



## Object Naming Conventions

The communicated points for the Symbio™ controllers are generally named according to their function. While many of the points are read-only, others include both read and write capability. The established naming convention helps to identify the capabilities of each point. For most points, the suffix identifies the capability according to the following definition. While there are some exceptions, the majority of the points have been defined according to these guidelines.

| Suffix     | Description  |
|------------|--|
| Status     | Points with the Status suffix are defined as read-only. The status point reports the value being used by the controller.   |
| Local      | Points with the Local suffix are defined as read-only. The local point reports values associated with controller sensors, both wired and wireless. The local value may or may not be actively used by the controller, depending on the presence or absence of a communicated value (BAS). When both a local and communicated value exist, the communicated value is used.  |
| Active     | Points with the Active suffix are defined as read-only. Points designated as active are normally the result of the arbitration between a communicated value(BAS) and at least one value local to the equipment, such as a sensor or default setpoint. The active point reports the value being input to the controller.  |
| Setpoint   | Points with the Setpoint suffix are defined as either read-only or read/write. For BACnet®, the binary input, analog input and multi-state input points are all read-only. These setpoints report the value currently in use by the controller. The analog value, binary value and multi-state value points are all read/write. These points are provided for use by the building automation system (BAS). When used, these points are written internally to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquish default value/state. Refer to the Appendix for additional information. |
| Input      | Points with the Input suffix are defined as read-only. These points normally reflect the status of a sensor input, either hardwired or communicating wirelessly (Air-Fi®). However, the input point reflects the arbitrated result of the controller sensor input and a communicated value, if present. When both a controller sensor and communicated value exist, the controller will use and report the communicated value.   |
| Arbitrator | Points with the "Arbitrator" suffix are to be used as read-only. The arbitrator prioritizes inputs from communicating points, hardwired points and stored defaults points. The priority array of the arbitration point displays each of the values provided, including the active status, indicating which of the input sources is being used. Refer to the Appendix for additional information.   |
| BAS        | Points with the BAS suffix are defined as read/write. These points are provided for use by the building automation system (BAS). When used, these points are written to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquished default value/state. Refer to the Appendix for additional information.  |
| Command    | Points with the Command suffix are defined as read/write. These points are written to change the default behavior of the controller. Once written, these point values may be persisted.  |
| Request    | Points with the Request suffix are defined as read/write. These points are written to request a change the operating behavior of the controller.   |



## Object Data Points and Diagnostic Data Points

The following tables are sorted as follows:

- Tables are listed by input/output type and sorted by object identifier. These tables provide the user with the unit's type for each object
- Tables are sorted by object name and provide a complete list of object names, types, values/ranges, and descriptions.

*Note: Not all points are available to the user. The available data points are defined during self-configuration and are dependent on the type of equipment.*

**Symbio™ 700 Integration Points List**  
**BACnet®/Modbus**  
**Precedent® and Axiom™ Rooftop WSHP**

Date: 11/08/2024  
 Firmware Release: V7.00.0011  
 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                         | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern | Units        | Low Limit | High Limit | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|-------------------------------------|---|--|------------|---------------------|--------------|-----------|------------|----------------------|-------------------|-------------------|
| AI-10101          | Cooling Capacity Status             | Indicates the actual operating unit cooling capacity, in percent                        | Always   | Read       | NA                  | %            | 0         | 100        | Input                | 30010             | 30011             |
| AI-10102          | Heating Capacity Primary Status     | Indicates the unit (primary) heating capacity, in percent                               | Primary Heating Source Installed   | Read       | NA                  | %            | 0         | 100        | Input                | 30012             | 30013             |
| AI-10104          | Outdoor Air Relative Humidity Local | Indicates the OA humidity value from sensor connected to the controller                 | Economizer Type is Configured as Reference Enthalpy or Comparative Enthalpy and/or Hot Gas Reheat is Configured as Installed | Read       | Sensor Complex      | %            | 0         | 100        | Input                | 30014             | 30015             |
| AI-10110          | Return Air Humidity Local           | Indicates the return air humidity value from sensor connected to the controller         | Economizer Type is Configured as Comparative Enthalpy  | Read       | Sensor Complex      | %            | 0         | 100        | Input                | 30016             | 30017             |
| AI-10111          | Outdoor Air Damper Position         | Indicates OA Damper Actuator feedback signal.   | Outside Air is Configured at 0-100% or 0-50% Motorized Damper  | Read       | NA                  | %            | 0         | 100        | Input                | 30018             | 30019             |
| AI-10116          | Space Humidity Active               | Indicates the active space relative humidity being used by the controller               | Humidity Sensor Configured   | Read       | Sensor Complex      | %            | 0         | 100        | Input                | 30024             | 30025             |
| AI-10117          | Outdoor Air Dew Point               | The outdoor air dewpoint value being utilized by the unit                               | Hot Gas Reheat is configured as Installed  | Read       | NA                  | °F           | -39.5     | 200        | Input                | 30424             | 30425             |
| AI-10118          | Outdoor Air Temperature Active      | Indicates the active OA temperature currently being used by the controller              | Always   | Read       | Sensor Complex      | °F           | -40       | 200        | Input                | 30026             | 30027             |
| AI-10120          | Outdoor Air Humidity Active         | Indicates the active outdoor air humidity value used by the controller                  | Economizer Type is Configured as Reference Enthalpy or Comparative Enthalpy and/or Hot Gas Reheat is Configured as Installed | Read       | Sensor Complex      | %            | 0         | 100        | Input                | 30028             | 30029             |
| AI-10124          | Discharge Air Temperature Local     | Indicates the discharge air temperature value from a sensor connected to the controller | System Type Configured as VVZT, VVDA, or Outside Air is Configured as 0-100% or Discharge Temperature Sensor is Configured   | Read       | NA                  | °F           | -40       | 200        | Input                | 30030             | 30031             |
| AI-10126          | Return Air Temperature Input        | Indicates the actual return air temperature being used by the controller                | Economizer Type is Configured as Comparative Enthalpy or Differential Drybulb  | Read       | Sensor Complex      | °F           | -40       | 200        | Input                | 30034             | 30035             |
| AI-10155          | Duct Static Pressure Local          | Indicates the duct static pressure value from a sensor connected to the controller      | System Type is Configured as VVDA  | Read       | NA                  | In. of water | -0.1      | 5          | Input                | 30040             | 30041             |
| AI-10156          | Outdoor Air Temperature Local       | Indicates the OA temp value from a sensor connected to the controller                   | Always   | Read       | Sensor Complex      | °F           | -40       | 200        | Input                | 30042             | 30043             |
| AI-10182          | Duct Static Pressure Active         | Indicates the duct static pressure active value for communication to SC graphics.       | System Type is Configured as VVDA  | Read       | NA                  | In. of water | -0.1      | 5          | Input                | 30474             | 30475             |
| AI-10218          | Space Temperature Input             | Indicates the space temp from a wired sensor.   | Space Controller is Configured as Single or Dual Setpoint Zone Sensor  | Read       | Sensor Complex      | °F           | -40       | 200        | Input                | 30048             | 30049             |
| AI-10226          | Space Dew Point                     | Calculated Space Dewpoint   | Hot Gas Reheat is Configured as Installed  | Read       | NA                  | °F           | -40       | 200        | Input                | 30426             | 30427             |
| AI-11100          | Coil Temperature Sensor 1           | Outdoor Coil Temperature Sensor for Circuit 1 on HP units                               | All Heat Pumps   | Read       | NA                  | °F           | -40       | 200        | Input                | 30050             | 30051             |

# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                     | Description  | Configuration Dependency  | Read/Write | Arbitration Pattern | Units | Low Limit | High Limit | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|--|---|------------|---------------------|-------|-----------|------------|----------------------|-------------------|-------------------|
| AI-11103          | Space CO2 Concentration Input                   | Indicates the space CO2 concentration from a sensor hardwired to the controller.                             | CO2 Sensor Configured   | Read       | Sensor Complex      | PPM   | 50        | 2000       | Input                | 30056             | 30057             |
| AI-11104          | Space Humidity Input                            | Indicates the space relative humidity from a sensor wired to the controller.                                 | Humidity Sensor Configured  | Read       | Sensor Complex      | %     | 0         | 100        | Input                | 30058             | 30059             |
| AI-11106          | Supply Fan Speed Command Status                 | Indicates the unit commanded supply fan speed output. Typically reflects commands to a speed control device. | Indoor Fan Type Configured as Multi Speed or Variable Speed                     | Read       | NA                  | %     | 0         | 100        | Input                | 30062             | 30063             |
| AI-11109          | Modulating Heat Command Status                  | Indicates the unit commanded modulating heat output.   | Modulating gas heat installed   | Read       | NA                  | %     | 0         | 100        | Input                | 30066             | 30067             |
| AI-11111          | Outdoor Air Damper Command                      | Indicates the unit commanded outside air damper position.  | Outside Air is Configured at 0-100%   | Read       | NA                  | %     | 0         | 100        | Input                | 30068             | 30069             |
| AI-11132          | On-Board I/O Firmware Major Version             | Software Major Version for On-Board I/O Module   | Always  | Read       | NA                  | NA    | 0         | 255        | Input                | 30072             | 30073             |
| AI-11133          | On-Board I/O Firmware Minor Version             | On-Board I/O Module Software build number  | Always  | Read       | NA                  | NA    | 0         | 255        | Input                | 30074             | 30075             |
| AI-11134          | Indoor Options Module Firmware Major Version    | Software Major Version for Indoor Options Module   | Indoor Options Module Installed and In-Use                                      | Read       | NA                  | NA    | 0         | 255        | Input                | 30076             | 30077             |
| AI-11135          | Indoor Options Module Firmware Minor Version    | Indoor Options Module Software build number  | Indoor Options Module Installed and In-Use                                      | Read       | NA                  | NA    | 0         | 255        | Input                | 30078             | 30079             |
| AI-11136          | Fresh Air Options Module Firmware Major Version | Software Major Version for Fresh Air Options Module  | Fresh Air Options Module Installed and In-Use                                   | Read       | NA                  | NA    | 0         | 255        | Input                | 30080             | 30081             |
| AI-11137          | Fresh Air Options Module Firmware Minor Version | Fresh Air Options Module Software build number   | Fresh Air Options Module Installed and In-Use                                   | Read       | NA                  | NA    | 0         | 255        | Input                | 30082             | 30083             |
| AI-11140          | Customer Options Module Firmware Major Version  | Software Major Version for Customer Connection Options Module  | Customer Options Module Installed and In-Use                                    | Read       | NA                  | NA    | 0         | 255        | Input                | 30088             | 30089             |
| AI-11141          | Customer Options Module Firmware Minor Version  | Customer Options Module Software build number  | Customer Options Module Installed and In-Use                                    | Read       | NA                  | NA    | 0         | 255        | Input                | 30090             | 30091             |
| AI-11142          | IGN Module 1 Firmware Major Version             | Software Major Version for Gas Heat Ignition Module 1  | Primary Heating Source is Configured as Gas                                     | Read       | NA                  | NA    | 0         | 255        | Input                | 30092             | 30093             |
| AI-11143          | IGN Module 1 Firmware Minor Version             | Software Minor Version for Gas Heat Ignition Module 1  | Primary Heating Source is Configured as Gas                                     | Read       | NA                  | NA    | 0         | 255        | Input                | 30094             | 30095             |
| AI-11148          | Remote Minimum Position                         | Hardwired remote minimum position for OA damper control.   | Remote Minimum Position is Configured as Installed                              | Read       | NA                  | %     | 0         | 50         | Input                | 30100             | 30101             |
| AI-11149          | Return Air Temperature Active                   | Return Air Temperature being used for control  | Economizer Type is Configured as r Comparative Enthalpy or Differential Drybulb | Read       | Sensor Complex      | °F    | -40       | 200        | Input                | 30102             | 30103             |
| AI-11150          | Sensor Battery Status Air-Fi                    | Status percentage of connected AirFi sensor(s).  | Air-Fi Sensor Installed and Communicating                                       | Read       | NA                  | %     | 5         | 100        | Input                | 30104             | 30105             |
| AI-11151          | Space CO2 Concentration Air-Fi                  | Indicates the space CO2 concentration from a wireless sensor connected to the controller.                    | Air-Fi Sensor Installed and Communicating                                       | Read       | Sensor Complex      | PPM   | 50        | 2000       | Input                | 30106             | 30107             |

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 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                 | Description  | Configuration Dependency  | Read/Write | Arbitration Pattern | Units | Low Limit | High Limit | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|--|---|------------|---------------------|-------|-----------|------------|----------------------|-------------------|-------------------|
| AI-11152          | Space Humidity Air-Fi                       | Indicates the space relative humidity from a connected wireless sensor.  | Air-Fi Sensor Installed and Communicating   | Read       | Sensor Complex      | %     | 0         | 100        | Input                | 30108             | 30109             |
| AI-11154          | Space Temperature Air-Fi                    | Indicates the space temp from a connected wireless (AirFi) sensor  | Air-Fi Sensor Installed and Communicating   | Read       | Sensor Complex      | °F    | -40       | 200        | Input                | 30112             | 30113             |
| AI-11155          | Space Temperature Cooling Setpoint Air-Fi   | Indicates the (occupied) cooling setpoint from the connected wireless space sensor   | Air-Fi Sensor Installed and Communicating   | Read       | Setpoint Simple BAS | °F    | 52        | 95         | Input                | 30114             | 30115             |
| AI-11156          | Space Temperature Heating Setpoint Air-Fi   | Indicates the (occupied) heating setpoint from the connected wireless space sensor   | Air-Fi Sensor Installed and Communicating   | Read       | Setpoint Simple BAS | °F    | 49        | 92         | Input                | 30116             | 30117             |
| AI-11157          | Space Temperature Setpoint Air-Fi           | Space Temperature Setpoint from a connected wireless sensor.   | Air-Fi Sensor Installed and Communicating   | Read       | Setpoint Simple BAS | °F    | 49        | 95         | Input                | 30118             | 30119             |
| AI-11159          | Space Temperature Cooling Setpoint Input    | Indicates the (occupied) cooling setpoint from the connected wired space sensor  | Space Controller Configured as Dual Setpoint Zone Sensor                              | Read       | Setpoint Simple BAS | °F    | 52        | 95         | Input                | 30122             | 30123             |
| AI-11160          | Space Temperature Heating Setpoint Input    | Indicates the (occupied) heating setpoint from the connected wired space sensor  | Heating Source Installed and Space Controller Configured as Dual Setpoint Zone Sensor | Read       | Setpoint Simple BAS | °F    | 49        | 92         | Input                | 30124             | 30125             |
| AI-11161          | Space Temperature Setpoint Input            | Space Temperature Setpoint from a connected wired sensor.  | Space Controller Configured as Single Setpoint Zone Sensor                            | Read       | Setpoint Simple BAS | °F    | 49        | 95         | Input                | 30126             | 30127             |
| AI-11164          | Reheat Valve 1 Step Status                  | Reheat Valve 1 Status in steps from Stepper Motor Module   | Hot Gas Reheat is Configured as Installed   | Read       | NA                  | NA    | 0         | 65535      | Input                | 30132             | 30133             |
| AI-11166          | Evaporator Entering Refrigerant Temperature | Indicates the Evaporator Entering Refrigerant Temperature from a connected wire sensor on the Indoor Options Module.           | Hot Gas Reheat is Configured as Installed   | Read       | Sensor Complex      | °F    | -40       | 200        | Input                | 30402             | 30403             |
| AI-11166          | Evaporator Entering Refrigerant Temperature | Indicates the Evaporator Entering Refrigerant Temperature from a connected wire sensor on the Indoor Options Module.           | Hot Gas Reheat is Configured as Installed   | Read       | Sensor Complex      | °F    | -40       | 200        | Input                | 30402             | 30403             |
| AI-11167          | Stepper Motor Module Firmware Major Version | Software Major Version for Stepper Motor Module  | Stepper Motor Module Installed and In-Use   | Read       | NA                  | NA    | 0         | 255        | Input                | 30428             | 30429             |
| AI-11168          | Stepper Motor Module Firmware Minor Version | Stepper Motor Module Software build number   | Stepper Motor Module Installed and In-Use   | Read       | NA                  | NA    | 0         | 255        | Input                | 30430             | 30431             |
| AI-11169          | Saturated Discharge Temperature             | Saturated Discharge Temperature sensor used in Ultra High Efficiency (UHE) units for Variable Speed (VSPD) compressor control. | Ultra High Efficiency (UHE) configurations  | Read       | NA                  | °F    | -40       | 200        | Input                | 30462             | 30463             |
| AI-11170          | Supply Fan Entering Air Temperature         | Indicates the air temp entering the supply fan.  | Modulating Gas Heat is Configured   | Read       | NA                  | °F    | -40       | 200        | Input                | 30468             | 30469             |

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## BACnet®/Modbus

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| Object Identifier | Object Name                        | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|------------------------------------|--|--|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-10103          | Outdoor Air Temperature Arbitrator | Indicates the OA temp determined by arbitration                        | Always   | Write      | Sensor Complex                      | 65535              | °F    | -40       | 200        | 0                            | Holding              | 40010             | 40011             |
| AV-10104          | Outdoor Air Humidity Arbitrator    | Indicates the actual outdoor air humidity being used by the controller | Economizer Type is Configured as Reference Enthalpy or Comparative Enthalpy and/or Hot Gas Reheat is Configured as Installed | Write      | Sensor Complex                      | 65535              | %     | 0         | 100        | 0                            | Holding              | 40012             | 40013             |
| AV-10106          | Space Temperature Arbitrator       | Indicates the space temp determined by arbitration                     | Space Controller is Configured as Single or Dual Setpoint Zone Sensor  | Write      | Sensor Complex                      | 65535              | °F    | -40       | 200        | 0                            | Holding              | 40014             | 40015             |
| AV-10108          | Space CO2 Concentration Arbitrator | Indicates the space CO2 concentration being used by the controller     | CO2 Sensor Configured  | Write      | Sensor Complex                      | 65535              | PPM   | 50        | 2000       | 0                            | Holding              | 40018             | 40019             |
| AV-10109          | Space Humidity Arbitrator          | Indicates the space relative humidity, determined by the arbitration   | Space Humidity Sensor Configured   | Write      | Sensor Complex                      | 65535              | %     | 0         | 100        | 0                            | Holding              | 40020             | 40021             |
| AV-10113          | Outdoor Air Temperature BAS        | Used to send the outdoor air temperature sensor value                  | Always   | Write      | Sensor Complex                      |                    | °F    | -40       | 200        | 900                          | Holding              | 40022             | 40023             |
| AV-10114          | Space Temperature BAS              | Used to send the space temperature value                               | Space Controller is Configured as Single or Dual Setpoint Zone Sensor  | Write      | Sensor Complex                      |                    | °F    | -40       | 200        | 900                          | Holding              | 40024             | 40025             |
| AV-10116          | Outdoor Air Humidity BAS           | Used to send the outdoor air humidity sensor value                     | Economizer Type is Configured as Reference Enthalpy or Comparative Enthalpy and/or Hot Gas Reheat is Configured as Installed | Write      | Sensor Complex                      |                    | %     | 0         | 100        | 900                          | Holding              | 40026             | 40027             |
| AV-10118          | Space CO2 Concentration BAS        | Used to send the space CO2 concentration value                         | CO2 Sensor Configured  | Write      | Sensor Complex                      |                    | PPM   | 0         | 2000       | 900                          | Holding              | 40028             | 40029             |
| AV-10119          | Space Humidity BAS                 | Used to send the space relative humidity value                         | Space Humidity Sensor Configured   | Write      | Sensor Complex                      |                    | %     | 0         | 100        | 900                          | Holding              | 40030             | 40031             |
| AV-10121          | Discharge Air Cooling Setpoint BAS | Used to request the discharge air temp cooling setpoint value          | System Type is Configured as VVDA  | Write      | Setpoint Simple with Priority Array | 55                 | °F    | 40        | 80         | 0                            | Holding              | 40032             | 40033             |

