

High Pressure Atomiser

SKH Series BACnet User Guide









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Introduction

The SKH High Pressure Atomiser Humidifier BACnet[®] Communication Module User Guide provides information about using the humidifier with BACnet communications feature. The BACnet communication protocol for building automation and control networks enables communication between client devices within a network. The humidifier provides a BACnet network interface between BACnet client devices and Neptronic Humidifier series devices. It uses the BACnet Master Slave/Token Passing (MS/TP) protocol at the BACnet MAC layer.

Pre-requisites

The BACnet communication user guide assumes that you are familiar with the concepts of BACnet and its terminology.

Advantages of BACnet

BACnet enabled humidifiers have the following advantages:

- Quick Message Transmission. The humidifier uses a synchronous implementation for BACnet messages making it quick and efficient. Each BACnet confirmed service request is answered as quickly as possible without using the **Reply Postponed** frame. The MS/TP implementation is performed within **Tusage_delay** of 15 minutes to ensure a **Tusage_timeout** value within 20 minutes.
- MS/TP Support. The humidifier supports a Full Master Node state machine for MS/TP. Max_Master and the
 instances are configured to the device object through BACnet WriteProperty service. The MAC address is set
 via the DIP switches. Programming mode determines the MS/TP baud rate setting of 9600, 19200, 38400, and
 76800. In the configuration mode, the device is configured through the device's keypad. For more information
 about the WriteProperty, refer to Table 3 Object Types Supported.
- *BIBB Support*. The humidifier functions the same way as the B-ASC type profile server and supports the specific BIBB as per their relevant definitions.
 - o DS-RP-B
 - o DS-RPM-B
 - o DS-WP-B
 - o DS-WPM-B
 - o DM-DCC-B
 - o DM-DDB-B
 - o DM-DOB-B
 - o DM-RD-B
 - o DM-TS-B
 - o DM-UTC-B
 - o DS-COV-B
 - o DS-COVP-B
 - o SCHED-WS-I-B
- Object Support. The humidifier supports a fixed list of BACnet visible values, which appear as Present_Values of various BACnet standard object types in addition to a device object. For more information, refer to Table 3 Object Types Supported.
- *Alarms*. The humidifier supports indication of various alarm conditions through value changes in properties of several objects. However, it does not generate BACnet event notifications.



BACnet Properties Configuration

To establish communication on the network, and guarantee a unique ID of devices in a BACnet system, the following properties may have to be configured.

Table 1 - BACnet Properties Configuration

| Property | Default Value | Configuration |
|---------------------------|--------------------|---|
| MAC Address | 000 | Set to a value between 000 and 127 via DIP switches. Can also be set to a value between 000 and 254 via menu. The values from 128-254 represent MS/TP non-token passing slave devices. |
| Device Instance | Auto | The humidifier automatically configures its device instance to 153,000 + MAC address. |
| | | The value can be set manually via the menu. |
| | | The value can be set manually through the WriteProperty service to Device Object.Object_Identifier. |
| | | • The device's Object_Identifier is a combination of the Device Object_Type (8) and the Device_Instance (0-4194302), therefore its decimal or hexadecimal representation tends to be incomprehensible. |
| | | For example, the Device_Instance=1000 has an equivalent Object_Identifier of 0x020003E8 hexadecimal or 33555432 decimal. |
| Baud Rate | 0 = Auto | • The humidifier configures its baud rate automatically by detecting the network upon connection. |
| | | • The value can be set manually from the available values of Auto, 9600, 19200, 38400, 76800. |
| Max_Master | 127 | Configure Max_Master value to increase network efficiency when there are less than 127 devices on the network. |
| | | The Max_Master value can be changed through the TRL to configure WriteProperty service to the Device Object.Max_Master. |
| | | For more information, refer to the MAC Address and Max_Master section. |
| Device Object.Object_Name | Name of the device | Configure the name of the device through WriteProperty service to the Device Object.Object_Name . For example, SKH. |



Configuration Options

The following options enable you to configure and run the BACnet features of the humidifiers quickly.

Quick Setup

Configure the humidifier's baud rate and device instance without programming.

- 1. Connect the humidifier to the network and power it up.
- 2. The humidifier automatically configures the baud rate and device instance.
- 3. Repeat the steps for each humidifier.

Manual Setup

- 1. To use a **Device_Instance** other than 153,000, and/or if your site has more than one humidifier network, go to the menu.
- 2. Disconnect the power to the humidifier, connect the humidifier to the network, and connect the power again.
- 3. Configure the Max_Master value through WriteProperty service to the Device Object.Max_Master to increase network efficiency or if there are less than 127 devices on the network.

MAC Address and Max_Master

The MAC address must be unique on the entire MS/TP network. However, having a unique MAC address and a high baud rate does not guarantee efficient operation of the humidifier and other MS/TP units on the MS/TP network. Some MAC address and Max_Master combinations are more efficient than others. BACnet requires token-passing units to occasionally "poll" for other masters based on the MAC address and Max_Master.

A poor combination of MAC addresses and Max_Master can lead to a slower network due to lost time polling for masters that are not present. Unless there are 126 other units on the MS/TP network, the default Max_Master value of 127 is not the most efficient choice for the humidifier. The Max_Master default value of 127 was selected to ensure that any master, specifically a BACnet client can be found when the humidifier is initially started.

Examples of Mac Address and Max_Master Configurations

The following are some of the examples to indicate the optimum combination of Mac address and Max_Master configurations to ensure a quick and efficient output.

Example 1

- MAC=0. Max_Master=127
- MAC=1, Max_Master=127

This configuration is slow and inefficient because every time either unit is required to find another master unit, it has to poll 126 units until it finds the right one to pass the token.

Example 2

- MAC=0. Max_Master=5
- MAC=1 to MAC=4 are not used
- MAC=5, Max_Master=5

This configuration is better than Example 1 but it is still slower. The Max_Master is set to the most efficient value but the gap between the two MAC addresses is high. Therefore, each unit must poll four units until it finds the right one to pass the token.

Example 3

- MAC=0. Max_Master=1
- MAC=2, Max_Master=2

This is an incorrect configuration. The MAC=0 will never find MAC=2 because it will never poll for the master MAC address=2.



Example 4

- MAC=0. Max_Master=3
- MAC=1, Max_Master=3
- MAC=2, Max_Master=3
- MAC=3, Max_Master=3

This is an efficient configuration as the units are numbered consecutively and the MAX_Master is set to the most efficient value. As a general guideline, the most efficient setup for an MS/TP network is one in which the units are consecutively numbered starting at MAC address 0 and having Max_Master=the maximum MAC address in the system. If consecutive numbering is not possible, then the next most efficient setup is one in which all units have Max_Master=the maximum MAC address in the system.

