>[3, Comp 1 On]<br>[4, Comp 2 On]<br>[5, Comp 3 On]<br>[6, Comp 4 On]<br>[7, Test Complete/Auto Release]                                                                                                                                                                                                                                                                                                                                                                                         |

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| Object Identifier | Object Name                  | Description                  | Configuration Dependency               | Read/ Write | Relinquish Default | Object States                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------|------------------------------|----------------------------------------|-------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MV-184            | CSC Cooling Test Status      | CSC Cooling Test Status      | All Units                              | Read        | [1, Test Inactive] | [1, Test Inactive]<br>[2, Test Starting]<br>[3, Test Ready]<br>[4, Test Running]<br>[5, No Fan Status]<br>[6, Test Fail/Check Diag]<br>[7, Comp 1 Start]<br>[8, Comp 1 On]<br>[9, Comp 1 Fail]<br>[10, Comp 2 Start]<br>[11, Comp 2 On]<br>[12, Comp 2 Fail]<br>[13, Comp 3 Start]<br>[14, Comp 3 On]<br>[15, Comp 3 Fail]<br>[16, Comp 4 Start]<br>[17, Comp 4 On]<br>[18, Comp 4 Fail]<br>[19, Comp 5 Start]<br>[20, Comp 5 On]<br>[21, Comp 5 Fail]<br>[22, Comp 6A Start]<br>[23, Comp 6A On]<br>[24, Comp 6A Fail]<br>[25, Comp 6B Start]<br>[26, Comp 6B On]<br>[27, Comp 6B Fail]<br>[28, Circ 6 Start]<br>[29, Circ 6 On]<br>[30, Circ 6 Fail]<br>[31, Test Done/Auto Release] |
| MV-187            | CSC Economizer Test Override | CSC Economizer Test Override | Units equipped with Airside Economizer | Read/ Write | [1, Test Inactive] | [1, Test Inactive]<br>[2, Start Test]<br>[3, Open Economizer]<br>[4, Close Economizer]<br>[5, Test Complete/Auto Release]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| Object Identifier | Object Name                             | Description                                                    | Configuration Dependency               | Read/Write | Relinquish Default           | Object States                                                                                                                                                                                                                                                     |
|-------------------|-----------------------------------------|----------------------------------------------------------------|----------------------------------------|------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MV-188            | CSC Economizer Test Status              | CSC Economizer Test Status                                     | Units equipped with Airside Economizer | Read       | [11, Test Done/Auto Release] | [1, Test Inactive]<br>[2, Test Starting]<br>[3, Test Ready]<br>[4, Test Running]<br>[5, No Fan Status]<br>[6, Test Fail/Check Diag]<br>[7, Econ Open Cmd]<br>[8, Econ Calc Open]<br>[9, Econ Close Cmd]<br>[10, Econ Calc Closed]<br>[11, Test Done/Auto Release] |
| MV-189            | CSC Unit Status                         | Indicates the operationg status of the unit.                   |                                        | Read       | [1, Normal]                  | [1, Normal]<br>[2, Unit Off]<br>[3, Warning Present]<br>[4, Alarm Present]<br>[5, Exterior Stop]<br>[6, Local Stop]<br>[7, E-Stop]<br>[8, BAS Fire]<br>[9, BAS Shutdown]                                                                                          |
| MV-190            | CSC Unit Discharge Air Control Strategy | Indicates the discharge air control strategy used by the unit. |                                        | Read       | [11, Test Done/Auto Release] | [1, Test Inactive]<br>[2, Test Starting]<br>[3, Test Ready]<br>[4, Test Running]<br>[5, No Fan Status]<br>[6, Test Fail/Check Diag]<br>[7, Econ Open Cmd]<br>[8, Econ Calc Open]<br>[9, Econ Close Cmd]<br>[10, Econ Calc Closed]<br>[11, Test Done/Auto Release] |