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| Object Identifier | Object Name                        | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|------------------------------------|---|---|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-10122          | Discharge Air Heating Setpoint BAS | Used to request the discharge air temperature heating setpoint value                              | System Type is Configured as VVDA and Primary Heat is Configured or Conventional Thermostat with modulating gas heat installed. | Write      | Setpoint Simple with Priority Array | 100                | °F    | 50        | 158        | 0                            | Holding              | 40034             | 40035             |
| AV-10123          | Unoccupied Cooling Setpoint        | Used to define the cooling temp setpoint used for control in unoccupied mode                      | Space Controller is Configured as Single or Dual Setpoint Zone Sensor   | Write      | NA                                  | 85                 | °F    | 50        | 90         | 0                            | Holding              | 40036             | 40037             |
| AV-10124          | Unoccupied Heating Setpoint        | Used to define the heating temp setpoint used for control in unoccupied mode                      | Heating Installed and Space Controller is Configured as Single or Dual Setpoint Zone Sensor                                     | Write      | NA                                  | 60                 | °F    | 50        | 90         | 0                            | Holding              | 40038             | 40039             |
| AV-10127          | Space Temperature Setpoint BAS     | BAS-supplied space temperature setpoint value   | Space Controller Configured as Single Setpoint Zone Sensor  | Write      | Setpoint Simple BAS                 | 72.5               | °F    | 40        | 115        | 0                            | Holding              | 40040             | 40041             |
| AV-10130          | Occupied Offset                    | Difference between the occupied cool and heat setps when a single setpoint is used                | Space Controller Configured As Single Setpoint Zone Sensor  | Write      | NA                                  | 2.5                | Δ°F   | 1         | 10         | 0                            | Holding              | 40042             | 40043             |
| AV-10134          | Discharge Air Reheat Setpoint BAS  | Used to request the discharge air temperature reheat setpoint value, for dehumidification control | Hot Gas Reheat is Configured as Installed   | Write      | Setpoint Simple with Priority Array | 70                 | °F    | 65        | 80         | 0                            | Holding              | 40044             | 40045             |
| AV-10138          | Filter Runtime Hours Setpoint      | The setpoint value used by the filter run hours calculation                                       | Always  | Write      | Setpoint Simple with Priority Array | 0                  | NA    | 0         | 10000      | 0                            | Holding              | 40048             | 40049             |
| AV-10139          | Cooling Capacity Enable            | Used to limit the cooling capacity of the unit; 0% = no cooling possible                          | Always  | Write      | Setpoint Simple with Priority Array | 100                | %     | 0         | 100        | 0                            | Holding              | 40050             | 40051             |
| AV-10140          | Heat Primary Enable BAS            | Used to demand limit the heating capacity; 0% = No Heating Possible                               | Primary Heating Source is Configured  | Write      | Setpoint Simple with Priority Array | 100                | %     | 0         | 100        | 0                            | Holding              | 40052             | 40053             |
| AV-10141          | Morning Warmup Setpoint BAS        | Defines the space temp below which MWU is enabled   | Primary Heating Source is Configured and Space Controller is Configured as Single or Dual Setpoint Zone Sensor                  | Write      | Setpoint Simple with Priority Array | 70                 | °F    | 50        | 90         | 0                            | Holding              | 40054             | 40055             |

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|-------------------|--|---|---|------------|-------------------------------------|--------------------|--------------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-10142          | Occupied Standby Offset                    | Difference between the occupied standby cool and heat setpts when a single setpoint is used | Space Controller Configured as Single Setpoint Zone Sensor  | Write      | NA                                  | 7.5                | Δ°F          | 1         | 20         | 0                            | Holding              | 40056             | 40057             |
| AV-10143          | Duct Static Pressure Setpoint BAS          | Used to request the duct static pressure setpoint value                                     | System Type is Configured as VVDA   | Write      | Setpoint Simple with Priority Array | 1                  | In. of water | 0         | 3.5        | 0                            | Holding              | 40058             | 40059             |
| AV-10144          | Economizer Minimum Position Setpoint BAS   | Used to request the economizer minimum position setpoint                                    | Outside Air is Configured as 0-50% Motorized Damper or 0-100%   | Write      | Setpoint Simple with Priority Array | 25                 | %            | 0         | 50         | 0                            | Holding              | 40060             | 40061             |
| AV-10149          | Daytime Warmup Setpoint BAS                | Defines the space temp below which daytime warmup will be enabled                           | System Type is Configured as VVDA and Primary Heat is Configured.   | Write      | Setpoint Simple with Priority Array | 68                 | °F           | 50        | 90         | 0                            | Holding              | 40062             | 40063             |
| AV-10150          | Economizer Outdoor Air Enable Setpoint BAS | Temperature setpoint below which economizing can be used                                    | Outside Air is Configured as 0-100%   | Write      | Setpoint Simple with Priority Array | 60                 | °F           | 50        | 140        | 0                            | Holding              | 40064             | 40065             |
| AV-10154          | Space Cooling Setpoint High Limit BAS      | Space Cooling Setpoint High Limit BAS   | Space Controller is Configured as Single or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                                   | Write      | NA                                  | 90                 | °F           | 40        | 110        | 0                            | Holding              | 40066             | 40067             |
| AV-10155          | Space Cooling Setpoint Low Limit BAS       | Space Cooling Setpoint Low Limit BAS  | Space Controller is Configured as Single or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                                   | Write      | NA                                  | 50                 | °F           | 40        | 110        | 0                            | Holding              | 40068             | 40069             |
| AV-10157          | Space Heating Setpoint High Limit BAS      | Space Heating Setpoint High Limit BAS   | Space Controller is Configured as Single or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT and Primary Heating is Configured | Write      | NA                                  | 80                 | °F           | 40        | 105        | 0                            | Holding              | 40070             | 40071             |
| AV-10158          | Space Heating Setpoint Low Limit BAS       | Space Heating Setpoint Low Limit BAS  | Space Controller is Configured as Single or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT and Primary Heating is Configured | Write      | NA                                  | 50                 | °F           | 40        | 105        | 0                            | Holding              | 40072             | 40073             |



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Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name   | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units      | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|---|------------|-------------------------------------|--------------------|------------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-10159          | Occupied Cooling Setpoint BAS                       | Used to define the occupied cooling setpt when both heat and cool setpoints are used  | Space Controller is Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                                   | Write      | Setpoint Simple BAS                 | 74                 | °F         | 40        | 115        | 0                            | Holding              | 40074             | 40075             |
| AV-10160          | Occupied Heating Setpoint BAS                       | Used to define the occupied heating setpt when both heat and cool setpoints are used  | Space Controller is Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT and Primary Heating is Configured | Write      | Setpoint Simple BAS                 | 71                 | °F         | 40        | 115        | 0                            | Holding              | 40076             | 40077             |
| AV-10161          | Occupied Standby Cooling Setpoint BAS               | Defines the occupied standby cooling setpt when both heat/cool setpoints are provided | Space Controller is Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                                   | Write      | Setpoint Simple with Priority Array | 78                 | °F         | 52        | 95         | 0                            | Holding              | 40078             | 40079             |
| AV-10162          | Occupied Standby Heating Setpoint BAS               | Defines the occupied standby heating setpt when both heat/cool setpoints are provided | Space Controller is Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT and Primary Heating is Configured | Write      | Setpoint Simple with Priority Array | 67                 | °F         | 50        | 92         | 0                            | Holding              | 40080             | 40081             |
| AV-10167          | Discharge Air Temperature Minimum Cool Limit        | Used to define the discharge air temperature minimum cool limit                       | Discharge Air Temperature Sensor is Configured as Installed and Space Controller is Configured as Single or Dual Setpoint Zone Sensor       | Write      | Setpoint Simple with Priority Array | 50                 | °F         | 40        | 100        | 0                            | Holding              | 40082             | 40083             |
| AV-10168          | Relief Enable Position Setpoint                     | The OA damper position above which the Relief sequence is enabled                     | Space Pressure Control is Configured  | Write      | Setpoint Simple with Priority Array | 25                 | %          | 0         | 100        | 0                            | Holding              | 40084             | 40085             |
| AV-10169          | Occupied Bypass Time                                | Used to configure the occupied bypass time (occupancy override)                       | Space Controller is Configured as Single or Dual Setpoint Zone Sensor   | Write      | NA                                  | 120                | NA         | 0         | 240        | 0                            | Holding              | 40086             | 40087             |
| AV-10170          | Economizer Outdoor Air Enthalpy Enable Setpoint BAS | Used to determine the outdoor air enthalpy below which economizing is enabled         | Economizer Type is Configured as Reference Enthalpy or Comparative Enthalpy   | Write      | Setpoint Simple with Priority Array | 25                 | BTUs/pound | 19        | 36         | 0                            | Holding              | 40088             | 40089             |

# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name   | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|---|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-10175          | Space CO2 High Limit                                | Used to define the CO2 high limit, for ventilation purposes   | Demand Controlled Ventilation is Configured as Installed  | Write      | Setpoint Simple with Priority Array | 1100               | PPM   | 1000      | 2000       | 0                            | Holding              | 40090             | 40091             |
| AV-10176          | Space CO2 Low Limit                                 | Normally provided by the BMS to define the CO2 low limit  | Demand Controlled Ventilation is Configured as Installed  | Write      | Setpoint Simple with Priority Array | 400                | PPM   | 300       | 1900       | 0                            | Holding              | 40092             | 40093             |
| AV-10214          | Space Dehumidification Unoccupied Setpoint Active   | Active value for Space Dehumidification Setpoint BAS point being used for control.                  | Hot Gas Reheat is Configured as Modulating and Dehumidification Control is Configured as Relative Humidity or Dew Point               | Read       | Setpoint Simple with Priority Array |                    | %     | 40        | 65         | 0                            | Input                | 30408             | 30409             |
| AV-10228          | Space Dew Point Unoccupied Setpoint Active          | Indicates the Unoccupied Space Dew Point Setpoint actively being used for dehumidification control. | Hot Gas Reheat is Configured as Modulating and Dehumidification Control is Configured as Relative Humidity or Dew Point               | Read       | NA                                  |                    | °F    | 40        | 80         | 0                            | Input                | 30412             | 30413             |
| AV-10281          | Discharge Air Temperature Setpoint Active           | Indicates the discharge air temp setpoint actively being used for control.                          | System Type Configured as VVZT and Space Controller not Configured as Conventional TStat, or HGRH installed, or Economizer installed. | Read       | NA                                  |                    | °F    | 40        | 200        | 0                            | Input                | 30400             | 30401             |
| AV-11103          | Return Air Humidity BAS                             | BAS Source for Return Air Humidity  | Economizer Type is Configured as Comparative Enthalpy   | Write      | Sensor Complex                      |                    | %     | 0         | 100        | 900                          | Holding              | 40094             | 40095             |
| AV-11108          | Cabinet Style                                       | Indicates the cabinet style of the unit   | Always  | Read       | NA                                  |                    | NA    | 0         | 255        | 0                            | Input                | 30150             | 30151             |
| AV-11110          | Supply Fan Speed Command                            | Remote supply fan speed request   | Always  | Write      | Setpoint Simple with Priority Array | 0                  | %     | 0         | 100        | 0                            | Holding              | 40096             | 40097             |
| AV-11112          | Cooling Capacity Setpoint BAS                       | Remote cooling capacity request   | Always  | Write      | Setpoint Simple with Priority Array | 0                  | %     | 0         | 100        | 0                            | Holding              | 40100             | 40101             |
| AV-11113          | Space Dehumidification Setpoint Offset BAS - Active | The active value for the offset applied to the Space Dehumidification Setpoint.                     | Hot Gas Reheat is Configured as Installed   | Read       | Setpoint Simple with Priority Array |                    | %     | 2         | 20         | 0                            | Input                | 30420             | 30421             |
| AV-11115          | Exhaust Or Return Fan Type                          | Identifies the product exhaust or return fan type   | Always  | Read       | NA                                  |                    | NA    | 0         | 255        | 0                            | Input                | 30154             | 30155             |

# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                   | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units      | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|--|------------|-------------------------------------|--------------------|------------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11116          | Filter Runtime Hours                          | Indicates the number of hours air has flowed through the filter                               | Always   | Read       | NA                                  |                    | NA         | 0         | 10000      | 0                            | Input                | 30156             | 30157             |
| AV-11117          | Outdoor Air Enthalpy Active                   | The outdoor air enthalpy value being utilized by the unit                                     | Economizer Type is Configured as Comparative Enthalpy or Reference Enthalpy              | Read       | NA                                  |                    | BTUs/pound | 10        | 96         | 0                            | Input                | 30158             | 30159             |
| AV-11118          | Return Air Temperature Arbitrator             | Arbitrator for Return Air Temperature   | Economizer Type is Configured as Comparative Enthalpy or Differential Drybulb            | Write      | Sensor Complex                      | 65535              | °F         | -40       | 200        | 0                            | Holding              | 40104             | 40105             |
| AV-11119          | Return Air Temperature BAS                    | BAS source for Return Air Temperature   | Economizer Type is Configured as Comparative Enthalpy or Differential Drybulb            | Write      | Sensor Complex                      |                    | °F         | -40       | 200        | 900                          | Holding              | 40106             | 40107             |
| AV-11120          | Heating Demand Limit Capacity Enable Setpoint | Heating Demand Limit Capacity Enable Setpoint   | Demand Management Configured as Demand Limit and Primary Heating Source Configured       | Write      | Setpoint Simple with Priority Array | 100                | %          | 0         | 100        | 0                            | Holding              | 40108             | 40109             |
| AV-11121          | Discharge Air Temperature Maximum Cool Limit  | Maximum discharge air temperature allowed during space temperature cooling mode of operation. | System Type Configured as VVZT and Space Controller not Configured as Conventional TStat | Write      | Setpoint Simple with Priority Array | 104                | °F         | 40        | 200        | 0                            | Holding              | 40110             | 40111             |
| AV-11122          | Run Time - Condenser Fan 1 (Hours)            | Condenser Fan 1 Runtime   | Always   | Read       | NA                                  |                    | NA         | 0         | 200000     | 0                            | Input                | 30160             | 30161             |
| AV-11123          | Run Time - Condenser Fan 2 (Hours)            | Condenser Fan 2 Runtime   | Dual Condenser Fan Systems   | Read       | NA                                  |                    | NA         | 0         | 200000     | 0                            | Input                | 30162             | 30163             |
| AV-11124          | Run Time - Relief Fan (Hours)                 | Relief Fan Runtime  | Space Pressure Control is Configured   | Read       | NA                                  |                    | NA         | 0         | 200000     | 0                            | Input                | 30164             | 30165             |
| AV-11125          | Run Time - Electric Heat Stage 1 (Hours)      | Electric Heat Stage 1 Runtime   | One or more stages of Staged Electric Heat configured                                    | Read       | NA                                  |                    | NA         | 0         | 200000     | 0                            | Input                | 30166             | 30167             |
| AV-11126          | Run Time - Electric Heat Stage 2 (Hours)      | Electric Heat Stage 2 Runtime   | Two or more stages of Staged Electric Heat configured                                    | Read       | NA                                  |                    | NA         | 0         | 200000     | 0                            | Input                | 30168             | 30169             |
| AV-11127          | Run Time - Supply Fan (Hours)                 | Supply Fan Runtime  | Always   | Read       | NA                                  |                    | NA         | 0         | 200000     | 0                            | Input                | 30170             | 30171             |

**Symbio™ 700 Integration Points List**  
**BACnet®/Modbus**  
**Precedent® and Axiom™ Rooftop WSHP**

Date: 11/08/2024  
 Firmware Release: V7.00.0011  
 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name  | Description  | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|--|---|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11128          | Space Temp Cooling Setpoint Status                     | Indicates the space cooling setpoint, being used by the controller | Space Controller is Configured as Single or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                       | Read       | NA                                  |                    | °F    | 52        | 95         | 0                            | Input                | 30172             | 30173             |
| AV-11129          | Space Temp Heating Setpoint Status                     | Indicates the space heating setpoint, being used by the controller | Heating Installed and Space Controller is Configured as Single or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT | Read       | NA                                  |                    | °F    | 49        | 92         | 0                            | Input                | 30174             | 30175             |
| AV-11130          | Design Minimum OA Damper Position at Full Fan Capacity | Design Minimum OA Damper Position at Full Fan Capacity             | Outside Air is Configured as 0-100%   | Write      | Setpoint Simple with Priority Array | 10                 | %     | 0         | 50         | 0                            | Holding              | 40112             | 40113             |
| AV-11131          | Design Minimum OA Damper Position at Mid Fan Capacity  | Design Minimum OA Damper Position at Mid Fan Capacity              | Outside Air is Configured as 0-50% Motorized Damper or 0-100% and Indoor Fan Type is Configured as Variable Speed                         | Write      | Setpoint Simple with Priority Array | 15                 | %     | 0         | 100        | 0                            | Holding              | 40114             | 40115             |
| AV-11132          | Design Minimum OA Damper Position at Min Fan Capacity  | Design Minimum OA Damper Position at Min Fan Capacity              | Outside Air is Configured as 0-100% and Indoor Fan Type is Configured as Variable Speed or Multi Speed                                    | Write      | Setpoint Simple with Priority Array | 25                 | %     | 0         | 100        | 0                            | Holding              | 40116             | 40117             |
| AV-11133          | DCV Minimum OA Damper Position at Full Fan Capacity    | DCV Minimum OA Damper Position at Full Fan Capacity                | Outside Air is Configured as 0-50% Motorized Damper or 0-100% and DCV is Configured   | Write      | Setpoint Simple with Priority Array | 5                  | %     | 0         | 40         | 0                            | Holding              | 40118             | 40119             |
| AV-11134          | DCV Minimum OA Damper Position at Mid Fan Capacity     | DCV Minimum OA Damper Position at Mid Fan Capacity                 | Outside Air is Configured as 0-100% and Indoor Fan Type is Configured as Variable Speed and DCV is Configured                             | Write      | Setpoint Simple with Priority Array | 10                 | %     | 0         | 100        | 0                            | Holding              | 40120             | 40121             |
| AV-11135          | DCV Minimum OA Damper Position at Min Fan Capacity     | DCV Minimum OA Damper Position at Min Fan Capacity                 | Outside Air is Configured as 0-100% and Indoor Fan Type is Configured as Variable Speed or Multi Speed and DCV is Configured              | Write      | Setpoint Simple with Priority Array | 15                 | %     | 0         | 100        | 0                            | Holding              | 40122             | 40123             |

**Symbio™ 700 Integration Points List**  
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**Precedent® and Axiom™ Rooftop WSHP**

Date: 11/08/2024  
 Firmware Release: V7.00.0011  
 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                  | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units        | Low Limit | High Limit  | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|---|--|------------|-------------------------------------|--------------------|--------------|-----------|-------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11136          | Space Dehumidification Setpoint BAS - Active | The active value for the Space Dehumidification Setpoint for Relative Humidity control. | Hot Gas Reheat is Configured as Installed  | Read       | Setpoint Simple with Priority Array |                    | %            | 40        | 60          | 0                            | Input                | 30422             | 30423             |
| AV-11137          | Discharge Air Heating Setpoint High Limit    | Discharge Air Heating Setpoint High Limit (deg F)                                       | VVZT and modulating gas heat installed   | Write      | Setpoint Simple with Priority Array | 150                | °F           | 50        | 150         | 0                            | Holding              | 40124             | 40125             |
| AV-11138          | Discharge Air Heating Setpoint (Target)      | Discharge Air Heating Setpoint (Target)   | VVZT and modulating gas heat installed   | Write      | Setpoint Simple with Priority Array | 100                | °F           | 50        | 150         | 0                            | Holding              | 40126             | 40127             |
| AV-11140          | Discharge Air Cooling Setpoint (Target)      | Discharge Air Cooling Setpoint (Target)   | System Type Configured as VVZT and Space Controller is Configured as Single or Dual Setpoint Zone Sensor | Write      | Setpoint Simple with Priority Array | 55                 | °F           | 40        | 80          | 0                            | Holding              | 40128             | 40129             |
| AV-11147          | Economizer Dry Bulb Enable Offset            | Outdoor air temperature offset below dry bulb economizer enable setpoint.               | Outside Air is Configured as 0-100%  | Write      | NA                                  | 5                  | Δ°F          | 2         | 10          | 0                            | Holding              | 40130             | 40131             |
| AV-11148          | Duct Static Pressure P-Gain (%IWC)           | Proportional gain for fan speed on duct static pressure control (%IWC)                  | System Type Configured as VVDA   | Write      | NA                                  | 3.3                | %            | 0.5       | 10          | 0                            | Holding              | 40198             | 40199             |
| AV-11149          | Duct Static Pressure Deadband BAS            | Supply Air Pressure Setpoint Deadband   | System Type Configured as VVDA   | Write      | Setpoint Simple with Priority Array | 0.2                | In. of water | 0.15      | 1.0         | 0                            | Holding              | 40134             | 40135             |
| AV-11150          | Cooling Reset Start Temp                     | Discharge air cooling reset start temperature   | System Type Configured as VVDA   | Write      | NA                                  | 90                 | °F           | 0         | 95          | 0                            | Holding              | 40136             | 40137             |
| AV-11151          | Cooling Reset End Temp                       | Discharge air cooling reset end temperature   | System Type Configured as VVDA   | Write      | NA                                  | 70                 | °F           | 0         | 95          | 0                            | Holding              | 40138             | 40139             |
| AV-11152          | Cooling Reset Amount                         | Discharge air cooling amount to reset between start and end temperatures                | System Type Configured as VVDA   | Write      | NA                                  | 5                  | Δ°F          | 0         | 20          | 0                            | Holding              | 40266             | 40267             |
| AV-11153          | Service Test Timeout (Minutes)               | Timer (minutes) to indicate when the unit should cease service test.                    | Always   | Write      | NA                                  | 60                 | NA           | 1         | 120         | 0                            | Holding              | 40140             | 40141             |
| AV-11154          | Economizer Cooling Reference Enthalpy Offset | Economizer Cooling Reference Enthalpy Offset  | Economizer Type is Configured as Comparative Enthalpy or Reference Enthalpy                              | Write      | NA                                  | 3                  | BTUs/pound   | 2         | 6           | 0                            | Holding              | 40142             | 40143             |
| AV-11155          | Starts - Condenser Fan 1                     | Condenser Fan 1 Starts  | Always   | Read       | NA                                  |                    | NA           | 0         | 150000<br>0 | 0                            | Input                | 30186             | 30187             |
| AV-11156          | Starts - Condenser Fan 2                     | Condenser Fan 2 Starts  | Dual Condenser Fan Systems   | Read       | NA                                  |                    | NA           | 0         | 150000<br>0 | 0                            | Input                | 30188             | 30189             |