Network Reset

Reset the humidifier via BACnet using the **Reinitialize Device** service. The Reinitialize Device service can be accessed using the following password: **nep.**

The Reinitialize Device service has two types of reset:

- Warm Reset. The Warm Reset restarts the humidifier with actual configuration.
- Cold Reset. The Cold Reset restarts the humidifier with Factory configuration.



Warning: The Cold Reset erases the actual configuration when setting the MSTP address. Therefore, exercise caution while performing a Cold Reset.



Device Object Properties

The following table lists all the BACnet properties supported for the device object. The W indicates that the property is writable using the BACnet **WriteProperty** service.

Table 2 - Device Object Properties

| Property | Value | | |
|--|--|----------------|--|
| Object_Identifier | Programmable where the instance part of the Object_Identifier is in the range of 0-4194302 The device instance must be unique system-wide The default value for the device instance=153000 (Vendor_Identifier*1000) | | |
| Object_Name | SKH | | |
| Description | Programmable up to 32 characters (default: SKH). | W | |
| Object_Type | Device | | |
| System_Status | Operational | | |
| Vendor_Identifier | Always 153 | | |
| Vendor_Name | Always Neptronic | | |
| Model_Name | Example, SKH | Read Only | |
| Firmware_Revision | currently, 2.05 | Read Only | |
| Application_Software_Version | currently, 2.03 | Read Only | |
| Protocol_Version | Always 1 | Read Only | |
| Protocol_Revision | 14 | Read Only | |
| DataBase_Revision | 2 | Read Only | |
| Max_APDU_Length_Accepted | | Read Only | |
| | Always 480 | · · · · · | |
| Segmentation_Supported | (3) = No Segmentation | Read Only | |
| APDU_Timeout Number_of_APDU_Retries | 6000 | W Deed Only | |
| | Always 3 | Read Only | |
| Local_Time | | W | |
| Local_Date | 01-Jan-2015 (Thu) | W | |
| Uts_Offset Daylight_Savings_Status | -3:00 False | W W | |
| Backup_Failure_Timeout | 300 | | |
| Configuration_Files | File-1 | | |
| Last_Restore_Time | 2015-01-01 (Thu), 00:01:50:00 | | |
| Backup_And_Restore_State | | | |
| Backup_Preparation_Time | 0 | | |
| Restore_Completion_Time | 0 | | |
| Restore_Preparation_Time | 0 | | |
| Protocol_Services_Supported | 07470BC83AE200 confirmedCOVNotification subscribeCOV atomicReadFile atomicWriteFile readProperty readProperty who-Has WritePropertyMultiple writePropertyMultiple writePropertyMultiple writePropertyMultiple subscribeCOVProperty | | |
| Protocol_Object_Types_Supported | analog-input analog-output analog-value binary-input binary-output binary-value device file program schedule multi-state-value | | |
| Object_List | 196 | Read Only | |
| Device_Address_Binding | Always empty | | |
| Max_Master | Programmable in the range of 0-127 (default: 127) | | |
| Max_Info_Frames | Always 1 | | |



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| Property | Value | Writable |
|---|--|----------|
| Proprietary property #1000 | Represents the MS/TP MAC address in the range of 0 to 254 (default: 0) Writable if all MAC address DIP switches are OFF Values 128 to 254 represent MS/TP non-token passing slave devices | w |
| Programmable (default: Auto) Proprietary property #1001 • Programmable (default: Auto) • Represents the MS/TP Baud rate (unsigned type) • Values are 0 (auto), 9600, 19200, 38400, 76800 • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always returns the actual Baud rate • Reading this property always • Reading this property always | | w |
| Proprietary property #1002 | Programmable (default: 15 minutes) Represents the period of time that an object in/out of service will automatically return to normal. Range = 0-120 minutes (unsigned type) Writing 0 means no automatic return to normal | w |

Object Types Supported

The following table lists all the BACnet properties supported for each object type. Most of the properties are locked. The exception is **Present_Value**, which represents the dynamic operating values of the device, and the Status_Flag, Event_State, and Reliability properties, which reflect the availability of the **Present_Value**. Unless otherwise specified, properties are not changeable.

Table 3 - Object Types Supported

| Object Type | Enabled | Optional Properties Supported | Writable Properties | Notes |
|------------------|---------|---|--|---|
| Analog Input | Ø | Reliability Description Min_Present_Value Max_Present_Value Resolution COV-Increment | Out_of_Service COV-Increment | If "Out of Service" is true, Present_Value and Status_Flag become writable properties. Out_of_Service property is writable for objects to which Present_Value is not writable. Refer to Out of Service Property section on page 7 for more information. Object will automatically return to Normal after a programmable period of time. Refer to Proprietary property #1002 of Device Object in Table 2 - Device Object Properties. |
| Analog Value | V | Reliability Description COV-Increment Priority_Array Relinquish_Default | Present_Value Out_of_Service COV-Increment | Present_Value property is writable for every AV object except AV.20, AV.23, AV.40, AV.45, AV.55 Out_of_Service property is writable for objects indicated in Table 6 - Object Table Information: Analog Value (AV) on page 9. Refer to Out of Service Property section on page 7 for more information. Object will automatically return to Normal after a programmable period of time. Refer to Proprietary property #1002 of Device Object in Table 2 - Device Object Properties. Some objects are commandable. In such case, the priority-array and relinquish-default properties are available. Writable properties are different for some objects. Refer to the respective Object Table information to know the writable property for each AV object. |
| Analog Output | Ø | Description Reliability Min-Pres-Value Max-Pres-Value Resolution COV-Increment | Present_Value COV-Increment | Present_Value property is writable as per Analog Output (AO) table on page 8. |
| Binary Input | Ø | Reliability Active_Text Inactive_Text Description | Out_of_Service | If "Out of Service" is true, Present_Value and Status_Flag become writable properties. Out_of_Service property is writable for objects to which Present_Value is not writable. Refer to Out of Service Property section on page 7 for more information. Object will automatically return to Normal after a programmable period of time. Refer to Proprietary property #1002 of Device Object in Table 2 - Device Object Properties. |
| Binary Value | Ø | Reliability Active_Text Inactive_Text Description | Present_Value | Present_Value property is writable for every Binary Value object. Writable properties are different for some objects. Refer to the respective Object Table information to |



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| Object Type | Enabled | Optional Properties Supported | Writable Properties | Notes |
|--------------------------|---------|--|--|--|
| | | Priority_Array Relinquish_Default | | know the writable property for each BV object. Out_of_Service property is writable for every Binary Value object. Some objects are commandable. In such case, the priority-array and relinquish-default properties are available. Object automatically returns to Normal after a programmable time. Refer to Proprietary property #1002 of Device Object in Table 2 - Device Object Properties. |
| Binary Output | Ø | description reliability inactive-text active-text | Present_Value | Present_Value property is writable. |
| Device | V | Max_Master Max_Info_Frame Description active-cov-subscriptions #1000 (MSTP addr) #1001 (Baud rate) #1002 (Time out) Local_Time Local_Date Uts_Offset Daylight_Savings_Status Apdu_Timeout Backup_Failure_Timeout | Object_Identifier Object_Name Max_Master Description Local_Time Local_Date Uts_Offset Daylight_Savings_Status Apdu_Timeout Backup_Failure_Timeout #1000 #1001 #1002 Configuration_Files Last_Restore_Time Backup_And_Restore_State Backup_Preparation_Time Restore_Preparation_Time Restore_Preparation_Time | Refer to Table 2 - Device Object Properties on page 5. |
| Multi- State Value | V | Description Reliability States_Text | Present_Value | Present_Value property is writable for every Multi State Value object except MSV.12, MSV.13, MSV.15 Writable properties are different for some objects. Refer to the respective Object Table information to know the writable property for each MSV object. Out_of_Service property is not writable for MSV. |

Out of Service Property

Neptronic humidifiers offer the use of the Out of Service writable property. When the value of this property is set to True, it disconnects the object from the physical input, enabling you to input other values. This is useful for special applications or while troubleshooting. For example, you can ignore the temperature read from a sensor and input the desired temperature value in order to perform specific tests.

For security reasons, a timeout will set the Out of Service property back to False after 15 minutes. This value can be modified to between 0 and 120 minutes (For more information, see proprietary property #1002 in *Table 2 - Device Object Properties*).



Object Table Information

The SKH series uses the following BACnet object tables, categorized on the basis of their ID. The type is the BACnet Object type, the instance is the BACnet Object. Together, the type and instance form the **BACnet Object_Identifier** for an object according to the following C-language algorithm:

• object_identifier=(unsigned long)((unsigned long)type<<22)+instance

Analog Input (AI)

Table 4 - Object Table Information: Analog Input (AI)

| ID | ID Name Description | | W? | Notes |
|------------|---------------------|--|----------------|---------------------------------|
| Integrator | | | | |
| AI.1 | SKHBoardTemp | Displays the temperature reading measured on the SKH PC board. | Out of Service | 0°C to 100°C, Resolution: 0.1°C |

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| ID | Name | Description | W? | Notes |
|------------|---------------------------------------|--|----------------|--|
| Integrator | | | | |
| AI.3 | RoomRHSetpoint or RoomTempSetpoint | Displays the setpoint for the room relative humidity sensor. OR Displays the setpoint for the room temperature sensor. | Out of Service | 0.0 to 100.0%RH or 10°C to 40°C, Resolution 0.1%RH or 0.01°C |
| AI.4 | RoomRH | Displays the reading of the relative humidity in the room. | Out of Service | 0.0 to 100.0%RH, Resolution 0.1%RH |
| AI.5 | RoomTemp | Displays the temperature reading of the room. | Out of Service | -100°C to 100°C, Resolution 0.01°C |
| AI.6 | DuctRH | Displays the relative humidity reading of the duct. | Out of Service | 0.0 to 100.0%RH, Resolution 0.1%RH |
| AI.7 | TrlhRH | Displays the value of the relative humidity measured on the TRL. | Out of Service | 0.0 to 100.0%RH, Resolution 0.1%RH |
| AI.8 | TrlhTemp | Displays the value of the temperature measured on the TRL. | Out of Service | 0°C to 50°C, Resolution 0.01°C |
| AI.9 | BoardTemp | Displays the temperature reading measured on the PC board. | Read Only | 0°C to 100°C, Resolution 0.01°C |
| Advanced | | | | |
| AI.200 | DI4_TpmDuty | | Out of Service | 0 milliseconds to 1000 milliseconds, Resolution 1millisecond |



Analog Output (AO)

Table 5 - Object Table Information: Analog Output (AO)

| ID | Name | Description | W? | Notes |
|------|-----------------|---|---------------|--|
| AO.1 | FeedbackVoltage | Configuration value of the output feedback voltage. | Present Value | 0 millivolts to 10440 millivolts, Resolution 1 millivolt |

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| ID | Name | Description | W? | Notes |
|------|-----------------|---|---------------|--|
| AO.1 | FeedbackVoltage | Configuration value of the output feedback voltage. | Present Value | 0 millivolts to 10440 millivolts, Resolution 1 millivolt |

Analog Value (AV)

Table 6 - Object Table Information: Analog Value (AV)

| ID | Name | Description | W? | Notes |
|-------------|-------------------------------|---|----------------|---|
| Integrator | | | | |
| AV.1 | PumpDemand | Displays the pump demand of the system. | Read Only | 0% to 100%, Resolution 0.01% |
| AV.2 | SystemZoneDemand | Displays the zone demand of the system. | Read Only | 0% to 100%, Resolution 0.01% |
| AV.3 | SimulationDuration | Duration of Simulation mode. | Present Value | 5 to 60 minutes, Resolution 1 minute |
| AV.4 | SimulationZoneSelection | Configuration value for the selection of the number of zones in simulation. | Present Value | 1 to 10, Resolution 1 |
| AV.5 | SimulationZoneDemand | Configuration value of the demand of the simulation zones. | Present Value | 0 to 4, Resolution 1 |
| AV.6 | SimulationPumpSelection | Configuration value for the selection of the simulation pump. | Present Value | 1 to 4, Resolution 1 |
| AV.7 | SimulationPumpDemand | Configuration value for the selection of pump demand for Simulation mode. | Present Value | 0 to 100%, Resolution 1% |
| AV.8 | SimulationDowncounter | Configuration vale for the simulation mode downcounter. | Out of Service | 0 to 3600 seconds, Resolution 1 second |
| AV.9 | SystemPumpCapacity | Displays the pump capacity of the system. | Read Only | 0 to 42949672.95 kg/hr, Resolution 0.01 kg/hr |
| AV.11 | SystemZoneCapacity | Displays the zone capacity of the system. | Read Only | 3.2 to 1451488 kg/hr, Resolution 0.01 kg/hr |
| AV.12 | SystemNumOfZones | Displays the number of zones for the system. | Read Only | 0 to 10, Resolution 1 |
| Integrator- | Configuration | | | |
| AV.100 | Cfg_SystemInactivityDelay | Configuration value of the system inactivity delay. | Present Value | 4 to 72 hours, Resolution 1 hour |
| AV.101 | Cfg_SystemInactivityDrainTime | Configuration value of the system inactivity drain time. | Present Value | 1 to 255 minutes, Resolution 1 minute |
| Advanced | | | | |
| AV.204 | PumpFeedback | Displays the feedback value of pump. | Read Only | 0 to 100, Resolution 0.01 |