**Symbio™ 700 Integration Points List**  
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**Precedent® and Axiom™ Rooftop WSHP**

Date: 11/08/2024  
 Firmware Release: V7.00.0011  
 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                   | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit  | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|---|------------|-------------------------------------|--------------------|-------|-----------|-------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11157          | Starts - Relief Fan                           | Relief Fan Starts   | Space Pressure Control is Configured                                  | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30190             | 30191             |
| AV-11158          | Starts - Electric Heat Stage 1                | Electric Heat Stage 1 Starts  | One or more stages of Staged Electric Heat configured                 | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30192             | 30193             |
| AV-11159          | Starts - Electric Heat Stage 2                | Electric Heat Stage 2 Starts  | Two or more stages of Staged Electric Heat configured                 | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30194             | 30195             |
| AV-11160          | Starts - Supply Fan                           | Counter for Supply Fan Starts                                       | Always  | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30196             | 30197             |
| AV-11161          | Supply Fan Type                               | Indicates the unit supply fan type                                  | Always  | Read       | NA                                  |                    | NA    | 0         | 255         | 0                            | Input                | 30198             | 30199             |
| AV-11163          | Supply Fan Speed Status                       | Estimated supply fan speed being utilized.                          | Always  | Read       | NA                                  |                    | %     | 0         | 100         | 0                            | Input                | 30202             | 30203             |
| AV-11164          | Heating Capacity Setpoint BAS                 | Setpoint to command the unit to a given heating capacity output     | Primary Heating Source Configured                                     | Write      | Setpoint Simple with Priority Array | 0                  | %     | 0         | 100         | 0                            | Holding              | 40144             | 40145             |
| AV-11167          | Demand Shed Offset Setpoint                   | Demand Shed Offset Setpoint   | Demand Management Configured as Demand Shed                           | Write      | Setpoint Simple with Priority Array | 4                  | Δ°F   | 0         | 10          | 0                            | Holding              | 40148             | 40149             |
| AV-11168          | Cooling Demand Limit Capacity Enable Setpoint | Cooling Demand Limit Capacity Enable Setpoint                       | Demand Management Configured as Demand Limit                          | Write      | Setpoint Simple with Priority Array | 0                  | %     | 0         | 100         | 0                            | Holding              | 40150             | 40151             |
| AV-11169          | Run Time - Compressor 1 (Hours)               | Compressor 1 Runtime  | Always  | Read       | NA                                  |                    | NA    | 0         | 200000      | 0                            | Input                | 30204             | 30205             |
| AV-11170          | Run Time - Compressor 2 (Hours)               | Compressor 2 Runtime  | Multi-Compressor Systems  | Read       | NA                                  |                    | NA    | 0         | 200000      | 0                            | Input                | 30206             | 30207             |
| AV-11173          | Supply Fan Minimum Speed Setpoint             | Minimum supply fan speed command.                                   | Indoor Fan Type Configured as Multi Speed or Variable Speed           | Write      | Setpoint Simple with Priority Array | 0                  | %     | 0         | 100         | 0                            | Holding              | 40152             | 40153             |
| AV-11174          | Supply Fan Maximum Speed Setpoint             | Maximum supply fan speed command.                                   | Indoor Fan Type Configured as Multi Speed or Variable Speed           | Write      | Setpoint Simple with Priority Array | *See (a)           | %     | *See (a)  | 100         | 0                            | Holding              | 40154             | 40155             |
| AV-11178          | Space Temperature Active                      | Indicates the active space temperature being used by the controller | Space Controller is Configured as Single or Dual Setpoint Zone Sensor | Read       | Sensor Complex                      |                    | °F    | -40       | 200         | 0                            | Input                | 30212             | 30213             |

**Symbio™ 700 Integration Points List**  
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Date: 11/08/2024  
 Firmware Release: V7.00.0011  
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| Object Identifier | Object Name                                     | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit  | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|--|------------|-------------------------------------|--------------------|-------|-----------|-------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11180          | Space Temperature Heating Setpoint Input Active | Active heating space temperature input setpoint as determined by arbitrating the heating setpoint inputs (wired and air-fi) with the occupied setpoint BAS. | Heating Installed and Space Controller Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT | Read       | Setpoint Simple BAS                 |                    | °F    | 49        | 92          | 0                            | Input                | 30214             | 30215             |
| AV-11181          | Space Temperature Setpoint Active               | Indicates the active space temperature setpoint being used by the controller  | Space Controller is Configured as Single or Dual Setpoint Zone Sensor  | Read       | Setpoint Simple BAS                 |                    | °F    | 49        | 95          | 0                            | Input                | 30216             | 30217             |
| AV-11183          | Starts - Compressor 1                           | Compressor 1 Starts   | Always   | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30218             | 30219             |
| AV-11184          | Starts - Compressor 2                           | Compressor 2 Starts   | Multi-Compressor Systems   | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30220             | 30221             |
| AV-11185          | Cooling Capacity Enable - Active                | Active value for Cooling Capacity Enable point being used for control.  | Always   | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100         | 0                            | Input                | 30222             | 30223             |
| AV-11186          | Daytime Warmup Setpoint BAS - Active            | Active value for Daytime Warmup Setpoint BAS point being used for control.  | Heating Installed and System Type is Configured at VVDA  | Read       | Setpoint Simple with Priority Array |                    | °F    | 50        | 90          | 0                            | Input                | 30224             | 30225             |
| AV-11187          | Supply Fan Speed Command - Active               | Active value for Supply Fan Speed Command point being used for control.   | Always   | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100         | 0                            | Input                | 30226             | 30227             |
| AV-11189          | Cooling Capacity Setpoint BAS - Active          | Active value for Cooling Capacity Setpoint BAS point being used for control.  | Always   | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100         | 0                            | Input                | 30230             | 30231             |
| AV-11190          | Discharge Air Cooling Setpoint BAS - Active     | Active value for Discharge Air Cooling Setpoint BAS point being used for control.   | System Type Configured as VVDA   | Read       | Setpoint Simple with Priority Array |                    | °F    | 40        | 80          | 0                            | Input                | 30232             | 30233             |
| AV-11191          | Discharge Air Heating Setpoint BAS - Active     | Active value for Discharge Air Heating Setpoint BAS point being used for control.   | Heating Installed and System Type is Configured at VVDA or Conventional Thermostat with modulating gas heat installed.       | Read       | Setpoint Simple with Priority Array |                    | °F    | 50        | 158         | 0                            | Input                | 30234             | 30235             |
| AV-11192          | Discharge Air Reheat Setpoint BAS - Active      | Active value for Discharge Air Reheat Setpoint BAS point being used for control.  | Hot Gas Reheat is Configured as Modulating   | Read       | Setpoint Simple with Priority Array |                    | °F    | 65        | 80          | 0                            | Input                | 30236             | 30237             |



# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

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| Object Identifier | Object Name  | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units      | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|--|--|------------|-------------------------------------|--------------------|------------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11193          | Discharge Air Temperature Minimum Cool Limit - Active        | Active value for Discharge Air Temperature Minimum Cool Limit point being used for control.        | (System Type Configured as VVZT or Supply Air Tempering Configured as Enabled and Space Controller Configured as Single or Dual Setpoint Zone Sensor | Read       | Setpoint Simple with Priority Array |                    | °F         | 40        | 100        | 0                            | Input                | 30238             | 30239             |
| AV-11195          | Economizer Minimum Position Setpoint BAS - Active            | Active value for Economizer Minimum Position Setpoint BAS point being used for control.            | Outside Air is Configured as 0-50% Motorized Damper or 0-100%  | Read       | Setpoint Simple with Priority Array |                    | %          | 0         | 100        | 0                            | Input                | 30240             | 30241             |
| AV-11196          | Economizer Outdoor Air Enthalpy Enable Setpoint BAS - Active | Active value for Economizer Outdoor Air Enthalpy Enable Setpoint BA point being used for control.  | Economizer Type is Configured as Reference Enthalpy or Comparative Enthalpy  | Read       | Setpoint Simple with Priority Array |                    | BTUs/pound | 19        | 36         | 0                            | Input                | 30242             | 30243             |
| AV-11197          | Economizer Outdoor Air Enable Setpoint BAS - Active          | Active value for Economizing Outdoor Air Enable Setpoint point being used for control.             | Outside Air is Configured as 0-100%  | Read       | Setpoint Simple with Priority Array |                    | °F         | 50        | 140        | 0                            | Input                | 30244             | 30245             |
| AV-11198          | Relief Enable Position Setpoint - Active                     | Active value for Relief Enable Position Setpoint point being used for control.                     | Space Pressure Control is Configured   | Read       | Setpoint Simple with Priority Array |                    | %          | 0         | 100        | 0                            | Input                | 30246             | 30247             |
| AV-11199          | Heating Demand Limit Capacity Enable Setpoint - Active       | Active value for Heating Demand Limit Capacity Enable Setpoint point being used for control.       | Demand Management Configured as Demand Limit and Primary Heating Source Configured   | Read       | Setpoint Simple with Priority Array |                    | %          | 0         | 100        | 0                            | Input                | 30248             | 30249             |
| AV-11200          | Discharge Air Temperature Maximum Cool Limit - Active        | Active value for Discharge Air Temperature Maximum Cool Limit point being used for control.        | System Type Configured as VVZT and Space Controller is Configured as Single or Dual Setpoint Zone Sensor   | Read       | Setpoint Simple with Priority Array |                    | °F         | 40        | 200        | 0                            | Input                | 30250             | 30251             |
| AV-11202          | Cool Type  | Describes the type of cooling in the unit  | Always   | Read       | NA                                  |                    | NA         | 0         | 255        | 0                            | Input                | 30252             | 30253             |
| AV-11204          | DCV Minimum OA Damper Position at Full Fan Capacity - Active | Active value for DCV Minimum OA Damper Position at Full Fan Capacity point being used for control. | Outside Air is Configured as 0-100% and DCV is Configured  | Read       | Setpoint Simple with Priority Array |                    | %          | 0         | 40         | 0                            | Input                | 30256             | 30257             |
| AV-11205          | DCV Minimum OA Damper Position at Mid Fan Capacity - Active  | Active value for DCV Minimum OA Damper Position at Mid Fan Capacity point being used for control.  | Outside Air is Configured as 0-100% and Indoor Fan Type is Configured as Variable Speed and DCV is Configured  | Read       | Setpoint Simple with Priority Array |                    | %          | 0         | 100        | 0                            | Input                | 30258             | 30259             |



# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name   | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|--|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11206          | DCV Minimum OA Damper Position at Min Fan Capacity - Active     | Active value for DCV Minimum OA Damper Position at Min Fan Capacity point being used for control.     | Outside Air is Configured as 0-100% and Indoor Fan Type is Configured as Variable Speed or Multi Speed and DCV is Configured     | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100        | 0                            | Input                | 30260             | 30261             |
| AV-11209          | Demand Shed Offset Setpoint - Active                            | Active value for Demand Shed Offset Setpoint point being used for control.                            | Demand Management Configured as Demand Shed  | Read       | Setpoint Simple with Priority Array |                    | Δ°F   | 0         | 10         | 0                            | Input                | 30264             | 30265             |
| AV-11211          | Design Minimum OA Damper Position at Full Fan Capacity - Active | Active value for Design Minimum OA Damper Position at Full Fan Capacity point being used for control. | Outside Air is Configured as 0-50% Motorized Damper or 0-100%  | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 50         | 0                            | Input                | 30268             | 30269             |
| AV-11212          | Design Minimum OA Damper Position at Mid Fan Capacity - Active  | Active value for Design Minimum OA Damper Position at Mid Fan Capacity point being used for control.  | Outside Air is Configured as 0-50% Motorized Damper or 0-100% and Indoor Fan Type is Configured as Variable Speed                | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100        | 0                            | Input                | 30270             | 30271             |
| AV-11213          | Design Minimum OA Damper Position at Min Fan Capacity - Active  | Active value for Design Minimum OA Damper Position at Min Fan Capacity point being used for control.  | Outside Air is Configured as 0-50% Motorized Damper or 0-100% and Indoor Fan Type is Configured as Variable Speed or Multi Speed | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100        | 0                            | Input                | 30272             | 30273             |
| AV-11214          | Economizer Dry Bulb Disable Return Air Offset                   | Differential dry bulb economizer disable offset.  | Outside Air is Configured as 0-100%  | Write      | NA                                  | 6                  | Δ°F   | 2         | 10         | 0                            | Holding              | 40290             | 40291             |
| AV-11217          | Filter Runtime Hours Setpoint - Active                          | Active value for Filter Runtime Hours Setpoint point being used for control.                          | Always   | Read       | Setpoint Simple with Priority Array |                    | NA    | 0         | 10000      | 0                            | Input                | 30280             | 30281             |
| AV-11218          | Heat Primary Enable BAS - Active                                | Active value for Heat Primary Enable BAS point being used for control.                                | Primary Heating Source Configured  | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100        | 0                            | Input                | 30282             | 30283             |
| AV-11219          | Heating Capacity Setpoint BAS - Active                          | Active value for Heating Capacity Setpoint BAS point being used for control.                          | Primary Heating Source Configured  | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100        | 0                            | Input                | 30284             | 30285             |
| AV-11220          | Morning Warmup Setpoint BAS - Active                            | Active value for Morning Warmup Setpoint BAS point being used for control.                            | Heating Installed and System Type is Configured at VVDA or Space Controller is Configured as Single or Dual Setpoint Zone Sensor | Read       | Setpoint Simple with Priority Array |                    | °F    | 50        | 90         | 0                            | Input                | 30286             | 30287             |

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## BACnet®/Modbus

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Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name  | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units        | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|--|--|------------|-------------------------------------|--------------------|--------------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11226          | Space CO2 High Limit - Active                          | Active value for Space CO2 High Limit point being used for control.                          | Demand Controlled Ventilation is Configured as Installed   | Read       | Setpoint Simple with Priority Array |                    | PPM          | 1000      | 2000       | 0                            | Input                | 30292             | 30293             |
| AV-11227          | Space CO2 Low Limit - Active                           | Active value for Space CO2 Low Limit point being used for control.                           | Demand Controlled Ventilation is Configured as Installed   | Read       | Setpoint Simple with Priority Array |                    | PPM          | 300       | 1900       | 0                            | Input                | 30294             | 30295             |
| AV-11236          | Discharge Air Cooling Setpoint (Target) - Active       | Active value for Discharge Air Cooling Setpoint (Target) point being used for control.       | System Type Configured as VVZT and Space Controller is Configured as Single or Dual Setpoint Zone Sensor | Read       | Setpoint Simple with Priority Array |                    | °F           | 40        | 80         | 0                            | Input                | 30302             | 30303             |
| AV-11237          | Discharge Air Heating Setpoint High Limit - Active     | Active value for Discharge Air Heating Setpoint High Limit point being used for control.     | VVZT and modulating gas heat installed   | Read       | Setpoint Simple with Priority Array |                    | °F           | 50        | 150        | 0                            | Input                | 30304             | 30305             |
| AV-11238          | Duct Static Pressure Reset Time (seconds)              | Reset time for fan speed on duct static pressure control (seconds)                           | System Type Configured as VVDA   | Write      | NA                                  | 5                  | NA           | 0.5       | 60         | 0                            | Holding              | 40200             | 40201             |
| AV-11240          | Duct Static Pressure Deadband Active                   | Active value for Supply Air Pressure Setpoint Deadband point being used for control.         | System Type Configured as VVDA   | Read       | Setpoint Simple with Priority Array |                    | In. of water | 0.15      | 1.0        | 0                            | Input                | 30310             | 30311             |
| AV-11241          | Heating Reset Start Temp                               | Discharge air heating reset start temperature  | Heating is Installed and System Type is Configured as VVDA   | Write      | NA                                  | 32                 | °F           | 0         | 95         | 0                            | Holding              | 40260             | 40261             |
| AV-11242          | Heating Reset End Temp                                 | Discharge air heating reset end temperature  | Heating is Installed and System Type is Configured as VVDA   | Write      | NA                                  | 60                 | °F           | 0         | 95         | 0                            | Holding              | 40262             | 40263             |
| AV-11243          | Supply Fan Maximum Speed Setpoint - Active             | Active value for Supply Fan Maximum Speed Setpoint point being used for control.             | Indoor Fan Type Configured as Multi Speed or Variable Speed  | Read       | Setpoint Simple with Priority Array |                    | %            | 25        | 100        | 0                            | Input                | 30316             | 30317             |
| AV-11245          | Supply Fan Minimum Speed Setpoint - Active             | Active value for Supply Fan Minimum Speed Setpoint point being used for control.             | Indoor Fan Type Configured as Multi Speed or Variable Speed  | Read       | Setpoint Simple with Priority Array |                    | %            | 0         | 100        | 0                            | Input                | 30320             | 30321             |
| AV-11247          | Cooling Demand Limit Capacity Enable Setpoint - Active | Active value for Cooling Demand Limit Capacity Enable Setpoint point being used for control. | Demand Management Configured as Demand Limit   | Read       | Setpoint Simple with Priority Array |                    | %            | 0         | 100        | 0                            | Input                | 30324             | 30325             |
| AV-11248          | Economizer Minimum Position Setpoint Active            | Indicates the economizer min position setpoint value resulting from arbitration              | Outside Air is Configured as 0-50% Motorized Damper or 0-100%  | Read       | NA                                  |                    | %            | 0         | 100        | 0                            | Input                | 30326             | 30327             |
| AV-11249          | Heating Capacity Secondary Status                      | Indicates the unit secondary heating capacity being utilized.                                | Secondary Heating Source Configured  | Read       | NA                                  |                    | %            | 0         | 100        | 0                            | Input                | 30328             | 30329             |

# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                    | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default  | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|---|--|------------|-------------------------------------|---------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11250          | Occupied Standby Cooling Setpoint BAS - Active | Active value for Occupied Standby Cooling Setpoint BAS                          | Space Controller Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                       | Read       | Setpoint Simple with Priority Array |                     | °F    | 52        | 95         | 0                            | Input                | 30330             | 30331             |
| AV-11251          | Occupied Standby Heating Setpoint BAS - Active | Active value for Occupied Standby Heating Setpoint BAS                          | Heating Installed and Space Controller Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT | Read       | Setpoint Simple with Priority Array |                     | °F    | 50        | 92         | 0                            | Input                | 30332             | 30333             |
| AV-11252          | Preheat Type                                   | Identifies the product preheat type   | Always   | Read       | NA                                  |                     | NA    | 0         | 255        | 0                            | Input                | 30334             | 30335             |
| AV-11253          | Reheat Type                                    | Identifies the product reheat type  | Always   | Read       | NA                                  |                     | NA    | 0         | 255        | 0                            | Input                | 30336             | 30337             |
| AV-11254          | Space CO2 Concentration Active                 | Indicates the active space CO2 concentration being used by the controller       | CO2 Sensor Configured  | Read       | Sensor Complex                      |                     | PPM   | 0         | 2000       | 0                            | Input                | 30338             | 30339             |
| AV-11256          | Compressor Cooling P-Gain (%/F)                | Proportional gain for single loop Compressor Cooling PI controller (%/F)        | System Type Configured as CVZT or VVZT and Space Controller is Configured as Single or Dual Setpoint Zone Sensor             | Write      | NA                                  | *See <sup>(b)</sup> | %     | 0.1       | 100        | 0                            | Holding              | 40156             | 40157             |
| AV-11257          | Compressor Cooling Reset Time (seconds)        | Reset time for single loop compressor Cooling PI controller (second)            | System Type Configured as CVZT or VVZT and Space Controller is Configured as Single or Dual Setpoint Zone Sensor             | Write      | NA                                  | *See <sup>(b)</sup> | NA    | 10        | 3600       | 0                            | Holding              | 40158             | 40159             |
| AV-11258          | Economizer Cooling P-Gain 1 (%/F)              | Proportional gain for 1st loop Econ PI controller (%/F), for CVZT/VVZT systems. | System Type Configured as CVZT/VVZT and Outside Air is configured as 0-100%  | Write      | NA                                  | 2                   | %     | 0.1       | 100        | 0                            | Holding              | 40160             | 40161             |
| AV-11259          | Economizer Cooling Reset Time - 1 (Seconds)    | Reset time for 1st loop Econ PI controller (seconds), for CVZT/VVZT systems.    | System Type Configured as CVZT/VVZT and Outside Air is configured as 0-100%  | Write      | NA                                  | 1000                | NA    | 10        | 3600       | 0                            | Holding              | 40162             | 40163             |
| AV-11264          | Compressor Heating P-Gain (%/F)                | Proportional gain for single loop Heat Pump Heating PI controller (%/F)         | Heat Pumps with Space Controller not Configured as Conventional TStat  | Write      | NA                                  | *See <sup>(c)</sup> | %     | 0.1       | 100        | 0                            | Holding              | 40168             | 40169             |

# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                 | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|--|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11265          | Compressor Heating Reset Time (seconds)     | Reset time for single loop Heat Pump Heating PI controller (seconds)  | Heat Pumps with non-Thermostat CVZT, VVZT System Type  | Write      | NA                                  | *See (c)           | NA    | 10        | 3600       | 0                            | Holding              | 40170             | 40171             |
| AV-11266          | Auxiliary Heating P-Gain (%/F)              | Proportional gain for Electric single loop PI controller (%/F)  | Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and Primary Heat is Installed      | Write      | NA                                  | *See (d)           | %     | 0.1       | 100        | 0                            | Holding              | 40172             | 40173             |
| AV-11267          | Auxiliary Heating Reset Time (seconds)      | Reset time for Electric single loop PI controller (in seconds)  | Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and Primary Heat is Installed      | Write      | NA                                  | *See (d)           | NA    | 10        | 3600       | 0                            | Holding              | 40174             | 40175             |
| AV-11268          | Compressor Cooling P-Gain - 1 (%/F)         | Proportional gain for 1st loop Cooling PI controller (%/F)  | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor | Write      | NA                                  | 2                  | %     | 0.1       | 100        | 0                            | Holding              | 40176             | 40177             |
| AV-11269          | Compressor Cooling Reset Time - 1 (seconds) | Reset time for 1st loop Cooling PI controller (second)  | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor | Write      | NA                                  | 1000               | NA    | 10        | 3600       | 0                            | Holding              | 40178             | 40179             |
| AV-11270          | Compressor Cooling P-Gain - 2 (%/F)         | Proportional gain for 2nd loop compressor cooling PI controller (%/F)   | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor | Write      | NA                                  | 5                  | %     | 0.1       | 100        | 0                            | Holding              | 40180             | 40181             |
| AV-11271          | Compressor Cooling Reset Time - 2 (seconds) | Reset time for 2nd loop compressor cooling PI controller (second)   | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor | Write      | NA                                  | 80                 | NA    | 1         | 1000       | 0                            | Holding              | 40182             | 40183             |
| AV-11272          | Economizer Discharge Air Setpoint           | Discharge Air Setpoint selection to be used for Economizer control on Conventional Thermostat controlled units. | Outside Air is Configured as 0-100% and Space Controller is Configured as Conventional TStat                 | Write      | Setpoint Simple with Priority Array | 55                 | °F    | 40        | 80         | 0                            | Holding              | 40184             | 40185             |
| AV-11273          | Economizer Discharge Air Setpoint - Active  | Active Discharge Air Setpoint used for Economizer control on Conventional Thermostat controlled units.          | Outside Air is Configured as 0-100% and Space Controller is Configured as Conventional TStat                 | Read       | Setpoint Simple with Priority Array |                    | °F    | 40        | 80         | 0                            | Input                | 30340             | 30341             |

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## BACnet®/Modbus

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Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                     | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units        | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|--|--|------------|-------------------------------------|--------------------|--------------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11274          | Heat Pump Heating Lockout Setpoint              | Setpoint at which to disable heat pump heating based on outdoor air temperature.   | Heat Pump Systems  | Write      | Setpoint Simple with Priority Array | 0                  | °F           | *See (e)  | 45         | 0                            | Holding              | 40186             | 40187             |
| AV-11275          | Heat Pump Heating Lockout Setpoint - Active     | Setpoint at which to disable heat pump heating based on outdoor air temperature.   | Heat Pump Systems  | Read       | Setpoint Simple with Priority Array |                    | °F           | -18       | 45         | 0                            | Input                | 30342             | 30343             |
| AV-11276          | Space Temperature Setpoint Input Active         | Active space temperature input setpoint as determined by arbitrating the space temperature setpoint inputs (wired and air-fi) with the space temperature setpoint BAS. | Space Controller Configured as Single Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT | Read       | Setpoint Simple BAS                 |                    | °F           | 49        | 95         | 0                            | Input                | 30344             | 30345             |
| AV-11277          | Space Temperature Cooling Setpoint Input Active | Active cooling space temperature input setpoint as determined by arbitrating the cooling setpoint inputs (wired and air-fi) with the occupied setpoint BAS.            | Space Controller Configured as Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT   | Read       | Setpoint Simple BAS                 |                    | °F           | 52        | 95         | 0                            | Input                | 30346             | 30347             |
| AV-11278          | Supply Fan Power                                | Supply Fan Drive Output Power  | Indoor Fan Type Configured as Multi Speed or Variable Speed  | Read       | NA                                  |                    | KW           | 0         | 120        | 0                            | Input                | 30348             | 30349             |
| AV-11280          | Duct Static Pressure Setpoint Active            | Indicates the duct static pressure control setpoint value resulting from arbitration   | System Type Configured as VVDA   | Read       | Setpoint Simple with Priority Array |                    | In. of water | 0         | 3.5        | 0                            | Input                | 30352             | 30353             |
| AV-11281          | Dehumidification Control Status                 | Indicates the status of the unit dehumidification capacity   | Hot Gas Reheat is Configured as Installed  | Read       | NA                                  |                    | %            | 0         | 100        | 0                            | Input                | 30354             | 30355             |
| AV-11282          | Supply Fan 1 Maximum RPM Status                 | Active value for Supply Fan 1 Maximum Output RPM point being used for control.   | Always   | Read       | NA                                  |                    | NA           | 0         | 3000       | 0                            | Input                | 30394             | 30395             |
| AV-11283          | Supply Fan Minimum RPM Status                   | Active value for Supply Fan Minimum Output RPM point being used for control.   | Always   | Read       | NA                                  |                    | NA           | 0         | 3000       | 0                            | Input                | 30358             | 30359             |
| AV-11284          | Run Time - Supply Fan 2 (Hours)                 | Supply Fan 2 Runtime   | Tonnage is Configured as 15-25 tons  | Read       | NA                                  |                    | NA           | 0         | 200000     | 0                            | Input                | 30360             | 30361             |
| AV-11285          | Starts - Supply Fan 2                           | Counter for Supply Fan 2 Starts  | Tonnage is Configured as 15-25 tons  | Read       | NA                                  |                    | NA           | 0         | 1500000    | 0                            | Input                | 30362             | 30363             |
| AV-11286          | Motorized Damper Position Setpoint              | Motorized Damper Position Setpoint   | Outside Air is Configured as 0-50% Motorized Damper  | Write      | Setpoint Simple with Priority Array | 10                 | %            | 0         | 50         | 0                            | Holding              | 40188             | 40189             |

**Symbio™ 700 Integration Points List**  
**BACnet®/Modbus**  
**Precedent® and Axiom™ Rooftop WSHP**

Date: 11/08/2024  
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 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name  | Description  | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|--|---|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11287          | Motorized Damper Position Setpoint - Active                      | Active value for Motorized Damper Position Setpoint  | Outside Air is Configured as 0-50% Motorized Damper   | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 50         | 0                            | Input                | 30364             | 30365             |
| AV-11288          | Standby Minimum OA Damper Position at Full Fan Capacity          | Standby Minimum OA Damper Position at Full Fan Capacity  | Outside Air is Configured as 0-100% and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and System Type is Configured as VVZT or CVZT   | Write      | Setpoint Simple with Priority Array | 10                 | %     | 0         | 50         | 0                            | Holding              | 40190             | 40191             |
| AV-11289          | Standby Minimum OA Damper Position at Full Fan Capacity - Active | Active value for Standby Minimum OA Damper Position at Full Fan Capacity point being used for control. | Outside Air is Configured as 0-100% and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and System Type is Configured as VVZT or CVZT   | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 50         | 0                            | Input                | 30366             | 30367             |
| AV-11290          | Standby Minimum OA Damper Position at Mid Fan Capacity           | Standby Minimum OA Damper Position at Mid Fan Capacity   | Outside Air is Configured as 0-100% and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and System Type is Configured as VVZT or CVZT and Indoor Fan Type is Configured as Variable Speed | Write      | Setpoint Simple with Priority Array | 15                 | %     | 0         | 100        | 0                            | Holding              | 40192             | 40193             |
| AV-11291          | Standby Minimum OA Damper Position at Mid Fan Capacity - Active  | Active value for Standby Minimum OA Damper Position at Mid Fan Capacity point being used for control.  | Outside Air is Configured as 0-100% and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and System Type is Configured as VVZT or CVZT and Indoor Fan Type is Configured as Variable Speed | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100        | 0                            | Input                | 30368             | 30369             |

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| Object Identifier | Object Name   | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit  | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|--|------------|-------------------------------------|--------------------|-------|-----------|-------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11292          | Standby Minimum OA Damper Position at Min Fan Capacity          | Standby Minimum OA Damper Position at Min Fan Capacity  | Outside Air is Configured as 0-100% and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and System Type is Configured as VVZT or CVZT and Indoor Fan Type is Configured as Variable Speed or Multi Speed | Write      | Setpoint Simple with Priority Array | 25                 | %     | 0         | 100         | 0                            | Holding              | 40194             | 40195             |
| AV-11293          | Standby Minimum OA Damper Position at Min Fan Capacity - Active | Active value for Standby Minimum OA Damper Position at Min Fan Capacity point being used for control. | Outside Air is Configured as 0-100% and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor and System Type is Configured as VVZT or CVZT and Indoor Fan Type is Configured as Variable Speed or Multi Speed | Read       | Setpoint Simple with Priority Array |                    | %     | 0         | 100         | 0                            | Input                | 30370             | 30371             |
| AV-11294          | Supply Fan 2 Power  | Supply Fan 2 Output Power   | Tonnage is Configured as 15-25 tons  | Read       | NA                                  |                    | KW    | 0         | 120         | 0                            | Input                | 30372             | 30373             |
| AV-11295          | Run Time - Gas Heat Stage 1 (Hours)                             | Gas heat Stage 1 Runtime  | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged   | Read       | NA                                  |                    | NA    | 0         | 200000      | 0                            | Input                | 30374             | 30375             |
| AV-11296          | Starts - Gas Heat Stage 1                                       | Gas heat Stage 1 Starts   | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged   | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30376             | 30377             |
| AV-11297          | Run Time - Gas Heat Stage 2 (Hours)                             | Gas heat Stage 2 Runtime  | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged   | Read       | NA                                  |                    | NA    | 0         | 200000      | 0                            | Input                | 30378             | 30379             |
| AV-11298          | Starts - Gas Heat Stage 2                                       | Gas heat Stage 2 Starts   | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged   | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30380             | 30381             |
| AV-11299          | Return Air Humidity Active                                      | Active Return Air Humidity sensor used for control  | Economizer Type is Configured as Comparative Enthalpy  | Read       | Sensor Complex                      |                    | %     | 0         | 100         | 0                            | Input                | 30382             | 30383             |



# Symbio™ 700 Integration Points List

## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name  | Description   | Configuration Dependency                                       | Read/Write | Arbitration Pattern                 | Reliquish Default | Units        | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|---|--|------------|-------------------------------------|-------------------|--------------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11300          | Return Air Humidity Arbitrator                                 | Arbitrator for Return Air Humidity  | Economizer Type is Configured as Comparative Enthalpy          | Write      | Sensor Complex                      | 65535             | %            | 0         | 100        | 0                            | Holding              | 40196             | 40197             |
| AV-11301          | Return Air Enthalpy Active                                     | The return air enthalpy value being utilized by the unit  | Economizer Type is Configured as Comparative Enthalpy          | Read       | NA                                  |                   | BTUs/pound   | 10        | 96         | 0                            | Input                | 30384             | 30385             |
| AV-11302          | Relief Enable Position Setpoint Status                         | Outdoor air damper position to enable Relief sequence   | Space Pressure Control is Configured                           | Read       | NA                                  |                   | %            | 0         | 100        | 0                            | Input                | 30038             | 30039             |
| AV-11304          | Supply Fan RPM   | Supply Fan 1 RPM  | Tonnage is Configured as 6-25 tons                             | Read       | NA                                  |                   | NA           | 0         | 3000       | 0                            | Input                | 30386             | 30387             |
| AV-11305          | Supply Fan 2 RPM   | Supply Fan 2 RPM  | Tonnage is Configured as 15-25 tons                            | Read       | NA                                  |                   | NA           | 0         | 3000       | 0                            | Input                | 30388             | 30389             |
| AV-11306          | Supply Fan 2 Maximum RPM Status                                | Active value for Supply Fan 2 Maximum Output RPM point being used for control.  | Tonnage is Configured as 15-25 tons                            | Read       | NA                                  |                   | NA           | 0         | 3000       | 0                            | Input                | 30396             | 30397             |
| AV-11307          | Discharge Air Heating Setpoint (Target) - Active               | Active value for Discharge Air Heating Setpoint (Target) point being used for control.  | VVZT and modulating gas heat installed                         | Read       | Setpoint Simple with Priority Array |                   | °F           | 50        | 150        | 0                            | Input                | 30306             | 30307             |
| AV-11308          | Duct Static Pressure Setpoint High Limit Setpoint BAS          | Duct Static Pressure Setpoint High Limit is used to limit fan speed prevent damage to equipment   | System Type Configured as VVDA                                 | Write      | Setpoint Simple with Priority Array | 3.5               | In. of water | 1.2       | 4.7        | 0                            | Holding              | 40202             | 40203             |
| AV-11309          | Duct Static Pressure Setpoint High Limit Setpoint BAS - Active | Active Duct Static Pressure Setpoint High Limit is used to limit fan speed prevent damage to equipment  | System Type Configured as VVDA                                 | Read       | Setpoint Simple with Priority Array |                   | In. of water | 1.2       | 4.7        | 0                            | Input                | 30390             | 30391             |
| AV-11314          | Comfort Purge Interval (minutes)                               | User adjustable setpoint used to set the amount of time the compressor will run on the reheat circuit before entering Comfort Purge Cycle.                    | Hot Gas Reheat is configured as Installed                      | Write      | NA                                  | 90                | NA           | 60        | 120        | 0                            | Holding              | 40246             | 40247             |
| AV-11315          | Reheat Purge Interval (minutes)                                | User adjustable setpoint used to set the amount of time the compressors on the reheat circuit will operate in Reheat mode before entering Reheat Purge Cycle. | Hot Gas Reheat is configured as Installed                      | Write      | NA                                  | 120               | NA           | 60        | 180        | 0                            | Holding              | 40248             | 40249             |
| AV-11316          | Reheat P-Gain 1  | Proportional gain for 1st loop Reheat PI controller (%/F)   | Space Controller and Hot Gas Reheat is configured as Installed | Write      | NA                                  | 4                 | %            | 0.1       | 100        | 0                            | Holding              | 40222             | 40223             |



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| Object Identifier | Object Name                                    | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|---|---|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11317          | Reheat Reset Time - 1                          | Reset time for 1st loop Reheat PI controller (second)   | Space Controller and Hot Gas Reheat is configured as Installed                          | Write      | NA                                  | 1200               | NA    | 10        | 3600       | 0                            | Holding              | 40226             | 40227             |
| AV-11318          | Reheat P-Gain 2                                | Proportional gain for 2nd loop Reheat PI controller (%/F)   | Space Controller and Hot Gas Reheat is configured as Installed                          | Write      | NA                                  | 1                  | %     | 0.1       | 100        | 0                            | Holding              | 40228             | 40229             |
| AV-11319          | Reheat Reset Time - 2                          | Reset time for discharge air Reheat PI controller (second)  | Space Controller and Hot Gas Reheat is configured as Installed                          | Write      | NA                                  | 100                | NA    | 10        | 3600       | 0                            | Holding              | 40232             | 40233             |
| AV-11320          | Space Dew Point Setpoint BAS                   | User adjustable setpoint used to set the maximum Space Dew Point Setpoint in Dew Point Humidity Control.            | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed | Write      | NA                                  | 60                 | °F    | 40        | 80         | 0                            | Holding              | 40234             | 40235             |
| AV-11321          | Dew Point Setpoint Offset BAS                  | User adjustable setpoint used to set the maximum Space Dew Point Setpoint Offset in Dew Point Humidity Control.     | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed | Write      | NA                                  | 5                  | °F    | 2         | 20         | 0                            | Holding              | 40238             | 40239             |
| AV-11323          | Outdoor Air Dew Point Setpoint BAS             | User adjustable setpoint used to set the Outdoor Air Dew Point Setpoint in Dew Point Humidity Control.              | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed | Write      | NA                                  | 60                 | °F    | 40        | 80         | 0                            | Holding              | 40240             | 40241             |
| AV-11326          | Space Dehumidification Setpoint Offset BAS     | Setting for unit to use for applying a % offset to the space relative humidity setpoint.                            | Hot Gas Reheat is Configured as Installed   | Write      | NA                                  | 10                 | %     | 2         | 20         | 0                            | Holding              | 40242             | 40243             |
| AV-11327          | Space Dehumidification Setpoint BAS            | Setting for unit to use to control dehumidification.  | Hot Gas Reheat is Configured as Installed   | Write      | NA                                  | 60                 | %     | 40        | 60         | 0                            | Holding              | 40244             | 40245             |
| AV-11329          | Space Dehumidification Unoccupied Setpoint BAS | Used to define the (occupied) space dehumidification setpoint   | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed | Write      | Setpoint Simple with Priority Array | 65                 | %     | 40        | 65         | 0                            | Holding              | 40258             | 40259             |
| AV-11330          | Space Dew Point Unoccupied Setpoint BAS        | User adjustable setpoint used to set the maximum Space Dew Point Unoccupied Setpoint in Dew Point Humidity Control. | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed | Write      | NA                                  | 60                 | °F    | 40        | 80         | 0                            | Holding              | 40236             | 40237             |

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## BACnet®/Modbus

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Firmware Release: V7.00.0011

Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                 | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|--|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11331          | Compressor Dehumid P-Gain 2                 | Proportional Gain for 2nd loop Compressor Dehumid PI controller (%/deg F)                             | Hot Gas Reheat is configured as Installed  | Write      | NA                                  | 2                  | °F    | 0.1       | 80         | 0                            | Holding              | 40250             | 40251             |
| AV-11332          | Compressor Dehumid P-Gain 1                 | Proportional gain for 1st loop Compressor Dehumid PI controller (%/F)                                 | Hot Gas Reheat is configured as Installed  | Write      | NA                                  | 3                  | °F    | 0.1       | 80         | 0                            | Holding              | 40252             | 40253             |
| AV-11333          | Compressor Dehumid Reset Time - 2 (seconds) | Reset time for 2nd loop compressor Dehumid PI controller (second)                                     | Hot Gas Reheat is configured as Installed  | Write      | NA                                  | 100                | NA    | 1         | 1000       | 0                            | Holding              | 40230             | 40231             |
| AV-11334          | Compressor Dehumid Reset Time - 1 (seconds) | Reset time for 1st loop Dehumid PI controller (second)  | Hot Gas Reheat is configured as Installed  | Write      | NA                                  | 1000               | NA    | 10        | 3600       | 0                            | Holding              | 40224             | 40225             |
| AV-11335          | Pre Cool Setpoint BAS                       | Defines the space temp above which Pre Cool is enabled  | Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor or System Type is Configured as VVDA | Write      | Setpoint Simple with Priority Array | 74                 | °F    | 50        | 90         | 0                            | Holding              | 40254             | 40255             |
| AV-11336          | Pre Cool Setpoint BAS - Active              | Active value for Pre Cool Setpoint BAS point being used for control.                                  | Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor or System Type is Configured as VVDA | Read       | Setpoint Simple with Priority Array |                    | °F    | 50        | 90         | 0                            | Input                | 30404             | 30405             |
| AV-11337          | Refrigerant Target Setpoint Active          | Indicates the refrigerant target setpoint actively being used for dehumidification control.           | Hot Gas Reheat is Configured as installed  | Read       | NA                                  |                    | °F    | 39        | 200        | 0                            | Input                | 30406             | 30407             |
| AV-11338          | Space Dew Point Setpoint Active             | Indicates the Occupied Space Dew Point Setpoint actively being used for dehumidification control.     | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed                        | Read       | NA                                  |                    | °F    | 40        | 80         | 0                            | Input                | 30410             | 30411             |
| AV-11340          | Dew Point Setpoint Offset BAS - Active      | Indicates the Dew Point Setpoint Offset actively being used for dehumidification control.             | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed                        | Read       | NA                                  |                    | °F    | 2         | 20         | 0                            | Input                | 30414             | 30415             |
| AV-11341          | Outdoor Air Dew Point Setpoint BAS - Active | Indicates the Outdoor Air Dew Point Setpoint Offset actively being used for dehumidification control. | Hot Gas Reheat is configured as Installed and Humidistat is Configured as Not installed                        | Read       | NA                                  |                    | °F    | 40        | 80         | 0                            | Input                | 30416             | 30417             |

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**Precedent® and Axiom™ Rooftop WSHP**