| ID | Name | Description | W? | Notes |
|------------|-----------------------------|--|---------------|---------------------------------------|
| AV.208 | PumpInletTemp | Displays the inlet temperature of pump. | Read Only | -10°C to 10°C, Resolution 0.01°C |
| AV.212 | PumpInletPressure | Displays the Inlet pressure of pump. | Read Only | 0 to 60000KPa, Resolution 0.1KPa |
| AV.216 | PumpOutputPressure | Displays the output pressure of pump. | Read Only | 0 to 60000KPa, Resolution 0.1KPa |
| AV.220 | PumpDutyTime | Displays the duty time of pump. | Read Only | 0 to 42949672.95, Resolution 1 |
| AV.224 | PumpWeightedDutyTime | Displays the weighted duty time of pump. | Read Only | 0 to 42949672.95, Resolution 1 |
| Advanced - | Configuration | | | |
| AV.300 | Cfg_PumpInactivityDelay | Configuration value of the pump inactivity delay. | Present Value | 4 to 72 hours, Resolution 1 hour |
| AV.304 | Cfg_PumpInactivityDrainTime | Configuration value of the pump inactivity drain time. | Present Value | 1 to 255 seconds, Resolution 1 second |

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| ID | Name | Description | W? | Notes |
|------------|-------------------------|---|----------------|---------------------------------------|
| Integrator | | | | |
| AV.1 | ZoneDemand | Configuration value of the zone demand. | Present Value | 0% to 100%, Resolution 0.01% |
| AV.2 | SimulatedDemand | Configuration value of the simulated demand. | Present Value | 0% to 4%, Resolution 1% |
| AV.3 | ZoneOutput | Displays the value of the zone output. | Out of Service | 0% to 100%, Resolution 0.01% |
| AV.4 | ZoneOuputLimit | Configuration value of the maximum zone output limit. | Present Value | 0% to 100%, Resolution 0.01% |
| AV.5 | UnoccupiedRHSetpoint | Configuration value of the relative humidity setpoint in the unoccupied mode. | Present Value | 5% RH to 95% RH, Resolution 0.1% RH |
| AV.6 | UnoccupiedTempSetpoint | Configuration value of the temperature setpoint in the unoccupied mode. | Present Value | 10°C to 40°C, Resolution 0.01°C |
| AV.7 | VacantRHSetpoint | Configuration value of the relative humidity setpoint in the vacancy mode. | Present Value | 5% RH to 95% RH, Resolution 0.1% RH |
| AV.8 | VacantTempSetpoint | Configuration value of the temperature setpoint in the vacancy mode. | Present Value | 10°C to 40°C, Resolution 0.01°C |
| AV.9 | InternalRHSetpoint | Configuration value of the internal relative humidity setpoint. | Present Value | 5% RH to 95% RH, Resolution 0.1% RH |
| AV.10 | InternalTempSetpoint | Configuration value of the internal temperature setpoint. | Present Value | 10°C to 40°C, Resolution 0.01°C |
| AV.11 | NetworkRHSetpoint | Configuration value of the network relative humidity setpoint. | Present Value | 5% RH to 40% RH, Resolution 0.1% RH |
| AV.12 | NetworkTempSetpoint | Configuration value of the network temperature setpoint. | Present Value | 10°C to 40°C, Resolution 0.01°C |
| AV.13 | NetworkRH | Configuration value of the network relative humidity. | Present Value | 0% to 100%, Resolution 0.1% |
| AV.14 | NetworkTemp | Configuration value of the network temperature. | Present Value | 0°C to 50°C, Resolution 0.01°C |
| AV.15 | NetworkDowncounter | Displays the value of the network downcounter. | Out of Service | 1 to 900 seconds, Resolution 1 second |
| AV.100 | Cfg_InactivityDelay | Configuration value of the system inactivity delay. | Present Value | 4 to 72 hours, Resolution 1 hour |
| AV.101 | Cfg_InactivityDrainTime | Configuration value of the inactivity delay of drain. | Present Value | 1 to 255 seconds, Resolution 1 second |