Date: 11/08/2024  
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 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                 | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|---|---|------------|-------------------------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11342          | Unoccupied Dehumidification Timer           | User adjustable time the space relative humidity is controlled <65% in unoccupied mode.         | Hot Gas Reheat is Configured as installed                                   | Write      | NA                                  | 720                | NA    | 0         | 720        | 0                            | Holding              | 40270             | 40271             |
| AV-11343          | Heating Reset Amount                        | Discharge air heating amount to reset between start and end temperatures                        | System Type is Configured as VVDA and Primary Heat is Configured.           | Write      | NA                                  | 5                  | Δ°F   | 0         | 20         | 0                            | Holding              | 40264             | 40265             |
| AV-11344          | VAV Box Stroke Timer                        | User adjustable VAV Box Stroke time that should be allowed for full airflow modes of operation. | System Type is Configured as VVDA   | Write      | NA                                  | 360                | NA    | 0         | 600        | 0                            | Holding              | 40268             | 40269             |
| AV-11346          | Economizer Cooling P-Gain (%/F)             | Proportional gain for VVDA systems Econ PI controller (%/F).                                    | System Type Configured as VVDA and Outside Air is Configured as 0-100%      | Write      | NA                                  | 2                  | %     | 0.1       | 100        | 0                            | Holding              | 40272             | 40273             |
| AV-11347          | Economizer Cooling Reset Time (Seconds)     | Reset time for VVDA systems Econ PI controller (in seconds).                                    | System Type Configured as VVDA and Outside Air is Configured as 0-100%      | Write      | NA                                  | 100                | NA    | 10        | 3600       | 0                            | Holding              | 40274             | 40275             |
| AV-11348          | Economizer Cooling P-Gain 2 (%/F)           | Proportional gain for 2nd loop Econ PI controller (%/F), for CVZT/VVZT systems.                 | System Type Configured as CVZT/VVZT and Outside Air is Configured as 0-100% | Write      | NA                                  | 2                  | %     | 0.1       | 100        | 0                            | Holding              | 40276             | 40277             |
| AV-11349          | Economizer Cooling Reset Time - 2 (Seconds) | Reset time for 2nd loop Econ PI controller (seconds), for CVZT/VVZT systems.                    | System Type Configured as CVZT/VVZT and Outside Air is Configured as 0-100% | Write      | NA                                  | 100                | NA    | 10        | 3600       | 0                            | Holding              | 40278             | 40279             |
| AV-11350          | Auxiliary Heating P-Gain - 1 (%/F)          | Space control proportional gain for 1st loop Heating PI controller (%/F)                        | System type VVZT with Modulating Gas Auxiliary Heat Installed               | Write      | NA                                  | 2                  | %     | 0.1       | 100        | 0                            | Holding              | 40280             | 40281             |
| AV-11351          | Auxiliary Heating Reset Time - 1 (seconds)  | Space control reset Time for 1st loop Auxiliary Heating PI Controller (in seconds)              | System type VVZT with Modulating Gas Auxiliary Heat Installed               | Write      | NA                                  | 1000               | NA    | 10        | 3600       | 0                            | Holding              | 40282             | 40283             |
| AV-11352          | Auxiliary Heating P-Gain - 2 (%/F)          | Space control proportional gain for 2nd loop Heating PI controller (%/F)                        | System type VVZT with Modulating Gas Auxiliary Heat Installed               | Write      | NA                                  | 1                  | %     | 0.1       | 100        | 0                            | Holding              | 40284             | 40285             |
| AV-11353          | Auxiliary Heating Reset Time - 2 (seconds)  | Space control reset Time for 2nd loop Auxiliary Heating PI Controller (in seconds)              | System type VVZT with Modulating Gas Auxiliary Heat Installed               | Write      | NA                                  | 100                | NA    | 10        | 3600       | 0                            | Holding              | 40286             | 40287             |
| AV-11354          | Discharge Air Heating Setpoint Low Limit    | Discharge Air Heating Setpoint Low Limit (deg F)  | System type VVZT with Modulating Gas Auxiliary Heat Installed               | Write      | Setpoint Simple with Priority Array | 50                 | °F    | 50        | 150        | 0                            | Holding              | 40288             | 40289             |

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## BACnet®/Modbus

### Precedent® and Axiom™ Rooftop WSHP

Date: 11/08/2024

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| Object Identifier | Object Name  | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Units | Low Limit | High Limit  | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|--|--|--|------------|-------------------------------------|--------------------|-------|-----------|-------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11355          | Discharge Air Heating Setpoint Low Limit - Active    | Active value for Discharge Air Heating Setpoint Low Limit point being used for control.    | System type VVZT with Modulating Gas Auxiliary Heat Installed  | Read       | Setpoint Simple with Priority Array |                    | °F    | 50        | 150         | 0                            | Input                | 30432             | 30433             |
| AV-11356          | Discharge Air Cooling Setpoint Status                | Indicates actual discharge air cooling setpoint value being used for control               | System Type is Configured as VVDA  | Read       | NA                                  |                    | °F    | -40       | 200         | 0                            | Input                | 30434             | 30435             |
| AV-11357          | Discharge Air Heating Setpoint Status                | Indicates actual discharge air heating setpoint value being used for control               | System Type is Configured as VVDA and Primary Heating Source is Installed  | Read       | NA                                  |                    | °F    | -40       | 200         | 0                            | Input                | 30436             | 30437             |
| AV-11358          | Discharge Air Reheating Setpoint High Limit - Active | Active value for Discharge Air Reheating Setpoint High Limit point being used for control. | Hot Gas Reheat is Configured as Installed and Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor | Read       | Setpoint Simple with Priority Array |                    | °F    | 50        | 150         | 0                            | Input                | 30438             | 30439             |
| AV-11359          | Discharge Air Reheating Setpoint Low Limit - Active  | Active value for Discharge Air Reheating Setpoint Low Limit point being used for control.  | Hot Gas Reheat is Configured as Installed and Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor | Read       | Setpoint Simple with Priority Array |                    | °F    | 40        | 150         | 0                            | Input                | 30440             | 30441             |
| AV-11360          | Discharge Air Reheating Setpoint High Limit          | Discharge Air Reheating Setpoint High Limit (deg F)  | Hot Gas Reheat is Configured as Installed and Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor | Write      | Setpoint Simple with Priority Array | 104                | °F    | 50        | 150         | 0                            | Holding              | 40292             | 40293             |
| AV-11361          | Discharge Air Reheating Setpoint Low Limit           | Discharge Air Reheating Setpoint Low Limit (deg F)   | Hot Gas Reheat is Configured as Installed and Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor | Write      | Setpoint Simple with Priority Array | 50                 | °F    | 40        | 150         | 0                            | Holding              | 40294             | 40295             |
| AV-11362          | Run Time - Gas Heat Manifold 1 Burner 1 (Hours)      | Gas heat runtime   | Modulating gas heat is configured  | Read       | NA                                  |                    | NA    | 0         | 200000      | 0                            | Input                | 30442             | 30443             |
| AV-11363          | Starts - Gas Heat Manifold 1 Burner 1                | Gas heat starts  | Modulating gas heat is configured  | Read       | NA                                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30444             | 30445             |
| AV-11364          | Run Time - Gas Heat Manifold 1 Burner 2 (Hours)      | Gas heat runtime   | Modulating gas heat is configured  | Read       | NA                                  |                    | NA    | 0         | 200000      | 0                            | Input                | 30446             | 30447             |

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 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name   | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern | Relinquish Default | Units | Low Limit | High Limit  | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|--|--|------------|---------------------|--------------------|-------|-----------|-------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11365          | Starts - Gas Heat Manifold 1 Burner 2                         | Gas heat starts  | Modulating gas heat is configured  | Read       | NA                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30448             | 30449             |
| AV-11368          | Auxiliary Heating P-Gain Modulating Gas Staging (%/F)         | Proportional gain for 2nd loop-Staging control for Modulating Gas Heating  | Modulating gas heat is configured  | Write      | NA                  | 5                  | %     | 0.1       | 100         | 0                            | Holding              | 40306             | 40307             |
| AV-11369          | Auxiliary Heating Reset Time Modulating Gas Staging (seconds) | Reset Time for 2nd loop-Staging control for Modulating Gas Heating   | Modulating gas heat is configured  | Write      | NA                  | 80                 | NA    | 10        | 3600        | 0                            | Holding              | 40308             | 40309             |
| AV-11375          | Run Time - Circuit 1 Condenser Defrost (Hours)                | Circuit 1 Condenser Defrost Run Time   | Heat Pump Systems  | Read       | NA                  |                    | NA    | 0         | 200000      | 0                            | Input                | 30454             | 30455             |
| AV-11376          | Starts - Circuit 1 Condenser Defrost                          | Circuit 1 Condenser Defrost Starts   | Heat Pump Systems  | Read       | NA                  |                    | NA    | 0         | 150000<br>0 | 0                            | Input                | 30456             | 30457             |
| AV-11383          | Condenser Fan Capacity  | Indicates the status of the total unit condenser fan capacity.   | Always   | Read       | NA                  |                    | %     | 0         | 100         | 0                            | Input                | 30464             | 30465             |
| AV-11384          | Compressor Cooling Modulating P-Gain - 2 (%/F)                | Proportional gain for 2nd loop modulating compressor cooling PI controller (%/F)   | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor | Write      | NA                  | 2                  | %     | 0.1       | 100         | 0                            | Holding              | 40318             | 40319             |
| AV-11385          | Compressor Cooling Modulating Reset Time - 2 (seconds)        | Reset time for 2nd loop modulating compressor cooling PI controller (second)   | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor | Write      | NA                  | 100                | NA    | 1         | 1000        | 0                            | Holding              | 40320             | 40321             |
| AV-11386          | Compressor Cooling Modulating P-Gain (%/F)                    | Proportional gain for discharge air control - modulating compressor cooling PI controller (%/F)                            | System Type Configured as VVDA   | Write      | NA                  | 1                  | %     | 0.1       | 100         | 0                            | Holding              | 40322             | 40323             |
| AV-11387          | Compressor Cooling Modulating Reset Time (seconds)            | Reset time for discharge air controls - modulating compressor cooling PI controller (seconds)                              | System Type Configured as VVDA   | Write      | NA                  | 100                | NA    | 10        | 3600        | 0                            | Holding              | 40324             | 40325             |
| AV-11388          | Control State   | Control State Status.  | Always   | Read       | NA                  |                    | NA    | 0         | 100         | 0                            | Input                | 30466             | 30467             |
| AV-11389          | Demand Defrost Initiate Delta Temperature                     | When the difference between coil temperature and outdoor temperature exceeds this value, demand defrost will be initiated. | Heat Pump Systems  | Read       | NA                  |                    | Δ°F   | 0         | 100         | 0                            | Input                | 30476             | 30477             |

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## BACnet®/Modbus

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| Object Identifier | Object Name   | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default  | Units | Low Limit           | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|---|--|--|------------|-------------------------------------|---------------------|-------|---------------------|------------|------------------------------|----------------------|-------------------|-------------------|
| AV-11392          | Discharge Air Cooling Setpoint Y1                           | Used to request discharge air temp cooling setpoint value.                       | Configured for Conventional Thermostat control and Thermostat Control Method Request is set to Enhanced. | Write      | Setpoint Simple with Priority Array | 60                  | °F    | 40                  | 80         | 0                            | Holding              | 40326             | 40327             |
| AV-11393          | Discharge Air Cooling Setpoint Y1 - Active                  | Active value for Discharge Air Cooling Setpoint Y1 point being used for control. | Configured for Conventional Thermostat control and Thermostat Control Method Request is set to Enhanced. | Read       | Setpoint Simple with Priority Array |                     | °F    | 40                  | 80         | 0                            | Input                | 30482             | 30483             |
| AV-11394          | Discharge Air Cooling Setpoint Y2                           | Used to request discharge air temp cooling setpoint value.                       | Configured for Conventional Thermostat control and Thermostat Control Method Request is set to Enhanced. | Write      | Setpoint Simple with Priority Array | 50                  | °F    | 40                  | 80         | 0                            | Holding              | 40328             | 40329             |
| AV-11395          | Discharge Air Cooling Setpoint Y2 - Active                  | Active value for Discharge Air Cooling Setpoint Y2 point being used for control. | Configured for Conventional Thermostat control and Thermostat Control Method Request is set to Enhanced. | Read       | Setpoint Simple with Priority Array |                     | °F    | 40                  | 80         | 0                            | Input                | 30484             | 30485             |
| AV-11398          | Dehumidification Disable Space Temperature Setpoint         | Value used to disable Dehumidification when compared to the Space Temperature.   | Space Controller and Hot Gas Reheat is configured as Installed   | Write      | NA                                  | 68                  | °F    | 60                  | 90         | 0                            | Input                | 30490             | 30491             |
| AV-11399          | Supply Fan Maximum Speed Setpoint Heating                   | Maximum supply fan speed command Heating.  | Indoor Fan Type Configured as Multi Speed or Variable Speed  | Write      | NA                                  | *See <sup>(f)</sup> | %     | *See <sup>(f)</sup> | 100        | 0                            | Holding              | 40330             | 40331             |
| AV-11400          | Low Saturated Suction Refrig Temp Abnormal Deviation Offset | Low Saturated Suction Refrig Temp Abnormal Deviation Offset                      | 3-5 tons, High Efficiency (HE) Heat Pump configurations  | Write      | NA                                  | 15                  | Δ°F   | -100                | 200        | 0                            | Holding              | 40332             | 40333             |
| AV-11401          | Low Saturated Suction Refrig Temp Coefficient 1             | Low Saturated Suction Refrig Temp Coefficient 1                                  | 3-5 tons, High Efficiency (HE) Heat Pump configurations  | Write      | NA                                  | 7.73                | NA    | -100                | 100        | 0                            | Holding              | 40334             | 40335             |
| AV-11402          | Low Saturated Suction Refrig Temp Coefficient 2             | Low Saturated Suction Refrig Temp Coefficient 2                                  | 3-5 tons, High Efficiency (HE) Heat Pump configurations  | Write      | NA                                  | 0.19                | NA    | 0                   | 100        | 0                            | Holding              | 40336             | 40337             |

<sup>(a)</sup> Supply Fan Maximum speed relinquish default values are based on unit size. Refer to Precedent Application Guide ACC-APG002\* for additional details.

<sup>(b)</sup> For units configured as VVZT or CVZT, the factory relinquish default values are: Compressor Cooling P-Gain (%/F) = 80 and Compressor Cooling Reset Time (seconds) = 500.

For units configured to operate using a Conventional Thermostat, the factory relinquish default values are: Compressor Cooling P-Gain (%/F) = 1 and Compressor Cooling Reset Time (seconds) = 80.



| Object Identifier | Object Name | Description | Configuration Dependency | Read/Write | Arbitration Pattern | Relinquish Default | Units | Low Limit | High Limit | Heartbeat Interval (seconds) | Modbus Register Type | Modbus Register 1 | Modbus Register 2 |
|-------------------|-------------|-------------|--------------------------|------------|---------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|
|-------------------|-------------|-------------|--------------------------|------------|---------------------|--------------------|-------|-----------|------------|------------------------------|----------------------|-------------------|-------------------|

For units configured as VVDA, the factory relinquish default values are: Compressor Cooling P-Gain (%/F) = 5 and Compressor Cooling Reset Time (seconds) = 80.

<sup>(c)</sup> For units configured as VVZT or CVZT, the factory relinquish default values are: Compressor Heating P-Gain (%/F) = 80 and Compressor Heating Reset Time (seconds) = 500.

For units configured as VVDA, the factory relinquish default values are: Compressor Cooling P-Gain (%/F) = 5 and Compressor Cooling Reset Time (seconds) = 80.

<sup>(d)</sup> For units equipped with Electric Heat and configured as VVZT or CVZT, the factory relinquish default values are: Auxiliary Heating P-Gain (%/F) = 80 and Auxiliary Heating Reset Time (seconds) = 500.

For units equipped with Electric Heat and configured as VVDA, the factory relinquish default values are: Auxiliary Heating P-Gain (%/F) = 5 and Auxiliary Heating Reset Time (seconds) = 80.

For units equipped with Staged Gas Heat and configured as VVZT or CVZT, the factory default values are: Auxiliary Heating P-Gain (%/F) = 40 and Auxiliary Heating Reset Time (seconds) = 500.

For units equipped with Staged Gas Heat and configured as VVDA, the factory relinquish default values are: Auxiliary Heating P-Gain (%/F) = 5 and Auxiliary Heating Reset Time (seconds) = 80.

For units equipped with Modulating Gas Heat and configured as VVDA, the factory relinquish default values are: Auxiliary Heating P-Gain (%/F) = 5 and Auxiliary Heating Reset Time (seconds) = 100.

<sup>(e)</sup> For 410A units, low limit for Heat Pump Heating Lockout Setpoint is -18°F

For 454B units, low limit for Heat Pump Heating Lockout Setpoint is -8°F

<sup>(f)</sup> Supply Fan Minimum speed relinquish default and low limit values are based on unit size. Refer to Precedent Application Guide ACC-APG002\* for additional details.



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 Firmware Release: V7.00.0011  
 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                              | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern | Object States                                      | Polarity | Modbus Register Type | Modbus Register 1 |
|-------------------|--|--|--|------------|---------------------|--|----------|----------------------|-------------------|
| BI-10105          | FDD: Unit Economizing When It Should Not | Diagnostic: Unit Economizing When It Should Not                          | Outside Air is Configured as 0-100% Economizer   | Read       | NA                  | false = Inactive<br>true = Active                  | Normal   | Input                | 33010             |
| BI-10106          | FDD: Unit Not Economizing When It Should | Diagnostic: Unit Not Economizing When It Should                          | Outside Air is Configured as 0-100% Economizer   | Read       | NA                  | false = Inactive<br>true = Active                  | Normal   | Input                | 33011             |
| BI-10107          | FDD: Excessive Outdoor Air               | Diagnostic: Excessive Air  | Outside Air is Configured as 0-100% Economizer   | Read       | NA                  | false = Inactive<br>true = Active                  | Normal   | Input                | 33012             |
| BI-10108          | FDD: Outdoor Air Damper Not Modulating   | Diagnostic: Damper NOT Modulating  | Outside Air is Configured as 0-100% Economizer   | Read       | NA                  | false = Inactive<br>true = Active                  | Normal   | Input                | 33013             |
| BI-10121          | Relief Fan Output Status                 | Indicates the status of the Relief fan output on the controller          | Space Pressure Control is Configured   | Read       | NA                  | false = Off<br>true = On                           | Normal   | Input                | 33014             |
| BI-10143          | VAV Box Command                          | Indicates whether the associated VAV boxes should be AUTO or forced open | System Type is Configured as VVDA  | Read       | NA                  | false = Off<br>true = On                           | Normal   | Input                | 33015             |
| BI-10170          | Condensate Overflow Input                | Indicates the status of the condensate overflow input                    | Condensate Overflow Switch is Configured as Installed  | Read       | NA                  | false = Open<br>true = Closed                      | Normal   | Input                | 33017             |
| BI-10172          | Occupancy Input                          | Indicates the status of the wired occupancy input                        | Space Controller is Configured as Single Setpoint or Dual Setpoint Sensor with/without Outside Air Configured as 0-100% or System Type is Configured as VVDA | Read       | Sensor Complex      | false = Occupied<br>true = Unoccupied              | Normal   | Input                | 33018             |
| BI-10210          | Equipment Shutdown Input Status          | Indicates the status of the equipment shutdown function of the unit      | Always   | Read       | NA                  | false = Equipment Run<br>true = Equipment Shutdown | Normal   | Input                | 33019             |
| BI-10211          | External Auto Stop Input Status          | Indicates the status of the externally-wired auto/stop input             | External Auto/Stop Configured as Installed   | Read       | NA                  | false = Stop<br>true = Auto                        | Reverse  | Input                | 33020             |
| BI-10219          | Economizer Airside Status                | Indicates the status of airside economizing                              | Outside Air is Configured as 0-100%  | Read       | NA                  | false = Inactive<br>true = Active                  | Normal   | Input                | 33021             |
| BI-10226          | Supply Fan Status                        | Indicates the status of the supply fan output of the controller          | Always   | Read       | NA                  | false = Off<br>true = On                           | Normal   | Input                | 33022             |
| BI-11100          | Compressor 1 Command Status              | Compressor 1 Run Command Status  | Efficiency is not Configured as High   | Read       | NA                  | false = Off<br>true = On                           | Normal   | Input                | 33023             |
| BI-11101          | Circuit 1 LPC Status                     | Circuit 1 LPC Input Status   | Always   | Read       | NA                  | false = Open<br>true = Closed                      | Normal   | Input                | 33024             |
| BI-11102          | Compressor 1 Proving Status              | Status of input for monitoring Compressor 1 proof of operation circuit.  | Always   | Read       | NA                  | false = Not Proved<br>true = Proved                | Normal   | Input                | 33025             |
| BI-11103          | Compressor 2 Command Status              | Compressor 2 Run Command Status  | Multi-Compressor Systems   | Read       | NA                  | false = Off<br>true = On                           | Normal   | Input                | 33026             |
| BI-11105          | Compressor 2 Proving Status              | Status of input for monitoring Compressor 2 proof of operation circuit.  | Multi-Compressor Systems   | Read       | NA                  | false = Not Proved<br>true = Proved                | Normal   | Input                | 33028             |
| BI-11109          | Compressor 1 Unloader Command Status     | Compressor 1 Unloader Command Status                                     | Unloading Compressors Installed  | Read       | NA                  | false = Off<br>true = On                           | Normal   | Input                | 33032             |
| BI-11111          | Compressor 2 Unloader Command Status     | Compressor 2 Unloader Command Status                                     | Unloading Compressors Installed  | Read       | NA                  | false = Off<br>true = On                           | Normal   | Input                | 33033             |