| ID | Name | Description | W? | Notes |
|------------|--------------------------|--|---------------|---|
| AV.102 | Cfg_NetworkTimeout | Configuration value of the network timeout. | Present Value | 1 to 15 minutes, Resolution 1 minute |
| AV.103 | Cfg_FanOnDelay | Configuration value of the delay in seconds before the fan is turned on. | Present Value | 1 to 255 seconds, Resolution 1 second |
| AV.104 | Cfg_FanOffDelay | Configuration value of the delay in seconds before the fan is turned off. | Present Value | 1 to 255 seconds, Resolution 1 second |
| Advanced | | | | |
| AV.200 | Stage1Runtime | Displays the value of the stage 1 runtime. | Read Only | 0 to 42949672.95, Resolution 1 |
| AV.201 | Stage2Runtime | Displays the value of the stage 2 runtime. | Read Only | 0 to 42949672.95, Resolution 1 |
| AV.202 | Stage3Runtime | Displays the value of the stage 3 runtime. | Read Only | 0 to 42949672.95, Resolution 1 |
| AV.203 | Stage4Runtime | Displays the value of the stage 4 runtime. | Read Only | 0 to 42949672.95, Resolution 1 |
| Advanced - | - Configuration | | | |
| AV.300 | Cfg_DuctRHSetpoint | Configuration value of the duct relative humidity setpoint. | Present Value | 10% RH to 90% RH, Resolution 0.1% RH |
| AV.301 | Cfg_DuctRHCutout | Configuration value of the duct relative humidity cutout. | Present Value | 50% RH to 95% RH, Resolution 0.1% RH |
| AV.302 | Cfg_DuctRHPropBand | Configuration value of the duct relative humidity proportional band. | Present Value | 5% RH to 50% RH, Resolution 0.1% RH |
| AV.303 | Cfg_DuctRHIntegralTime | Configuration value of the duct relative humidity integral time. | Present Value | 0 to 600 seconds, Resolution 1 second |
| AV.304 | Cfg_DuctRHDerivateTime | Configuration value of the duct relative humidity derivate time. | Present Value | 0 to 60 seconds, Resolution 0.1 seconds |
| AV.305 | Cfg_RHProportionalBand | Configuration value of the relative humidity proportional band. | Present Value | 1% RH to 20% RH, Resolution 0.1%RH |
| AV.306 | Cfg_TempProportionalBand | Configuration value of the temperature proportional band. | Present Value | 0.5°C to 50°C, Resolution 0.01°C |
| AV.307 | Cfg_IntegralTime | Configuration value of the integral time. | Present Value | 0 to 600 seconds, Resolution 1 second. |
| AV.308 | Cfg_DifferentialTime | Configuration value of the differential time. | Present Value | 0 to 60 seconds, Resolution 0.1 second |
| AV.309 | Cfg_TrlhRHSetpointMin | Configuration value of the minimum relative humidity setpoint measured by the TRL. | Present Value | 5% RH to AV.310, Resolution 0.1% RH |
| AV.310 | Cfg_TrlhRHSetpointMax | Configuration value of the maximum relative humidity setpoint measured by the TRL. | Present Value | AV.309 to 95% RH, Resolution 0.1% RH |
| AV.311 | Cfg_TrlhTempSetpointMin | Configuration value of the minimum temperature setpoint measured by the TRL. | Present Value | 10°C to AV.312, Resolution 0.01°C |
| AV.312 | Cfg_TrlhTempSetpointMax | Configuration value of the maximum temperature setpoint measured by the TRL. | Present Value | AV.311 to 40°C, Resolution 0.01°C |
| AV.313 | Cfg_RoomRHSetpointMin | Configuration value of the minimum relative humidity setpoint of the room. | Present Value | 0% RH to AV.314, Resolution 0.1% RH |
| AV.314 | Cfg_RoomRHSetpointMax | Configuration value of the maximum relative humidity setpoint of the room. | Present Value | AV.313 to 100% RH, Resolution 0.1% RH |
| AV.315 | Cfg_RoomTempSetpointMin | Configuration value of the minimum temperature setpoint of the room. | Present Value | 10°C to AV.316, Resolution 0.01°C |
| AV.316 | Cfg_RoomTempSetpointMax | Configuration value of the maximum temperature setpoint of the room. | Present Value | AV.315 to 40°C, Resolution 0.01°C |
| AV.317 | Cfg_RoomRHMin | Configuration value of the minimum relative humidity of the room. | Present Value | 0%RH to AV.317, Resolution 0.1%RH |
| AV.318 | Cfg_RoomRHMax | Configuration value of the maximum relative humidity of the room. | Present Value | AV.316 to 100%RH, Resolution 0.1%RH |



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| ID | Name | Description | W? | Notes |
|--------|----------------------------|--|---------------|---|
| AV.319 | Cfg_RoomTempMin | Configuration value of the minimum temperature of the room. | Present Value | 10°C to AV.320, Resolution 0.01°C |
| AV.320 | Cfg_RoomTempMax | Configuration value of the maximum temperature of the room. | Present Value | AV.319 to 40°C, Resolution 0.01°C |
| AV.321 | Cfg_StageOnDelay | Configuration value of the delay before each stage is on. | Present Value | 1 to 255 seconds, Resolution 1 second |
| AV.323 | Cfg_TPMStagePeriod | Configuration value of the TPM stage period. | Present Value | 30 to 60 seconds, Resolution 0.001 second |
| AV.324 | Cfg_RoomRHSetpointOffset | Configuration value of the relative humidity setpoint offset value of the room. | Present Value | -10% RH to 10% RH, Resolution 0.1% RH |
| AV.325 | Cfg_RoomTempSetpointOffset | Configuration value of the temperature setpoint offset value of the room. | Present Value | -10°C to 10°C, Resolution 0.01°C |
| AV.326 | Cfg_RoomRHSOffset | Configuration value of the relative humidity offset value of the room. | Present Value | -10% RH to 10% RH, Resolution 0.1% RH |
| AV.327 | Cfg_RoomTempOffset | Configuration value of the temperature offset value of the room. | Present Value | -10°C to 10°C, Resolution 0.01°C |
| AV.328 | Cfg_DuctRHOffset | Configuration value of the relative humidity offset value of the room. | Present Value | -10% RH to 10% RH, Resolution 0.1% RH |
| AV.329 | Cfg_BoardTempOffset | Configuration value of the temperature offset value of the board. | Present Value | -10°C to 10°C, Resolution 0.01°C |
| AV.330 | Cfg_TrlhRoomRHOffset | Configuration value of the relative humidity offset value of the room measured by the TRL. | Present Value | -10% RH to 10% RH, Resolution 0.1% RH |
| AV.331 | Cfg_TRLRoomTempOffset | Configuration value of the temperature offset value of the room measured by the TRL. | Present Value | -10°C to 10°C, Resolution 0.01°C |

Binary Input (BI)

Table 7 - Object Table Information: Binary Input (BI) (SKH EZC)

| ID | Name | Description | W? | Notes |
|------|---------------------|---|---------------------------------|---------------------|
| BI.1 | DI1_AirflowCutout | Select whether to open or close the airflow cutout. | Out of Service Present Value | 0 = Open, 1 = Close |
| BI.2 | DI2_DuctRHCutout | Select whether to open or close the duct RH cutout. | Out of Service Present Value | 0 = Open, 1 = Close |
| BI.3 | DI3_InterlockCutout | Select whether to open or close the interlock cutout. | Out of Service Present Value | 0 = Open, 1 = Close |
| BI.4 | DI4_BinaryDemand | Select whether to open or close the binary demand. | Out of Service Present Value | 0 = Open, 1 = Close |



Binary Output (BO)

Table 8 - Object Table Information: Binary Output (BO)

| ID | Name | Description | W? | Notes |
|------|------------------|--|--|--------------------------|
| BO.1 | AlarmRelay | Select whether to open or close the alarm relay. Closed when any alarm is on but AirFlowCutout and ServiceWarning. | Present Value Relinquish Default | 0 = Open, 1 = Close |
| BO.2 | MaintenanceRelay | Select whether to open or close the maintenance relay. Closed when ServiceAlarm or ServiceWarning is on. | Present Value Relinquish Default | 0 = Open, 1 = Close |
| BO.3 | Buzzer | Select whether to activate or not the buzzer. ON when a key push event is acknowledged and KeyBeep is on or when AlarmRelay is closed and AlarmBeep is on. | Present Value | 0 = Inactive, 1 = Active |