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| Object Identifier | Object Name                            | Description   | Configuration Dependency                              | Read/Write | Arbitration Pattern | Object States                         | Polarity | Modbus Register Type | Modbus Register 1 |
|-------------------|--|---|---|------------|---------------------|---------------------------------------|----------|----------------------|-------------------|
| BI-11113          | Demand Limit Input                     | Configurable, hardwired input to command Demand Limit                       | Demand Management Configured as Demand Limit          | Read       | Setpoint Simple BAS | false = Not Limited<br>true = Limited | Normal   | Input                | 33035             |
| BI-11114          | Demand Shed Input                      | Configurable, hardwired input to command Demand Shed                        | Demand Management Configured as Demand Shed           | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33036             |
| BI-11115          | Phase Monitor Status                   | Status of local Phase Monitor Input   | Always  | Read       | NA                  | false = Tripped<br>true = Okay        | Normal   | Input                | 33037             |
| BI-11116          | Condenser Fan 1 Command Status         | Condenser Fan 1 Run Command Status  | Always  | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33038             |
| BI-11117          | Condenser Fan 2 Command Status         | Condenser Fan 2 Run Command Status  | Dual Condenser Fan Systems                            | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33039             |
| BI-11118          | Switchover Valve 1 Command Status      | Status of Switchover Valve Command for HP Circuit 1                         | Heat Pump Systems                                     | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33040             |
| BI-11120          | Thermostat G Input                     | Thermostat Fan Request  | Space Controller Configured as Conventional TStat     | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33042             |
| BI-11121          | Thermostat W1/O Input                  | Thermostat Heat Stage 1 Request or Thermostat Heat/Cool Mode Request for HP | Space Controller Configured as Conventional TStat     | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33043             |
| BI-11122          | Thermostat W2 Input                    | Thermostat Heat Stage 2 Request (or Emergency Heat)                         | Space Controller Configured as Conventional TStat     | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33044             |
| BI-11123          | Thermostat X2 Input                    | Thermostat Emergency Heat Request   | Space Controller Configured as Conventional TStat     | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33045             |
| BI-11124          | Thermostat Y1 Input                    | Thermostat Compressor Stage 1 Request                                       | Space Controller Configured as Conventional TStat     | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33046             |
| BI-11125          | Thermostat Y2 Input                    | Thermostat Compressor Stage 2 Request                                       | Space Controller Configured as Conventional TStat     | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33047             |
| BI-11126          | Supply Fan Proving Input Status        | Indicates the status of the supply fan proving input on the controller      | Cabinet Size is A0                                    | Read       | NA                  | false = Not Proved<br>true = Proved   | Normal   | Input                | 33048             |
| BI-11127          | FroStat Input                          | Status of Hardwired Frostat Input   | FroStat Configured as Installed                       | Read       | NA                  | false = Inactive<br>true = Active     | Reverse  | Input                | 33049             |
| BI-11128          | Electric Heat Stage 1 Status           | Status of Electric Heat Stage 1 command                                     | One or more stages of Staged Electric Heat configured | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33050             |
| BI-11129          | Electric Heat Stage 2 Status           | Status of Electric Heat Stage 2 command                                     | Two or more stages of Staged Electric Heat configured | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33051             |
| BI-11130          | Clogged Filter Input                   | Status of Hardwired Clogged Filter Input                                    | Clogged Filter Configured as Installed                | Read       | NA                  | false = Clean<br>true = Dirty Filter  | Normal   | Input                | 33052             |
| BI-11133          | Ventilation Override Exhaust Status    | Hardwired input VOM Exhaust   | Ventilation Override Configured as Installed          | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33054             |
| BI-11134          | Ventilation Override Pressurize Status | Hardwired input VOM Pressurize  | Ventilation Override Configured as Installed          | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33055             |
| BI-11135          | Ventilation Override Purge Status      | Hardwired input VOM Purge   | Ventilation Override Configured as Installed          | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33056             |

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| Object Identifier | Object Name   | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern | Object States                         | Polarity | Modbus Register Type | Modbus Register 1 |
|-------------------|---|---|---|------------|---------------------|---------------------------------------|----------|----------------------|-------------------|
| BI-11143          | Reheat Humidistat Input                             | Hardwired input to support dehumidification requests on hot gas reheat units.       | Humidistat is Configured as Installed   | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33059             |
| BI-11149          | Fan Mode - Air-Fi                                   | Supply Fan Mode as set from a wireless sensor connected to the controller.          | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensors and System Type is Configured as VVZT or CVZT | Read       | NA                  | false = Cycling<br>true = Continuous  | Normal   | Input                | 33064             |
| BI-11150          | Occupancy Input - Air-Fi                            | Local Occupancy Input as detected by a wireless sensor connected to the controller. | Space Controller not Configured as Conventional TStat   | Read       | Sensor Complex      | false = Occupied<br>true = Unoccupied | Normal   | Input                | 33065             |
| BI-11151          | Fan Mode Input                                      | Supply Fan Mode as set from a wired sensor connected to the controller.             | Space Controller not Configured as Conventional TStat   | Read       | NA                  | false = Cycling<br>true = Continuous  | Normal   | Input                | 33066             |
| BI-11152          | Supply Air Smoke Detector Status                    | Status of Hardwired Supply Air Smoke Detector Input                                 | Supply Air Smoke Detector Configured as Installed   | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33067             |
| BI-11153          | Return Air Smoke Detector Status                    | Status of Hardwired Return Air Smoke Detector Input                                 | Return Air Smoke Detector Configured as Installed   | Read       | NA                  | false = Open<br>true = Closed         | Normal   | Input                | 33068             |
| BI-11154          | Gas Heat Stage 1 Status                             | Status of gas heat Stage 1  | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged  | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33069             |
| BI-11155          | Gas Heat Stage 2 Status                             | Status of gas heat Stage 2  | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged  | Read       | NA                  | false = Off<br>true = On              | Normal   | Input                | 33070             |
| BI-11156          | Diagnostic: ERM Supply Fan Locked Motor - 1         | Diagnostic: ERM Supply Fan Locked Motor - 1   | Tonnage is Configured as 6-25 tons  | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33071             |
| BI-11157          | Diagnostic: ERM Supply Fan Locked Motor - 2         | Diagnostic: ERM Supply Fan Locked Motor - 2   | Tonnage is Configured as 15-25 tons   | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33072             |
| BI-11158          | Diagnostic: ERM Supply Fan Motor Overheated - 1     | Diagnostic: ERM Supply Fan Motor Overheated - 1                                     | Tonnage is Configured as 6-25 tons  | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33073             |
| BI-11159          | Diagnostic: ERM Supply Fan Motor Overheated - 2     | Diagnostic: ERM Supply Fan Motor Overheated - 2                                     | Tonnage is Configured as 15-25 tons   | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33074             |
| BI-11160          | Diagnostic: ERM Supply Fan Power Mod Overheated - 1 | Diagnostic: ERM Supply Fan Power Mod Overheated - 1                                 | Tonnage is Configured as 6-25 tons  | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33075             |
| BI-11161          | Diagnostic: ERM Supply Fan Power Mod Overheated - 2 | Diagnostic: ERM Supply Fan Power Mod Overheated - 2                                 | Tonnage is Configured as 15-25 tons   | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33076             |
| BI-11162          | Diagnostic: ERM Fault Supply Fan - 1                | Diagnostic: ERM Fault Supply Fan - 1  | Tonnage is Configured as 6-25 tons  | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33077             |
| BI-11163          | Diagnostic: ERM Fault Supply Fan - 2                | Diagnostic: ERM Fault Supply Fan - 2  | Tonnage is Configured as 15-25 tons   | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33078             |
| BI-11164          | Diagnostic: IG1 Module Lockout                      | Diagnostic: IG1 Module Lockout  | Primary Heating Source is Configured as Gas   | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33079             |
| BI-11165          | Diagnostic: IG1 Heating High Temp Limit Open        | Diagnostic: IG1 Heating High Temp Limit Open  | Primary Heating Source is Configured as Gas   | Read       | NA                  | false = Inactive<br>true = Active     | Normal   | Input                | 33080             |

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| Object Identifier | Object Name  | Description  | Configuration Dependency                    | Read/Write | Arbitration Pattern | Object States                     | Polarity | Modbus Register Type | Modbus Register 1 |
|-------------------|--|--|---|------------|---------------------|-----------------------------------|----------|----------------------|-------------------|
| BI-11166          | Diagnostic: IGN1 Flame Rollout Switch Open           | Diagnostic: IGN1 Flame Rollout Switch Open           | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33081             |
| BI-11167          | Diagnostic: IGN1 Inducer Proving Switch Fail Closed  | Diagnostic: IGN1 Inducer Proving Switch Fail Closed  | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33082             |
| BI-11168          | Diagnostic: IGN1 Inducer Proving Switch Fail Open    | Diagnostic: IGN1 Inducer Proving Switch Fail Open    | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33083             |
| BI-11169          | Diagnostic: IGN1 No Flame Sensed on Ignition         | Diagnostic: IGN1 No Flame Sensed on Ignition         | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33084             |
| BI-11170          | Diagnostic: IGN1 Flame Sensed w/Gas Valve Off        | Diagnostic: IGN1 Flame Sensed w/Gas Valve Off        | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33085             |
| BI-11171          | Diagnostic: IGN1 Hardware Configuration Error        | Diagnostic: IGN1 Hardware Configuration Error        | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33086             |
| BI-11172          | Diagnostic: IGN1 Weak Flame                          | Diagnostic: IGN1 Weak Flame                          | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33087             |
| BI-11173          | Diagnostic: IGN1 Gas Valve Error                     | Diagnostic: IGN1 Gas Valve Error                     | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33088             |
| BI-11174          | Diagnostic: IGN1 Module Failure                      | Diagnostic: IGN1 Module Failure                      | Primary Heating Source is Configured as Gas | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33089             |
| BI-11175          | Diagnostic: ERM Supply Fan Phase Failure - 1         | Diagnostic: ERM Supply Fan Phase Failure -1          | Tonnage is Configured as 6-25 tons          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33180             |
| BI-11176          | Diagnostic: ERM Supply Fan Phase Failure - 2         | Diagnostic: ERM Supply Fan Phase Failure - 2         | Tonnage is Configured as 15-25 tons         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33181             |
| BI-11177          | Diagnostic: ERM Supply Fan Internal Comm Failure - 1 | Diagnostic: ERM Supply Fan Internal Comm Failure - 1 | Tonnage is Configured as 6-25 tons          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33182             |
| BI-11178          | Diagnostic: ERM Supply Fan Internal Comm Failure - 2 | Diagnostic: ERM Supply Fan Internal Comm Failure - 2 | Tonnage is Configured as 15-25 tons         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33183             |
| BI-11179          | Diagnostic: ERM Supply Fan Hall Sensor Error - 1     | Diagnostic: ERM Supply Fan Hall Sensor Error -1      | Tonnage is Configured as 6-25 tons          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33184             |
| BI-11180          | Diagnostic: ERM Supply Fan Hall Sensor Error - 2     | Diagnostic: ERM Supply Fan Hall Sensor Error -2      | Tonnage is Configured as 15-25 tons         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33185             |
| BI-11181          | Diagnostic: ERM Supply Fan Speed Limit Exceeded - 1  | Diagnostic: ERM Supply Fan Speed Limit Exceeded - 1  | Tonnage is Configured as 6-25 tons          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33186             |
| BI-11182          | Diagnostic: ERM Supply Fan Speed Limit Exceeded - 2  | Diagnostic: ERM Supply Fan Speed Limit Exceeded - 2  | Tonnage is Configured as 15-25 tons         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33187             |
| BI-11183          | Diagnostic: ERM Supply Fan Rotor Calibration - 1     | Diagnostic: ERM Supply Fan Rotor Calibration - 1     | Tonnage is Configured as 6-25 tons          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33188             |
| BI-11184          | Diagnostic: ERM Supply Fan Rotor Calibration - 2     | Diagnostic: ERM Supply Fan Rotor Calibration - 2     | Tonnage is Configured as 15-25 tons         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33189             |
| BI-11185          | Diagnostic: ERM Supply Fan DC link Undervoltage - 1  | Diagnostic: ERM Supply Fan DC-link Undervoltage - 1  | Tonnage is Configured as 6-25 tons          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33190             |
| BI-11186          | Diagnostic: ERM Supply Fan DC link Undervoltage - 2  | Diagnostic: ERM Supply Fan DC-link Undervoltage - 2  | Tonnage is Configured as 15-25 tons         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33191             |

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| Object Identifier | Object Name   | Description   | Configuration Dependency                  | Read/Write | Arbitration Pattern | Object States                     | Polarity | Modbus Register Type | Modbus Register 1 |
|-------------------|---|---|---|------------|---------------------|-----------------------------------|----------|----------------------|-------------------|
| BI-11187          | Reheat Pumpout Solenoid Status                              | Reheat Pumpout Solenoid IMC Command Status  | Hot Gas Reheat is Configured as Installed | Read       | NA                  | false = Off<br>true = On          | Normal   | Input                | 33195             |
| BI-11189          | Reheat Valve 1 Fault Status                                 | Reheat Valve 1 Fault Status   | Hot Gas Reheat is Configured as Installed | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33196             |
| BI-11190          | Reheat Valve 1 Calibration Status                           | Reheat Valve 1 Calibration Status from Stepper Motor Module                                     | Hot Gas Reheat is Configured as Installed | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33199             |
| BI-11192          | VAV Changeover Input  | VAV Changeover Request  | System Type is Configured as VVDA         | Read       | NA                  | false = Open<br>true = Closed     | Normal   | Input                | 33093             |
| BI-11193          | Crankcase Heater Command                                    | Crankcase Heater status for VSPD Compressor   |   | Read       | NA                  | false = Off<br>true = On          | Normal   | Input                | 33206             |
| BI-11195          | Diagnostic: Gas Heat Unexpected Flame Manif 1 Burner 1      | Modulating gas heat ignition controller, unexpected flame detected with gas valve is off        | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33212             |
| BI-11196          | Diagnostic: Gas Heat Unexpected Flame Manif 1 Burner 2      | Modulating gas heat ignition controller, unexpected flame detected with gas valve is off        | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33213             |
| BI-11197          | Diagnostic: Modulating Gas Invalid ID Plug Manifold 1       | Gas heat ignition controller detected an invalid or failed ID Plug                              | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33214             |
| BI-11198          | Diagnostic: Modulating Gas Heat Configuration Invalid       | Unit controller configuration does not match gas heat ignition controller ID Plug configuration | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33215             |
| BI-11199          | Diagnostic: Gas Heat Weak Flame Manif 1 Burner 1            | Weak flame or aged flame rod detected on burner 1   | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33216             |
| BI-11200          | Diagnostic: Gas Heat Weak Flame Manif 1 Burner 2            | Weak flame or aged flame rod detected on burner 2   | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33217             |
| BI-11201          | Diagnostic: Gas Heat Insufficient Combustion Air            | Gas heat is being derated/reduced due to insufficient combustion air                            | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33218             |
| BI-11202          | Diagnostic: Modulating Gas Primary Limit Open Manifold 1    | Gas heat failure, primary limit detected open   | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33219             |
| BI-11203          | Diagnostic: Modulating Gas Heat Open Fuse Manifold 1        | Gas heat failure, fuse detected open  | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33220             |
| BI-11204          | Diagnostic: Gas Heat Failed Ignition Manifold 1             | Gas heat is locked out for one hour due to failed ignition attempts                             | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33221             |
| BI-11205          | Diagnostic: Modulating Gas Valve Failure Manifold 1         | Modulating gas valve did not reach park or full On position                                     | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33222             |
| BI-11206          | Diagnostic: Modulating Gas Control Board Failure Manifold 1 | Ignition control board failure during startup self test   | Modulating Gas Heat is Configured         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33223             |
| BI-11231          | Diagnostic: Gas Heat Lockout Manifold 1                     | Modulating gas heat ignition controller operation is locked out.                                | Modulating Gas Heat Configured            | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33248             |
| BI-11235          | Diagnostic: Gas Heat Failed Ignition Manifold 1 Burner 2    | Modulating gas heat ignition controller burner 2 operation failed ignition.                     | Modulating gas heat configured            | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33252             |

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| Object Identifier | Object Name   | Description  | Configuration Dependency          | Read/Write | Arbitration Pattern | Object States                     | Polarity | Modbus Register Type | Modbus Register 1 |
|-------------------|---|--|-----------------------------------|------------|---------------------|-----------------------------------|----------|----------------------|-------------------|
| BI-11237          | Diagnostic: VFD Cprsr Current Overload - Cprsr 1      | Diagnostic: VFD Cprsr Current Overload - Cprsr 1   | Efficiency == Ultra High          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33057             |
| BI-11238          | Diagnostic: VFD Compressor Ground Fault - Cprsr 1     | Diagnostic: VFD Compressor Ground Fault - Cprsr 1  | Efficiency == Ultra High          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33260             |
| BI-11239          | Diagnostic: VFD Compressor Short Circuit - Cprsr 1    | Diagnostic: VFD Compressor Short Circuit - Cprsr 1   | Efficiency == Ultra High          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33261             |
| BI-11240          | Diagnostic: VFD Compressor In Hand Mode - Cprsr 1     | Diagnostic: VFD Compressor In Hand Mode - Cprsr 1  | Efficiency == Ultra High          | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33262             |
| BI-11241          | Diagnostic: Gas Heat Air Pressure Sensor Reading Low  | Modulating gas heat ignition controller, air pressure sensor is reading low  | Modulating Gas Heat is Configured | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33264             |
| BI-11242          | Diagnostic: Gas Heat Air Pressure Sensor Reading High | Modulating gas heat ignition controller, air pressure sensor is reading high, air pressure switch failed to close  | Modulating Gas Heat is Configured | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33265             |
| BI-11243          | Diagnostic: Gas Heat Loss of Inducer Motor Control    | Modulating gas heat ignition controller, loss of inducer motor control   | Modulating Gas Heat is Configured | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33266             |
| BI-11244          | Diagnostic: Gas Heat Air Sensor Null Pressure Check   | Modulating gas heat ignition controller, air sensor null pressure check out of tolerance   | Modulating Gas Heat is Configured | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33267             |
| BI-11245          | Diagnostic: Gas Heat Limited Low Fire                 | Modulating gas heat ignition controller, flame loss at low fire results in an auto-adjustment that limits the burner turn down during the rest of the current call for heat.   | Modulating Gas Heat is Configured | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33268             |
| BI-11246          | Heating Output Operational Limit                      | Heating capacity is being limited due to heat rise across gas furnace.   | Modulating Gas Heat is Configured | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33269             |
| BI-11247          | Diagnostic: Refrigerant Concentration Sensor A        | Diagnostic point that is be active when Refrigerant Leak Sensor is in the alarm state. Diagnostic resets when the Refrigerant Leak Sensor alarm has reset (refrigerant concentration has reduced below the lower concentration threshold). | Refrigerant Type is R454B         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33270             |
| BI-11248          | Refrigerant Leak Detection System Input               | The Active state will be maintained for the duration of the alarm state.   | Refrigerant Type is R454B         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33271             |
| BI-11249          | Diagnostic: Refrigerant Leak Sensor Failure Sensor A  | Diagnostic point that shall be active when the refrigerant sensor reports a fault (Fault Status is active).  | Refrigerant Type is R454B         | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33272             |
| BI-11250          | Diagnostic: IGN1 Low Ambient Lockout                  | Diagnostic: IGN1 Low NOx Heat Furnace Low Ambient Lockout  | Modulating Gas Heat is Configured | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33275             |

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|-------------------|--|--|---|------------|---------------------|-----------------------------------|----------|----------------------|-------------------|
| BI-11251          | Diagnostic: Low Saturated Suction Refrig Protection          | Diagnostic: Low Saturated Suction Refrig Protection          | 3-5 tons, High Efficiency (HE) Heat Pump configurations | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33276             |
| BI-11252          | Diagnostic: Low Saturated Suction Refrig Protection Disabled | Diagnostic: Low Saturated Suction Refrig Protection Disabled | 3-5 tons, High Efficiency (HE) Heat Pump configurations | Read       | NA                  | false = Inactive<br>true = Active | Normal   | Input                | 33277             |