SKH EZC

| ID | Name | Description | W? | Notes | |
|------------|------------|-------------------------------------|-----------|-----------------|--|
| Integrator | | | | | |
| BO.1 | FanControl | Displays the status of Fan control. | Read Only | 0 =Off, 1 = On | |
| Advanced | Advanced | | | | |
| BO.200 | ZoneDrain | Displays the status of zone drain. | Read Only | 0 = Off, 1 = On | |
| BO.201 | ZoneInlet | Displays the status of zone inlet. | Read Only | 0 =Off, 1 = On | |

Binary Value (BV)

Table 9 - Object Table Information: Binary Value (BV)

| ID | Name | Description | W? | Notes |
|------------|------------------------|---|---------------|--------------------------|
| Integrator | | | | |
| BV.1 | SystemMode | Select to whether to enable or disable the system mode. | Present Value | 0 = Off, 1 = On |
| BV.2 | SimulationState | Displays the status of the simulation state. | Read Only | 0 = Off, 1 = On |
| BV.3 | SimulationPumpOverride | Displays the status of the simulation pump override. | Read Only | 0 = Off, 1 = On |
| BV.4 | SystemDrainPending | Displays the status of the system drain pending. | Read Only | 0 = Off, 1 = On |
| BV.5 | SystemDrain | Displays the status of the system drain. | Read Only | 0 = Off, 1 = On |
| BV.6 | SystemZoneDemand | Displays the status of system zone demand. | Read Only | 0 = Off, 1 = On |
| BV.7 | WaterPressureState | Displays the status of the water pressure state. | Read Only | 0 = Not Ready, 1 = Ready |

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| ID | Name | Description | W? | Notes |
|--------------|------------------------------------|--|-----------|-----------------|
| BV.8 | UVLampChangeDue | Displays the status of the UV lamp change due. | Read Only | 0 = Off, 1 = On |
| Integrator - | Alarms | | | |
| BV.50 | AL_ServiceWarning | Displays the status of the service warning. It indicates the upcoming cleaning for the humidifier. The warning is displayed when cleaning is due in 100 hours or less. | Read Only | 0 = Off, 1 = On |
| BV.51 | AL_ServiceAlarm | Displays the status of the service alarm. The alarm is triggered when cleaning, UV lamp change or Silver Ion cartridge change is due. | Read Only | 0 = Off, 1 = On |
| BV.52 | AL_PumpGlobalAlarmMask | Displays the status of the pump global alarm mask. | Read Only | 0 = Off, 1 = On |
| BV.56 | AL_GlobalPumpComTimeout | Displays the status of the global pump communication timeout. | Read Only | 0 = Off, 1 = On |
| BV.57 | AL_GlobalZoneComTimeout | Displays the status of the global zone communication timeout. | Read Only | 0 = Off, 1 = On |
| Advanced | | | | |
| BV.200 | PumpDrainValve | Displays the status of pump drain valve. | Read Only | 0 = Off, 1 = On |
| BV.204 | PumpEnableVFD | Displays the status of the pump enable VFD. | Read Only | 0 = Off, 1 = On |
| BV.210 | AL_PumpInletTempSensorFailure | Displays the status of the pump inlet temperature sensor failure. | Read Only | 0 = Off, 1 = On |
| BV.214 | AL_PumpInletPressureSensorFailure | Displays the status of the pump inlet pressure sensor failure. | Read Only | 0 = Off, 1 = On |
| BV.218 | AL_PumpOutputPressureSensorFailure | Displays the status of the pump output pressure sensor failure. | Read Only | 0 = Off, 1 = On |
| BV.222 | AL_PumpVFDFailure | Displays the status of the pump VFD failure. | Read Only | 0 = Off, 1 = On |
| BV.226 | AL_PumpInletTempTooHigh | Displays the status of the pump if the inlet water temperature of pump is above the maximum temperature. | Read Only | 0 = Off, 1 = On |
| BV.230 | AL_PumpInletTempTooLow | Displays the status of the pump if the inlet water temperature of pump is below the minimum temperature. | Read Only | 0 = Off, 1 = On |
| BV.234 | AL_PumpInletPressureToLow | Displays the status of the pump if the inlet pressure of pump is below the minimum pressure. | Read Only | 0 = Off, 1 = On |
| BV.238 | AL_PumpInletPressureToHigh | Displays the status of the pump if the inlet pressure of pump is above the maximum pressure. | Read Only | 0 = Off, 1 = On |
| BV.242 | AL_PumpOutputPressureTooLow | Displays the status of the pump if the output pressure of pump is below the minimum pressure. | Read Only | 0 = Off, 1 = On |
| BV.246 | AL_PumpOutputPressureTooHigh | Displays the status of the pump if the output pressure of pump is above the maximum pressure. | Read Only | 0 = Off, 1 = On |
| BV.250 | AL_PumpTemperatureTooHigh | Displays the status of the pump if the temperature of pump is above the maximum temperature. | Read Only | 0 = Off, 1 = On |
| BV.254 | AL_PumpServiceAlarm | Displays whether the service alarm for the pump if currently enabled signifying the service due for the pump. | Read Only | 0 = Off, 1 = On |
| BV.258 | AL_PumpPressurizingTimeout | Displays the status of the communication timeout for pressurizing of pump. | Read Only | 0 = Off, 1 = On |

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| ID | Name | Description | W? | Notes |
|--------|-----------------------|--|-----------|-----------------|
| BV.262 | AL_PumpCoolingTimeout | Displays the status of the communication timeout for the cooling of pump. | Read Only | 0 = Off, 1 = On |
| BV.266 | AL_PumpInvalidConfig | Displays the status of configuration of the pump. | Read Only | 0 = Off, 1 = On |
| BV.270 | AL_PumpComTimeout | Displays the status of the communication timeout of pump. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.274 | AL_Zone1ComTimeout | Displays the status of communication timeout for the zone 1. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.275 | AL_Zone2ComTimeout | Displays the status of communication timeout for the zone 2. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.276 | AL_Zone3ComTimeout | Displays the status of communication timeout for the zone 3. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.277 | AL_Zone4ComTimeout | Displays the status of communication timeout for the zone 4. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.278 | AL_Zone5ComTimeout | Displays the status of communication timeout for the zone 5. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.279 | AL_Zone6ComTimeout | Displays the status of communication timeout for the zone 6. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.280 | AL_Zone7ComTimeout | Displays the status of communication timeout for the zone 7. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 =On |
| BV.281 | AL_Zone8ComTimeout | Displays the status of communication timeout for the zone 8. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.282 | AL_Zone9ComTimeout | Displays the status of communication timeout for the zone 9. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |
| BV.283 | AL_Zone10ComTimeout | Displays the status of communication timeout for the zone 10. It indicates that the communication delay is too long. | Read Only | 0 = Off, 1 = On |

SKH EZC

| ID | Name | Description | W? | Notes |
|------------|--------------------|--|---------------|--------------------------|
| Integrator | | | | |
| BV.1 | SystemMode | Displays the status of the system mode. | Read Only | 0 = Off 1 = On |
| BV.2 | ZoneMode | Select whether to enable or disable the zone mode. | Present Value | 0 = Off, 1 = On |
| BV.3 | WaterPressure | Displays the status of the water pressure. | Read Only | 0 = Not Ready, 1 = Ready |
| BV.4 | LimitedByDuctRH | Displays the status of the duct relative humidity. | Read Only | 0 = Off, 1 = On |
| BV.30 | AL_GlobalAlarmMask | Displays the status of the global alarm mask. | Read Only | 0 = Off, 1 = On |
| BV.31 | AL_DuctRHCutout | Displays the status of the duct relative humidity cutout. | Read Only | 0 = Off, 1 = On |
| BV.32 | AL_AirflowCutout | Displays the status of the airflow cutout. | Read Only | 0 = Off, 1 = On |
| BV.33 | AL_InterlockCutout | Displays the status of the interlock cutout. | Read Only | 0 = Off, 1 = On |
| BV.34 | AL_NoCoordinator | Displays the status of the communication between the master PCB and EZC. It indicates that the communication has been lost between EZC and SKH Master PCB alarm. | Read Only | 0 = Off, 1 = On |



| ID | Name | Description | W? | Notes |
|--------------|----------------------------|---|---------------|-----------------------------|
| BV.35 | AL_TrlhTimeout | Displays the status of the communication timeout between the EZC and controller. It indicates that the communication delay is too long between EZC and TRL alarm. | Read Only | 0 = Off, 1 = On |
| BV.36 | AL_NetworkTimeout | Displays the status of the communication timeout for the network. | Read Only | 0 = Off, 1 = On |
| BV.37 | AL_InvalidConfiguration | Displays the status of the configuration. | Read Only | 0 = Off, 1 = On |
| Integrator - | Configuration | | | |
| BV.100 | Cfg_EnableFanControl | Select whether to enable or disable the fan control. | Present Value | 0 = Off, 1 = On |
| BV.101 | Cfg_InhibitAirFlowCutout | Select whether to enable or disable the inhibit airflow cutout. | Present Value | 0 = Off, 1 = On |
| BV.102 | Cfg_NetworkControlOverride | Select whether to enable or disable the network control override. | Present Value | 0 = Off, 1 = On |
| BV.103 | Cfg_NetworkTempUnits | Select the temperature unit. | Present Value | 0 = Celsius, 1 = Fahrenheit |
| BV.104 | Cfg_NetworkMassFlowUnits | Select the mass flow unit. | Present Value | 0 = kg/h, 1 = lb/h |
| BV.105 | Cfg_TRLHTempUnits | Select the temperature unit on the TRL. | Present Value | 0 = Celsius, 1 = Fahrenheit |
| BV.106 | Cfg_TRLHSetpointLock | Select whether to lock the setpoint on the TRL. | Present Value | 0 = Off, 1 = On |
| BV.107 | Cfg_TRLHZoneModeLock | Select whether to lock the zone mode on the TRL. | Present Value | 0 = Off, 1 = On |
| BV.108 | Cfg_TRLHDisplayTime | Select whether to display the time on the TRL. | Present Value | 0 = Off, 1 = On |
| BV.109 | Cfg_TRLHTimeFormat | Select the time format on the TRL. | Present Value | 0 = 24H, 1= 12H |
| Advanced | | | | |
| BV.200 | SimulationState | Displays the state of simulation mode. | Read Only | 0 = Off, 1 = On |
| BV.201 | Stage1Output | Select whether to enable or disable the output value of stage 1. | Present Value | 0 = Off, 1 = On |
| BV.203 | Stage2Output | Select whether to enable or disable the output value of stage 2. | Present Value | 0 = Off, 1 = On |
| BV.204 | Stage3Output | Select whether to enable or disable the output value of stage 3. | Present Value | 0 = Off, 1 = On |
| BV.205 | Stage4Output | Select whether to enable or disable the output value of stage 4. | Present Value | 0 = Off, 1 = On |
| BV.230 | AL_BoardSensorFailure | Displays the status of the alarm for the failure of the broad sensor. It indicates that the PCB temperature is above the maximum temperature. | Read Only | 0 = Off, 1= On |
| BV.231 | AL_RoomRHSensorFailure | Displays the status of the alarm for the failure of the room relative humidity sensor. | Read Only | 0 = Off, 1 = On |
| BV.232 | AL_RoomTempSensorFailure | Displays the status of the alarm for the failure of the room temperature sensor. | Read Only | 0 = Off, 1 = On |
| BV.233 | AL_DuctRHSensorFailure | Displays the status of the alarm for the failure of the duct relative humidity sensor. | Read Only | 0 = Off, 1 = On |
| BV.234 | AL_TrlhRHSensorFailure | Displays the status of the alarm for the failure of the controller relative humidity sensor. | Read Only | 0 = Off, 1 = On |
| BV.235 | AL_TrlhTempSensorFailure | Displays the status of the alarm for the failure of the controller temperature sensor. | Read Only | 0 = Off, 1 = On |



Multi State Value (MSV)

Table 10 - Object Table Information: Multi State Value (MSV)

| ID | Name | Description | W? | Notes |
|--------------|--------------------|--|---------------|---|
| Integrator | | | | |
| MSV.1 | PumpState | Displays the status of pump. | Read Only | 1 = Stand-by 2 = Start Pump 3 = Pressurizing 4 = Ready 5 = Cooling 6 = Manual Prime 7 = System Drain 8 = Inactivity Drain 9 = Alarm 10 = Closing |
| Integrator - | - Configuration | | | |
| MSV.100 | Cfg_PressureUnits | Configuration value to select the pressure units. | Present Value | 1 = kPa 2 = PSI 3 = Bar |
| MSV.101 | Cfg_Language | Select the language of the BACnet server. | Present Value | 1 = English |
| MSV.102 | Cfg_ObjectListMode | Configuration value to select the category of BACnet objects to display. | Present Value | 1 = Integrator 2 = Advanced 3 = Factory |

SKH EZC

| ID | Name | Description | W? | Notes |
|------------|-----------|---|---------------|--|
| Integrator | | | | |
| MSV.1 | ZoneState | Displays the status of zone. | Read Only | 1 = POR 2 = Alarm 3 = Stand-By 4 = Drain Stages 5 = Drain Lines 6 = Ready |
| MSV.2 | Occupancy | Configuration value of the current occupancy state. | Present Value | 1 = Occupied 2 = Unoccupied 3 = Vacant 4 = Off |