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| Object Identifier | Object Name                          | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Object States                         | Modbus Register Type | Modbus Register 1 |
|-------------------|--------------------------------------|---|---|------------|-------------------------------------|--------------------|---------------------------------------|----------------------|-------------------|
| BV-10103          | Heat Lockout Command                 | Normally used by the BMS to command the unit to prevent heating operation               | Primary Heating Source Installed  | Write      | Setpoint Simple with Priority Array | Normal             | false = Normal<br>true = Locked out   | Holding              | 43010             |
| BV-10104          | Supply Fan Configuration Command     | Used to command the supply fan configuration as either cycling or continuous            | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor  | Write      | NA                                  | Continuous         | false = Cycling<br>true = Continuous  | Holding              | 43011             |
| BV-10106          | Dehumidification Enable Command      | Normally used by the BMS to disable unit dehumidification                               | Hot Gas Reheat is Configured as Installed   | Write      | Setpoint Simple with Priority Array | Auto               | false = Disabled<br>true = Auto       | Holding              | 43012             |
| BV-10109          | Filter Timer Reset                   | Command the unit to reset the accumulated filter run hours.                             | Always  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset  | Holding              | 43013             |
| BV-10110          | Reset Diagnostic                     | Used to initiate a request to reset any controller diagnostics                          | Always  | Write      | NA                                  | Normal             | false = Normal<br>true = Reset        | Holding              | 43014             |
| BV-10111          | Daytime Warmup Enable Command        | Used to enable daytime warmup   | System Type is Configured as VVDA and Primary Heat is Configured.   | Write      | Setpoint Simple with Priority Array | Disabled           | false = Disabled<br>true = Enabled    | Holding              | 43015             |
| BV-10112          | Morning Warmup Enable Command        | Normally used by the BMS to enable morning warmup                                       | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is configured as VVDA and Primary Heat is Installed                 | Write      | Setpoint Simple with Priority Array | Disabled           | false = Disabled<br>true = Enabled    | Holding              | 43016             |
| BV-10113          | Occupancy Input BAS                  | Normally used by the BMS to provide the requested occupancy state to the unit           | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor with/without Outside Air Configured as 0-100% or System Type is configured as VVDA | Write      | Sensor Complex                      |                    | false = Occupied<br>true = Unoccupied | Holding              | 43017             |
| BV-10115          | Cooling Lockout BAS                  | Used to prevent all mechanical cooling  | Always  | Write      | Setpoint Simple with Priority Array | Normal             | false = Normal<br>true = Locked out   | Holding              | 43018             |
| BV-10119          | Supply Air Tempering Enable          | Used to enable the supply (discharge) air tempering feature of the unit                 | Supply Air Tempering Configured as Enabled  | Write      | Setpoint Simple with Priority Array | Disable            | false = Disable<br>true = Enable      | Holding              | 43019             |
| BV-11100          | Alarm Indicator Status               | Indicates the state of the alarm output command from the controller                     | Always  | Read       | NA                                  |                    | false = Off<br>true = On              | Input                | 33090             |
| BV-11101          | Supply Fan High Speed Command Status | Supply Fan High Speed Command for 2-Speed Fan Relay Controlled Equipment                | 3-5 Standard Efficiency CVZT unit configuration   | Read       | NA                                  |                    | false = Off<br>true = On              | Input                | 33091             |
| BV-11112          | Condenser Defrost Status             | Status point to indicate when defrost is active on any circuit within a heat pump unit. | Heat Pump Systems   | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33098             |



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|-------------------|--------------------------------------|--|---|------------|-------------------------------------|--------------------|--------------------------------------|----------------------|-------------------|
| BV-11113          | Unit Stop Command                    | Point used to force the unit into an immediate stop condition. Primary use-case is at local or mobile service tool UI.                 | Always  | Write      | NA                                  | Auto               | false = Auto<br>true = Stop          | Holding              | 43020             |
| BV-11114          | Supply Fan Speed Command Enable      | Enables the unit to use Supply Fan Speed Command to override the units internally determined fan speed.                                | Always  | Write      | Setpoint Simple with Priority Array | Disabled           | false = Disabled<br>true = Enabled   | Holding              | 43021             |
| BV-11115          | Cooling Capacity Setpoint Enable BAS | Commands the unit to use Cooling Capacity Setpoint BAS value to override internal algorithm's cooling capacity output request.         | Always  | Write      | Setpoint Simple with Priority Array | Disabled           | false = Disabled<br>true = Enabled   | Holding              | 43022             |
| BV-11116          | Heating Capacity Setpoint Enable BAS | Commands the unit to use Heating Capacity Setpoint BAS value to override internal algorithm's heating capacity output request.         | Primary Heating Source Installed                      | Write      | Setpoint Simple with Priority Array | Disabled           | false = Disabled<br>true = Enabled   | Holding              | 43023             |
| BV-11119          | Supply Fan Compensation              | Command the unit to utilize "Economizer Minimum Position Setpoint BAS" instead of its internally determined minimum position setpoint. | Outside Air is Configured as 0-100%                   | Write      | Setpoint Simple with Priority Array | Enabled            | false = Disabled<br>true = Enabled   | Holding              | 43026             |
| BV-11121          | Compressor 1 Run Time Reset          | Compressor 1 Runtime Reset   | Always  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43027             |
| BV-11122          | Compressor 1 Starts Reset            | Compressor 1 Starts Reset  | Always  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43028             |
| BV-11123          | Compressor 2 Run Time Reset          | Compressor 2 Runtime Reset   | Multi-Compressor Systems                              | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43029             |
| BV-11124          | Compressor 2 Starts Reset            | Compressor 2 Starts Reset  | Multi-Compressor Systems                              | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43030             |
| BV-11127          | Condenser Fan 1 Run Time Reset       | Condenser Fan 1 Runtime Reset  | Always  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43033             |
| BV-11128          | Condenser Fan 1 Starts Reset         | Condenser Fan 1 Starts Reset   | Always  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43034             |
| BV-11129          | Condenser Fan 2 Run Time Reset       | Condenser Fan 2 Runtime Reset  | Dual Condenser Fan Systems                            | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43035             |
| BV-11130          | Condenser Fan 2 Starts Reset         | Condenser Fan 2 Starts Reset   | Dual Condenser Fan Systems                            | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43036             |
| BV-11133          | Relief Fan Run Time Reset            | Relief Fan Runtime Reset   | Space Pressure Control is Configured                  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43037             |
| BV-11134          | Relief Fan Starts Reset              | Relief Fan Starts Reset  | Space Pressure Control is Configured                  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43038             |
| BV-11135          | Electric Heat Stage 1 Run Time Reset | Electric Heat Stage 1 Runtime Reset  | One or more stages of Staged Electric Heat configured | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43039             |



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| Object Identifier | Object Name                                 | Description   | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Object States                         | Modbus Register Type | Modbus Register 1 |
|-------------------|---|---|---|------------|-------------------------------------|--------------------|---------------------------------------|----------------------|-------------------|
| BV-11136          | Electric Heat Stage 1 Starts Reset          | Electric Heat Stage 1 Starts Reset  | One or more stages of Staged Electric Heat configured   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset  | Holding              | 43040             |
| BV-11137          | Electric Heat Stage 2 Run Time Reset        | Electric Heat Stage 2 Runtime Reset   | Two or more stages of Staged Electric Heat configured   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset  | Holding              | 43041             |
| BV-11138          | Electric Heat Stage 2 Starts Reset          | Electric Heat Stage 2 Starts Reset  | Two or more stages of Staged Electric Heat configured   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset  | Holding              | 43042             |
| BV-11139          | Supply Fan Run Time Reset                   | Supply Fan Runtime Reset  | Always  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset  | Holding              | 43043             |
| BV-11140          | Supply Fan Starts Reset                     | Supply Fan Starts Reset   | Always  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset  | Holding              | 43044             |
| BV-11142          | Diagnostic: Heat Failure                    | Diagnostic: Heat Failure  | Primary Heating Source is Configured as Gas   | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33103             |
| BV-11143          | Diagnostic: Duct Static Pressure Limit Trip | Diagnostic: Duct Static Pressure Limit Trip   | System Type is Configured as VVDA   | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33104             |
| BV-11144          | Diagnostic: Filter Change Required          | Diagnostic: Dirty Filter  | Clogged Filter Configured as Installed  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33105             |
| BV-11145          | Diagnostic: Condensate Overflow Lockout     | Condensate Drain Pan Overflow Lockout   | Condensate Overflow Switch is Configured as Installed   | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33106             |
| BV-11146          | Diagnostic: FroStat Trip                    | Diagnostic: FroStat Trip  | FroStat Configured as Installed   | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33107             |
| BV-11155          | Diagnostic: Comp 1 Proving Trip             | Diagnostic: Comp 1 Proving Trip   | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33110             |
| BV-11156          | Diagnostic: Comp 2 Proving Trip             | Diagnostic: Comp 2 Proving Trip   | Multi-Compressor Systems  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33111             |
| BV-11158          | Diagnostic: Circuit 1 LPC Trip              | Diagnostic: Circuit 1 LPC Trip  | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33113             |
| BV-11161          | Diagnostic: Compressor 1 Contactor Failure  | Diagnostic: Compressor 1 Contactor Fail Lockout   | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33116             |
| BV-11162          | Diagnostic: Circuit 1 LPC Lockout           | Diagnostic: Circuit 1 LPC Lockout   | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33117             |
| BV-11166          | VVZT DAT Control Mode                       | Determines Auto or Manual mode for discharge air temperature control for VVZT applications. | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor   | Write      | Setpoint Simple with Priority Array | Auto               | false = Auto<br>true = Manual         | Holding              | 43046             |
| BV-11172          | Diagnostic: Compressor 1 Proving Lockout    | Diagnostic: Compressor 1 Proving Lockout  | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33120             |
| BV-11173          | Occupancy Input Active                      | Occupancy Input being actively used for status determination.                               | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor with/without Outside Air configured as 0-100% or System Type is configured as VVDA | Read       | Sensor Complex                      |                    | false = Occupied<br>true = Unoccupied | Input                | 33121             |

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|-------------------|---|---|---|------------|-------------------------------------|--------------------|--------------------------------------|----------------------|-------------------|
| BV-11174          | Diagnostic: Compressor 2 Contactor Failure    | Diagnostic: Compressor 2 Contactor Fail Lockout                                     | Multi-Compressor Systems  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33122             |
| BV-11176          | Diagnostic: Compressor 2 Proving Lockout      | Diagnostic: Compressor 2 Proving Lockout  | Multi-Compressor Systems  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33124             |
| BV-11177          | Diagnostic: Demand Defrost Disabled           | Diagnostic: Demand Defrost Disabled   | Non-Independent Condenser Air Stream Heat Pumps   | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33125             |
| BV-11180          | Diagnostic: Demand Defrost Fault A            | Diagnostic: Demand Defrost Fault A  | Single Circuit Heat Pumps or Multi-Circuit Heat Pumps without Independent Condenser Airstreams  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33128             |
| BV-11183          | Diagnostic: Demand Defrost Fault B            | Diagnostic: Demand Defrost Fault B  | Single Circuit Heat Pumps or Multi-Circuit Heat Pumps without Independent Condenser Airstreams  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33131             |
| BV-11186          | Diagnostic: Demand Defrost Fault C            | Diagnostic: Demand Defrost Fault C  | Single Circuit Heat Pumps or Multi-Circuit Heat Pumps with Independent Condenser Airstreams   | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33134             |
| BV-11189          | Diagnostic: Demand Defrost Fault D            | Diagnostic: Demand Defrost Fault D  | Single Circuit Heat Pumps or Multi-Circuit Heat Pumps with Independent Condenser Airstreams   | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33137             |
| BV-11190          | Diagnostic: Maintenance Required              | Diagnostic: Maintenance Required  | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33138             |
| BV-11192          | Diagnostic: Unit Communications Failure       | Diagnostic: Unit Communications Failure   | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33140             |
| BV-11199          | Supply Fan Configuration Status               | Indicates the supply fan configuration  | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVZT                                      | Read       | NA                                  |                    | false = Cycling<br>true = Continuous | Input                | 33141             |
| BV-11200          | Timed Override Timer Is Active                | Indicates whether or not the timed override timer is active                         | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or System Type is Configured as VVDA | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33142             |
| BV-11201          | Supply Fan Speed Command Enable - Active      | Active value for Supply Fan Speed Command Enable point being used for control.      | Always  | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled   | Input                | 33143             |
| BV-11202          | Cooling Capacity Setpoint Enable BAS - Active | Active value for Cooling Capacity Setpoint Enable BAS point being used for control. | Always  | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled   | Input                | 33144             |
| BV-11203          | Cooling Lockout BAS - Active                  | Active value for Cooling Lockout BAS point being used for control.                  | Always  | Read       | Setpoint Simple with Priority Array |                    | false = Normal<br>true = Locked out  | Input                | 33145             |

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|-------------------|---|---|---|------------|-------------------------------------|--------------------|---------------------------------------|----------------------|-------------------|
| BV-11204          | Heating Capacity Setpoint Enable BAS - Active | Active value for Heating Capacity Setpoint Enable point being used for control. | Primary Heating Source Installed  | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled    | Input                | 33146             |
| BV-11205          | Daytime Warmup Enable Command - Active        | Active value for Daytime Warmup Enable Command point being used for control.    | System Type is Configured as VVDA and Primary Heat is Configured.   | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled    | Input                | 33147             |
| BV-11208          | Supply Fan Compensation - Active              | Active value for Supply Fan Compensation point being used for control.          | Outside Air is Configured as 0-100%   | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled    | Input                | 33150             |
| BV-11209          | Dehumidification Enable Command - Active      | Active value for Dehumidification Enable Command point being used for control.  | Hot Gas Reheat is Configured as Installed   | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Auto       | Input                | 33151             |
| BV-11211          | VVZT DAT Control Mode - Active                | Active value for VVZT DAT Control Mode point being used for control.            | System Type Configured as VVZT and Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor   | Read       | Setpoint Simple with Priority Array |                    | false = Auto<br>true = Manual         | Input                | 33153             |
| BV-11216          | Heat Lockout Command - Active                 | Active value for Heat Lockout Command point being used for control.             | Primary Heating Source Installed  | Read       | Setpoint Simple with Priority Array |                    | false = Normal<br>true = Locked out   | Input                | 33156             |
| BV-11217          | Morning Warmup Enable Command - Active        | Active value for Morning Warmup Enable Command point being used for control.    | Primary Heating Source is Installed and Space Controller is Single Setpoint or Dual Setpoint Zone Sensor or System Type is Configured as VVDA                     | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled    | Input                | 33157             |
| BV-11221          | Supply Air Tempering Status                   | Indicates the status of the Supply Air Tempering function                       | Supply Air Tempering Configured as Enabled  | Read       | NA                                  |                    | false = Disable<br>true = Enable      | Input                | 33160             |
| BV-11222          | Supply Air Tempering Enable - Active          | Active value for Supply Air Tempering Enable point being used for control.      | Supply Air Tempering Configured as Enabled  | Read       | Setpoint Simple with Priority Array |                    | false = Disable<br>true = Enable      | Input                | 33161             |
| BV-11224          | Occupancy Input Arbitrator                    | Indicates the status of the arbitrated occupancy inputs                         | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor with/without Outside Air Configured as 0-100% or System Type is configured as VVDA | Write      | Sensor Complex                      | Occupied           | false = Occupied<br>true = Unoccupied | Holding              | 43049             |
| BV-11226          | Demand Limit Request BAS                      | Used to demand limit the unit remotely.   | Demand Management Configured as Demand Limit  | Write      | Setpoint Simple BAS                 | Not Limited        | false = Not Limited<br>true = Limited | Holding              | 43050             |
| BV-11227          | Demand Limit Request - Active                 | Active Demand Limit Request value used by the equipment.                        | Demand Management Configured as Demand Limit  | Read       | Setpoint Simple BAS                 |                    | false = Not Limited<br>true = Limited | Input                | 33164             |
| BV-11230          | Diagnostic: VFD Compressor Fault - Cprsr 1    | Diagnostic that becomes active anytime a drive fault is Active.                 | Efficiency == Ultra High  | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33167             |
| BV-11231          | Daytime Warmup Active                         | Indicates if daytime warmup is currently active                                 | System Type is Configured as VVDA and Primary Heat is Configured.   | Read       | NA                                  |                    | false = Inactive<br>true = Active     | Input                | 33168             |

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| Object Identifier | Object Name  | Description  | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Object States                        | Modbus Register Type | Modbus Register 1 |
|-------------------|--|--|---|------------|-------------------------------------|--------------------|--------------------------------------|----------------------|-------------------|
| BV-11232          | Morning Warmup Active                                      | Indicates if morning warmup is active                | Primary Heating Source is Installed and Space Controller is Single Setpoint or Dual Setpoint Zone Sensor or System Type is Configured as VVDA     | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33169             |
| BV-11233          | Supply Fan 2 Run Time Reset                                | Supply Fan 2 Runtime Reset                           | Tonnage is Configured as 15-25 tons   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43051             |
| BV-11234          | Supply Fan 2 Starts Reset                                  | Supply Fan 2 Starts Reset                            | Tonnage is Configured as 15-25 tons   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43052             |
| BV-11235          | Occupied Standby Supply Fan Configuration Command          | Used to select the Occupied Standby Fan Mode setting | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor  | Write      | Setpoint Simple with Priority Array | Cycling            | false = Cycling<br>true = Continuous | Holding              | 43053             |
| BV-11236          | Occupied Standby Supply Fan Configuration Command - Active | Indicates the Occupied Standby Fan Mode setting      | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                      | Read       | Setpoint Simple with Priority Array |                    | false = Cycling<br>true = Continuous | Input                | 33170             |
| BV-11239          | Gas Heat Stage 1 Run Time Reset                            | Gas heat Stage 1 Runtime Reset                       | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43054             |
| BV-11240          | Gas Heat Stage 1 Starts Reset                              | Gas heat Stage 1 Starts Reset                        | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43055             |
| BV-11241          | Gas Heat Stage 2 Run Time Reset                            | Gas heat Stage 2 Runtime Reset                       | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43056             |
| BV-11242          | Gas Heat Stage 2 Starts Reset                              | Gas heat Stage 2 Starts Reset                        | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset | Holding              | 43057             |
| BV-11243          | Diagnostic: ERM Supply Fan 1 Failure                       | Diagnostic: ERM Supply Fan 1 Failure                 | Tonnage is Configured as 6-25 tons  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33173             |
| BV-11244          | Diagnostic: ERM Supply Fan 2 Failure                       | Diagnostic: ERM Supply Fan 2 Failure                 | Tonnage is Configured as 15-25 tons   | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33174             |
| BV-11245          | Diagnostic: Supply Fan Proving Failure                     | Diagnostic: Supply Fan Proving Failure               | Always  | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33175             |
| BV-11248          | Diagnostic: High Condensate Level Detected                 | Diagnostic: High Condensate Level Detected           | Condensate Overflow Switch is Configured as Installed   | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33178             |
| BV-11249          | Diagnostic: Morning Warmup Mode Exceeded 120 Minutes       | Diagnostic: Morning Warmup Mode Exceeded 120 Minutes | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is configured as VVDA and Primary Heat is Installed | Read       | NA                                  |                    | false = Inactive<br>true = Active    | Input                | 33179             |

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| Object Identifier | Object Name  | Description  | Configuration Dependency  | Read/Write | Arbitration Pattern                 | Relinquish Default | Object States                      | Modbus Register Type | Modbus Register 1 |
|-------------------|--|--|---|------------|-------------------------------------|--------------------|------------------------------------|----------------------|-------------------|
| BV-11250          | Diagnostic: Pre Cool Mode Exceeded 120 Minutes     | Diagnostic: Precool Mode Exceeded 120 Minutes  | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is configured as VVDA | Read       | NA                                  |                    | false = Inactive<br>true = Active  | Input                | 33193             |
| BV-11251          | Diagnostic: Night Purge Mode Exceeded 120 Minutes  | Diagnostic: Night Purge Mode Exceeded 120 Minutes  | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is configured as VVDA | Read       | NA                                  |                    | false = Inactive<br>true = Active  | Input                | 33194             |
| BV-11253          | Heat Pump Heating Lockout Setpoint Enable          | Used to enable the Heat pump Heating Lockout Setpoint. When the lockout setpoint is enabled, the unit preferences auxiliary heating over heat pump heating when the Outdoor Air Temperatures are below the lockout setpoint          | Heat Pump Systems   | Write      | Setpoint Simple with Priority Array | Enable             | false = Disable<br>true = Enable   | Holding              | 43060             |
| BV-11254          | Heat Pump Heating Lockout Setpoint Enable - Active | Active value for the Heat pump Heating Lockout Setpoint Enable. When the lockout setpoint is enabled, the unit preferences auxiliary heating over heat pump heating when the Outdoor Air Temperatures are below the lockout setpoint | Heat Pump Systems   | Read       | Setpoint Simple with Priority Array |                    | false = Inactive<br>true = Active  | Input                | 33192             |
| BV-11255          | Dehumidification Status                            | Active state showing whether dehumidification is active or inactive.   | Hot Gas Reheat is Configured as Installed   | Read       | NA                                  |                    | false = Inactive<br>true = Active  | Input                | 33203             |
| BV-11256          | Pre Cool Enable Command                            | Normally used by the BMS to enable pre Cool  | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is configured as VVDA | Write      | Setpoint Simple with Priority Array | Disabled           | false = Disabled<br>true = Enabled | Holding              | 43061             |
| BV-11257          | Pre Cool Enable Command - Active                   | Active value for Pre Cool Enable Command point being used for control.   | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is configured as VVDA | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled | Input                | 33201             |
| BV-11258          | Pre Cool Active                                    | Indicates if Pre Cool is active  | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is configured as VVDA | Read       | NA                                  |                    | false = Inactive<br>true = Active  | Input                | 33202             |
| BV-11259          | Occupied Dehumidification Enable BAS               | Setting for unit to use "Enable" or "Disable" for Occupied Dehumidification Control  | Hot Gas Reheat is Configured as Installed   | Write      | NA                                  | Enabled            | false = Disabled<br>true = Enabled | Holding              | 43062             |
| BV-11260          | Occupied Dehumidification Enable BAS - Active      | Active value for Dehumidification Enable BAS point being used for control.   | Hot Gas Reheat is Configured as Installed   | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled | Input                | 33204             |