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| ID | Name | Description | W? | Notes |
|--------------|---------------------------|--|---------------|---|
| Integrator - | - Configuration | | | |
| MSV.100 | Cfg_ControlMode | Configuration value to select the control mode. | Present Value | 1 = External Al3 2 = Internal RH 3 = Internal Temp 4 = Internal Alternating 5 = Network |
| MSV.101 | Cfg_ControlRHSource | Configuration value to select the control humidity source. | Present Value | 1 = None 2 = Al4 3 = TRLH 4 = Network |
| MSV.102 | Cfg_ControlTempSource | Configuration value to select the control temperature source. | Present Value | 1 = None 2 = Al5 3 = TRLH 4 = Network |
| MSV.103 | Cfg_ControlSetpointSource | Configuration value to select the control setpoint source. | Present Value | 1 = Al3 2 = Internal 3 = Network |
| MSV.104 | Cfg_HighLimitSource | Configuration value to select high limit source for analog input 1. | Present Value | 1 = None 2 = Al6 3 = Network |
| MSV.105 | Cfg_ObjectListMode | Configuration value to select the category of BACnet objects to display. | Present Value | 1 = Integrator 2 = Advanced 3 = Factory |
| Advanced | | | | |
| MSV.300 | Cfg_Al3Signal | Select the signal type for the analog input 3. | Present Value | 1 = 0-10Vdc 2 = 2-10Vdc |
| MSV.301 | Cfg_Al4Signal | Select the signal type for the analog input 4. | Present Value | 1 = 0-10Vdc 2 = 2-10Vdc |
| MSV.302 | Cfg_Al5Signal | Select the signal type for the analog input 5. | Present Value | 1 = 0-10Vdc 2 = 2-10Vdc |
| MSV.303 | Cfg_Al6Signal | Select the signal type for the analog input 6. | Present Value | 1 = 0-10Vdc 2 = 2-10Vdc |



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| ID | Name | Description | W? | Notes |
|---------|--------------------|---|---------------|--------------------------|
| MSV.304 | Cfg_FeedbackSignal | Select the signal type for the feedback signal. | Present Value | 1 = 0-20mA 2 = 4-20mA |

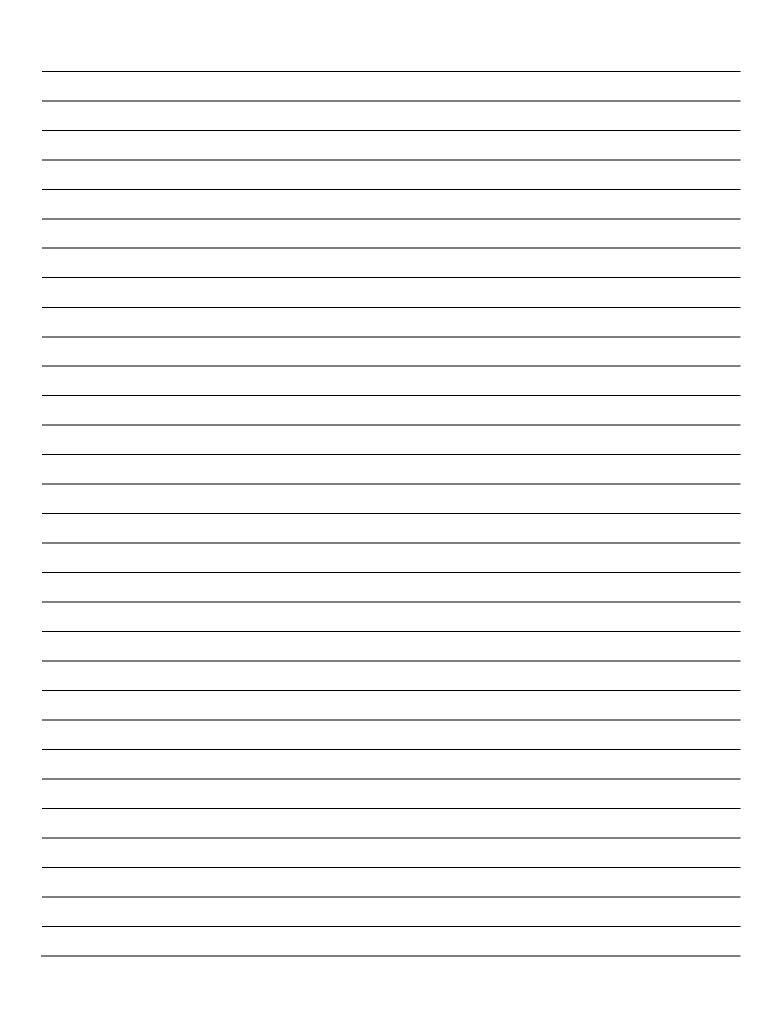
Other

Table 11 - Object Table Information: Other

| ID | Name | Description | W? | Notes |
|---------|--------------------------|--|---|--|
| FIL.1 | FirmwareUpdateFile | File object of the firmware upgrade. | File_Size Archive | Stream access method via atomicWriteFile and atomicReadFile. |
| FIL.2 | BootloaderUpdateFile | File object of the bootloader firmware upgrade. | File_Size Archive | Stream access method via atomicWriteFile and atomicReadFile. |
| FIL.3 | PumpFirmwareUpdateFile | File object for pump firmware upgrade. | File_Size Archive | Stream access method via atomicWriteFile and atomicReadFile |
| FIL.4 | PumpBootloaderUpdateFile | File object for pump bootloader upgrade. | File_Size Archive | Stream access method via atomicWriteFile and atomicReadFile |
| PGM.1 | FirmwareUpdateTask | Firmware upgrade task. | Program_Change | |
| SKH EZC | | | | |
| FIL.1 | FirmwareUpdateFile | File object of the firmware upgrade. | File_Size Archive | Stream access method via atomicWriteFile and atomicReadFile. |
| FIL.2 | BootloaderUpdateFile | File object of the bootloader firmware upgrade. | File_Size Archive | Stream access method via atomicWriteFile and atomicReadFile. |
| PGM.1 | FirmwareUpdateTask | Firmware upgrade task. | Program_Change | |
| SCH.1 | OccupancySchedule | Weekly occupancy schedule to specify which occupancy state is active during specific periods of day. | Out_Of_Service Weekly_Schedule Schedule_Default Priority_for_Writing Effective Period | Result is written into OccupancyState's present value (MSV.2). See OccupancyState for the list of valid event values. |

Notes

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