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| Object Identifier | Object Name                                     | Description  | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Object States                           | Modbus Register Type | Modbus Register 1 |
|-------------------|---|--|--|------------|-------------------------------------|--------------------|---|----------------------|-------------------|
| BV-11261          | Unoccupied Dehumidification Enable BAS          | Setting for unit to use "Enable" or "Disable" for Occupied Dehumidification Control  | Hot Gas Reheat is Configured as Installed  | Write      | NA                                  | Enabled            | false = Disabled<br>true = Enabled      | Holding              | 43063             |
| BV-11262          | Unoccupied Dehumidification Enable BAS - Active | Active value for Dehumidification Enable BAS point being used for control.   | Hot Gas Reheat is Configured as Installed  | Read       | Setpoint Simple with Priority Array |                    | false = Disabled<br>true = Enabled      | Input                | 33205             |
| BV-11263          | Diagnostic: Duct Static Pressure Limit Lockout  | Diagnostic: Duct Static Pressure Limit Lockout   | System Type is configured as VVDA  | Read       | NA                                  |                    | false = Inactive<br>true = Active       | Input                | 33207             |
| BV-11264          | Diagnostic: Duct Static Pressure Local Trip     | Diagnostic: Duct Static Pressure Local Trip  | System Type is configured as VVDA  | Read       | NA                                  |                    | false = Inactive<br>true = Active       | Input                | 33208             |
| BV-11265          | Diagnostic: Duct Static Pressure Local Lockout  | Diagnostic: Duct Static Pressure Local Lockout   | System Type is configured as VVDA  | Read       | NA                                  |                    | false = Inactive<br>true = Active       | Input                | 33209             |
| BV-11266          | Gas Heat Manifold 1 Burner 1 Run Time Reset     | Gas heat runtime reset   | Modulating Gas Heat Configured   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset    | Holding              | 43064             |
| BV-11267          | Gas Heat Manifold 1 Burner 1 Starts Reset       | Gas heat starts counter reset  | Modulating Gas Heat Configured   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset    | Holding              | 43065             |
| BV-11268          | Gas Heat Manifold 1 Burner 2 Run Time Reset     | Gas heat runtime reset   | Primary Heating Source is Configured as Gas and Primary Heating Type is Staged or Modulating | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset    | Holding              | 43066             |
| BV-11269          | Gas Heat Manifold 1 Burner 2 Starts Reset       | Gas heat starts counter reset  | Modulating Gas Heat Configured   | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset    | Holding              | 43067             |
| BV-11272          | Circuit 1 Condenser Defrost Run Time Reset      | Circuit 1 Condenser Defrost Runtime Reset  | Heat Pump Systems  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset    | Holding              | 43070             |
| BV-11273          | Circuit 1 Condenser Defrost Starts Reset        | Circuit 1 Condenser Defrost Starts Reset   | Heat Pump Systems  | Write      | NA                                  | Accumulating       | false = Accumulating<br>true = Reset    | Holding              | 43071             |
| BV-11277          | Diagnostic: Reheat Valve 1 Fault                | Diagnostic: Reheat Valve 1 Fault   | Hot Gas Reheat is Configured as Installed  | Read       | NA                                  |                    | false = Inactive<br>true = Active       | Input                | 33253             |
| BV-11283          | Refrigerant Mitigation Active                   | Active when the Symbio 700 controller is in a mitigation state for any reason.   | Refrigerant Type is R454B  | Read       | NA                                  |                    | false = Inactive<br>true = Active       | Input                | 33273             |
| BV-11284          | Thermostat Control Method Request               | Determines Auto or Conventional mode for enhanced thermostat applications.   | When Conventional Thermostat.  | Write      | NA                                  | Enhanced           | false = Conventional<br>true = Enhanced | Holding              | 43074             |
| BV-11285          | Thermostat Control Method Status                | Active value for Thermostat Control Method being used for control.   | When Conventional Thermostat.  | Read       | NA                                  |                    | false = Conventional<br>true = Enhanced | Input                | 33274             |
| BV-11288          | Heating Capacity Control Type Override BAS      | Used on units leveraging remote capacity control. Used for dual fuel when gas is the secondary heat source and heating is mutually exclusive between Heat Pump and Auxiliary heat. | Heat Pump Systems equipped with Secondary Gas Heat   | Write      | NA                                  | Disable            | false = Disable<br>true = Enable        | Holding              | 43077             |

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| Object Identifier | Object Name               | Description  | Configuration Dependency  | Read/Write | Arbitration Pattern | Relinquish Default | Object States  | Modbus Register Type | Modbus Register 1 |
|-------------------|---------------------------|--|---|------------|---------------------|--------------------|--|----------------------|-------------------|
| MI-10101          | Heat Cool Mode Status     | Indicates the current heat cool mode of the controller                               | Always  | Read       | NA                  |                    | 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 = Max Heat<br>14 = Economizer<br>15 = Dehumidify<br>16 = Calibrate | Input                | 32010             |
| MI-10144          | Economizer System Status  | Indicates the operating state of the airside economizer system.                      | Always  | Read       | NA                  |                    | 1 = Disabled<br>2 = Enabled<br>3 = Not Present   | Input                | 32012             |
| MI-11100          | System Mode Switch Air-Fi | Indicates the status of the wireless system mode switch connected to the controller. | Space Controller Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT | Read       | Setpoint Simple BAS |                    | 1 = Off<br>2 = Auto<br>3 = Cool<br>4 = Heat<br>5 = Emergency Heat  | Input                | 32013             |
| MI-11101          | Timed Override Air-Fi     | Indicates the status of the Timed Override wireless input.                           | Space Controller Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVDA         | Read       | Sensor Complex      |                    | 1 = Idle<br>2 = On<br>3 = Cancel   | Input                | 32014             |
| MI-11102          | System Mode Switch Input  | Indicates the status of the wired system mode switch connected to the controller.    | Space Controller Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT | Read       | Setpoint Simple BAS |                    | 1 = Off<br>2 = Auto<br>3 = Cool<br>4 = Heat<br>5 = Emergency Heat  | Input                | 32015             |
| MI-11103          | Timed Override Input      | Indicates the status of the Timed Override wired input.                              | Space Controller Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVDA         | Read       | Sensor Complex      |                    | 1 = Idle<br>2 = On<br>3 = Cancel   | Input                | 32016             |



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| Object Identifier | Object Name                               | Description   | Configuration Dependency            | Read/Write | Arbitration Pattern | Relinquish Default | Object States   | Modbus Register Type | Modbus Register 1 |
|-------------------|---|---|-------------------------------------|------------|---------------------|--------------------|---|----------------------|-------------------|
| MI-11104          | Supply Fan 1 ERM Information Alarm Status | Informational alarm status from the ERM supply fan 1. | Tonnage is Configured as 6-25 tons  | Read       | NA                  |                    | 1 = Normal<br>2 = Current Limitation in Action<br>3 = Line Impedance Too High<br>4 = Power Limiter in Action<br>5 = Output Stage Temperature High<br>6 = Motor Temperature High<br>7 = Temperature Inside Electronics High<br>8 = DC Link Voltage High<br>9 = Braking Mode<br>10 = Calibration of Rotor Position<br>11 = Actual Speed is Lower Than Run Monitoring Speed Limit<br>12 = Cable Break at Analog or PWM Input For Analog Set Value<br>13 = DC Link Voltage Low<br>14 = Line Voltage High<br>15 = Shedding Function Active | Input                | 32040             |
| MI-11105          | Supply Fan 2 ERM Information Alarm Status | Informational alarm status from the ERM supply fan 2. | Tonnage is Configured as 15-25 tons | Read       | NA                  |                    | 1 = Normal<br>2 = Current Limitation in Action<br>3 = Line Impedance Too High<br>4 = Power Limiter in Action<br>5 = Output Stage Temperature High<br>6 = Motor Temperature High<br>7 = Temperature Inside Electronics High<br>8 = DC Link Voltage High<br>9 = Braking Mode<br>10 = Calibration of Rotor Position<br>11 = Actual Speed is Lower Than Run Monitoring Speed Limit<br>12 = Cable Break at Analog or PWM Input For Analog Set Value<br>13 = DC Link Voltage Low<br>14 = Line Voltage High<br>15 = Shedding Function Active | Input                | 32041             |

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| Object Identifier | Object Name                   | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Object States  | Modbus Register Type | Modbus Register 1 |
|-------------------|-------------------------------|---|--|------------|-------------------------------------|--------------------|--|----------------------|-------------------|
| MV-10101          | Cooling Reset Type Status     | Indicates the type of cooling reset used by the controller          | System Type is Configured as VVDA  | Read       | NA                                  |                    | 1 = None<br>2 = Outdoor Air<br>3 = Zone<br>4 = Return Air  | Input                | 32047             |
| MV-10102          | Emergency Override BAS        | Used to command the unit into an emergency mode of operation        | Always   | Write      | Setpoint Simple with Priority Array | Normal             | 1 = Normal<br>2 = Pressurize<br>3 = Depressurize<br>4 = Purge<br>5 = Shutdown<br>6 = Fire  | Holding              | 42010             |
| MV-10103          | Economizer Airside Enable BAS | Normally provided by the BAS to enable airside economizing          | Outside Air is Configured as 0-100% Economizer   | Write      | Setpoint Simple with Priority Array | Auto               | 1 = Disabled<br>2 = Enabled<br>3 = Auto  | Holding              | 42011             |
| MV-10104          | Heat Cool Mode Request        | Used to command the unit into a heat/cool mode                      | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVDA   | Write      | Setpoint Simple with Priority Array | 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 = Max Heat<br>14 = Economizer<br>15 = Dehumidify<br>16 = Calibrate | Holding              | 42012             |
| MV-10106          | Occupancy Request             | Normally used by the BMS to command the unit into an occupancy mode | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVDA   | Write      | NA                                  | Auto               | 1 = Occupied<br>2 = Unoccupied<br>3 = Occupied Bypass<br>4 = Occupied Standby<br>5 = Auto  | Holding              | 42013             |
| MV-10110          | Timed Override Request        | Used to request a temporary timed override during unoccupied        | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VZT or CVZT or System Type is Configured as VVDA | Write      | Sensor Complex                      | Idle               | 1 = Idle<br>2 = On<br>3 = Cancel   | Holding              | 42014             |

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| Object Identifier | Object Name                                   | Description  | Configuration Dependency                      | Read/Write | Arbitration Pattern | Relinquish Default          | Object States   | Modbus Register Type | Modbus Register 1 |
|-------------------|---|--|---|------------|---------------------|-----------------------------|---|----------------------|-------------------|
| MV-11100          | Arbitration Method Request                    | Setting for unit to use "Enable External/BAS Control" or "Standalone Control" data prioritization. | Always  | Write      | NA                  | Enable External/BAS Control | 1 = Enable External/BAS Control<br>2 = Standalone Control   | Holding              | 42015             |
| MV-11101          | Customer Options Module Communication Status  | Communication Status of the Customer Options Module  | Customer Options Module Installed and In-Use  | Read       | NA                  |                             | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured  | Input                | 32017             |
| MV-11102          | Economizer Type                               | Indicates the general description of the type of economizer system                                 | Always  | Read       | NA                  |                             | 1 = None<br>2 = 2 Position Ventilation<br>3 = Modulation Economizer<br>4 = 2 Position Ventilation/Waterside Economizer<br>5 = Waterside Economizer<br>6 = Airside/Waterside Economizer<br>7 = TRAQ Damper<br>8 = Airside Economizer and TRAQ Damper/Sensor<br>9 = Waterside Economizer and TRAQ Damper/Sensor<br>10 = Airside/Waterside Economizer and TRAQ Damper/Sensor | Input                | 32018             |
| MV-11103          | Fresh Air Options Module Communication Status | Communication Status of the Fresh Air Options Module   | Fresh Air Options Module Installed and In-Use | Read       | NA                  |                             | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured  | Input                | 32019             |
| MV-11105          | Indoor Options Module Communication Status    | Communication Status of the Indoor Options Module  | Indoor Options Module Installed and In-Use    | Read       | NA                  |                             | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured  | Input                | 32021             |
| MV-11106          | On-Board I/O Communication Status             | Communication Status of the On-Board Inputs and Outputs  | Always  | Read       | NA                  |                             | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured  | Input                | 32022             |

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|-------------------|----------------------------|--|---|------------|---------------------|--------------------|--|----------------------|-------------------|
| MV-11110          | Service Test State Request | Point to request the unit into a service test step.  | Always  | Write      | NA                  | Inactive           | *See (a)<br>1 = Inactive<br>2 = Fan On Econ Open<br>3 = High Fan Speed Econ Open<br>4 = Ventilation Low Fan Speed<br>5 = Ventilation Mid Fan Speed<br>6 = Ventilation High Fan Speed<br>7 = Cool 1<br>8 = Cool 2<br>9 = Cool 3<br>10 = Cool 4<br>11 = Cool 5<br>12 = Reheat<br>13 = Heat 1<br>14 = Heat 2<br>15 = Heat 3<br>16 = Heat 4<br>17 = Aux Heat 1<br>18 = Aux Heat 2<br>19 = Defrost<br>20 = Emergency Heat<br>21 = Open Reheat Valve 1<br>22 = Close Reheat Valve 1<br>23 = Refrigerant Recovery | Holding              | 42017             |
| MV-11111          | Cooling Reset Type         | Selectable discharge air cooling reset type based on outdoor, space, or return air temperature.                              | System Type is Configured as VVDA   | Write      | NA                  | None               | 1 = None<br>2 = Outdoor Air<br>3 = Zone<br>4 = Return Air  | Holding              | 42018             |
| MV-11112          | System Mode Switch Local   | Indicates the status of the system mode switch connected to the controller as arbitrated between wired and wireless sources. | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT                                      | Read       | Setpoint Simple BAS | Auto               | 1 = Off<br>2 = Auto<br>3 = Cool<br>4 = Heat<br>5 = Emergency Heat  | Input                | 32025             |
| MV-11113          | Timed Override Status      | Indicates the status of the timed override request   | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor and System Type is Configured as VVZT or CVZT or System Type is Configured as VVDA | Read       | Sensor Complex      |                    | 1 = Idle<br>2 = On<br>3 = Cancel   | Input                | 32026             |

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|-------------------|---------------------------------|---|-------------------------------------|------------|-------------------------------------|--------------------|---|----------------------|-------------------|
| MV-11114          | Trane Unit Type                 | Indicates the equipment type according to the manufacturer's classification | Always                              | Read       | NA                                  |                    | 1 = 1 Heat/1 Cool<br>2 = Heat Pump<br>3 = Blower Coil<br>4 = Unit Ventilator<br>5 = Fan Coil<br>6 = Rooftop<br>7 = Air Handler<br>8 = Vertical Self Contained<br>9 = Unitary<br>10 = VAV Box  | Input                | 32027             |
| MV-11115          | Unit Stop Source                | Source of the stop command that turned off the equipment.                   | Always                              | Read       | NA                                  |                    | 1 = None<br>2 = Emergency Stop<br>3 = Drain Pan Overflow<br>4 = Local HI<br>5 = Remote HI<br>6 = External Auto Stop<br>7 = Phase Monitor<br>8 = Emergency Override<br>9 = Supply Fan Fault<br>10 = Equipment Shutdown Input<br>11 = Smoke Detector<br>12 = Equipment Limit<br>13 = Sensor Failure | Input                | 32028             |
| MV-11116          | Emergency Override BAS - Active | Active value for Emergency Override BAS point being used for control.       | Always                              | Read       | Setpoint Simple with Priority Array |                    | 1 = Normal<br>2 = Pressurize<br>3 = Depressurize<br>4 = Purge<br>5 = Shutdown<br>6 = Fire   | Input                | 32029             |
| MV-11118          | Economizer Decision Method      | Used to indicate the method of enabling airside economizing                 | Outside Air is configured as 0-100% | Read       | NA                                  |                    | 1 = Absolute Temperature<br>2 = Relative Temperature<br>3 = Absolute Enthalpy<br>4 = Comparative Enthalpy<br>5 = Differential Dry Bulb  | Input                | 32030             |

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|-------------------|--|--|---|------------|-------------------------------------|--------------------|--|----------------------|-------------------|
| MV-11119          | Refrigerant Type                       | Indicates the type of refrigerant used in the equipment                      | Always  | Read       | NA                                  |                    | 1 = R-11<br>2 = R-12<br>3 = R-22<br>4 = R-123<br>5 = R-134a<br>6 = R-407C<br>7 = R-410A<br>8 = R-113<br>9 = R-114<br>10 = R-500<br>11 = R-502<br>12 = R-404A<br>13 = R-513A<br>14 = R-1233zd(E)<br>15 = R-514A<br>16 = R-1234ze(E)<br>17 = R-454B                      | Input                | 32031             |
| MV-11120          | Economizer Airside Enable BAS - Active | Active value for Economizer Airside Enable BAS point being used for control. | Outside Air is configured as 0-100%   | Read       | Setpoint Simple with Priority Array |                    | 1 = Disabled<br>2 = Enabled<br>3 = Auto  | Input                | 32032             |
| MV-11121          | Heat Cool Mode Request - Active        | Active value for Heat Cool Mode Request point being used for control.        | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor or System Type is Configured as VVDA | Read       | Setpoint Simple with Priority Array |                    | 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 = Max Heat<br>14 = Economizer<br>15 = Dehumidify<br>16 = Calibrate | Input                | 32033             |
| MV-11123          | Occupancy Status                       | Indicates the active occupancy mode of the controller                        | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor                                      | Read       | NA                                  |                    | 1 = Occupied<br>2 = Unoccupied<br>3 = Occupied Bypass<br>4 = Occupied Standby<br>5 = Auto  | Input                | 32035             |

**Symbio™ 700 Integration Points List**  
**BACnet®/Modbus**  
**Precedent® and Axiom™ Rooftop WSHP**

Date: 11/08/2024  
 Firmware Release: V7.00.0011  
 Reference Document: BAS-SVP085\*-EN



| Object Identifier | Object Name                                     | Description   | Configuration Dependency   | Read/Write | Arbitration Pattern                 | Relinquish Default | Object States  | Modbus Register Type | Modbus Register 1 |
|-------------------|---|---|--|------------|-------------------------------------|--------------------|--|----------------------|-------------------|
| MV-11125          | Occupancy Request Active                        | Active Occupancy mode being requested of the unit.  | Space Controller is Configured as Single Setpoint or Dual Setpoint Zone Sensor | Read       | Setpoint Simple with Priority Array |                    | 1 = Occupied<br>2 = Unoccupied<br>3 = Occupied Bypass<br>4 = Occupied Standby<br>5 = Auto              | Input                | 32037             |
| MV-11126          | Supply Fan 1 Communication Status               | Communication Status of the Modbus Supply Fan 1   | Indoor Fan Type Configured as Multi Speed or Variable Speed                    | Read       | NA                                  |                    | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured | Input                | 32038             |
| MV-11127          | Supply Fan 2 Communication Status               | Communication Status of the Modbus Supply Fan 2   | Indoor Fan Type Configured as Multi Speed or Variable Speed                    | Read       | NA                                  |                    | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured | Input                | 32039             |
| MV-11128          | Gas Heat Ignition Module 1 Communication Status | Communication Status of the Modbus Gas Heat Ignition Module 1                             | Primary Heating Source is Configured as Gas                                    | Read       | NA                                  |                    | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured | Input                | 32043             |
| MV-11130          | Emergency Override Status                       | Indicates the active Emergency Override mode in control of the equipment                  | Always   | Read       | NA                                  |                    | 1 = Normal<br>2 = Pressurize<br>3 = Depressurize<br>4 = Purge<br>5 = Shutdown<br>6 = Fire              | Input                | 32042             |
| MV-11133          | Stepper Motor Communication Status              | Communication Status of the Stepper Motor Inputs and Outputs                              | Stepper Motor Module Installed and In-Use                                      | Read       | NA                                  |                    | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured | Input                | 32045             |
| MV-11136          | Heating Reset Type                              | Selectable discharge air heating reset type of outdoor, space, or return air temperature. | System Type is Configured as VVDA and Heat Installed                           | Write      | NA                                  | None               | 1 = None<br>2 = Outdoor air<br>3 = Zone<br>4 = Return Air  | Holding              | 42021             |
| MV-11137          | Heating Reset Type Status                       | Discharge air heating reset type status   | System Type is Configured as VVDA  | Read       | NA                                  |                    | 1 = None<br>2 = Outdoor air<br>3 = Zone<br>4 = Return Air  | Input                | 32048             |



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| Object Identifier | Object Name   | Description  | Configuration Dependency | Read/Write | Arbitration Pattern | Relinquish Default | Object States  | Modbus Register Type | Modbus Register 1 |
|-------------------|---|--|--------------------------|------------|---------------------|--------------------|--|----------------------|-------------------|
| MV-11138          | Compressor 1 VFD Communication Status                 | Communication Status of the Modbus Compressor VFD                              | Efficiency == Ultra High | Read       | NA                  |                    | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured | Input                | 32050             |
| MV-11139          | Refrigerant Leak Sensor Communication Status Sensor A | Communication status of the Modbus communicating refrigerant detection system. | Always                   | Read       | NA                  |                    | 1 = Not Configured<br>2 = Not Communicating<br>3 = Communicating<br>4 = Communicating - Not Configured | Input                | 32052             |

<sup>(a)</sup> Service test states will vary according to unit features. Modes shown here are for illustration purposes.