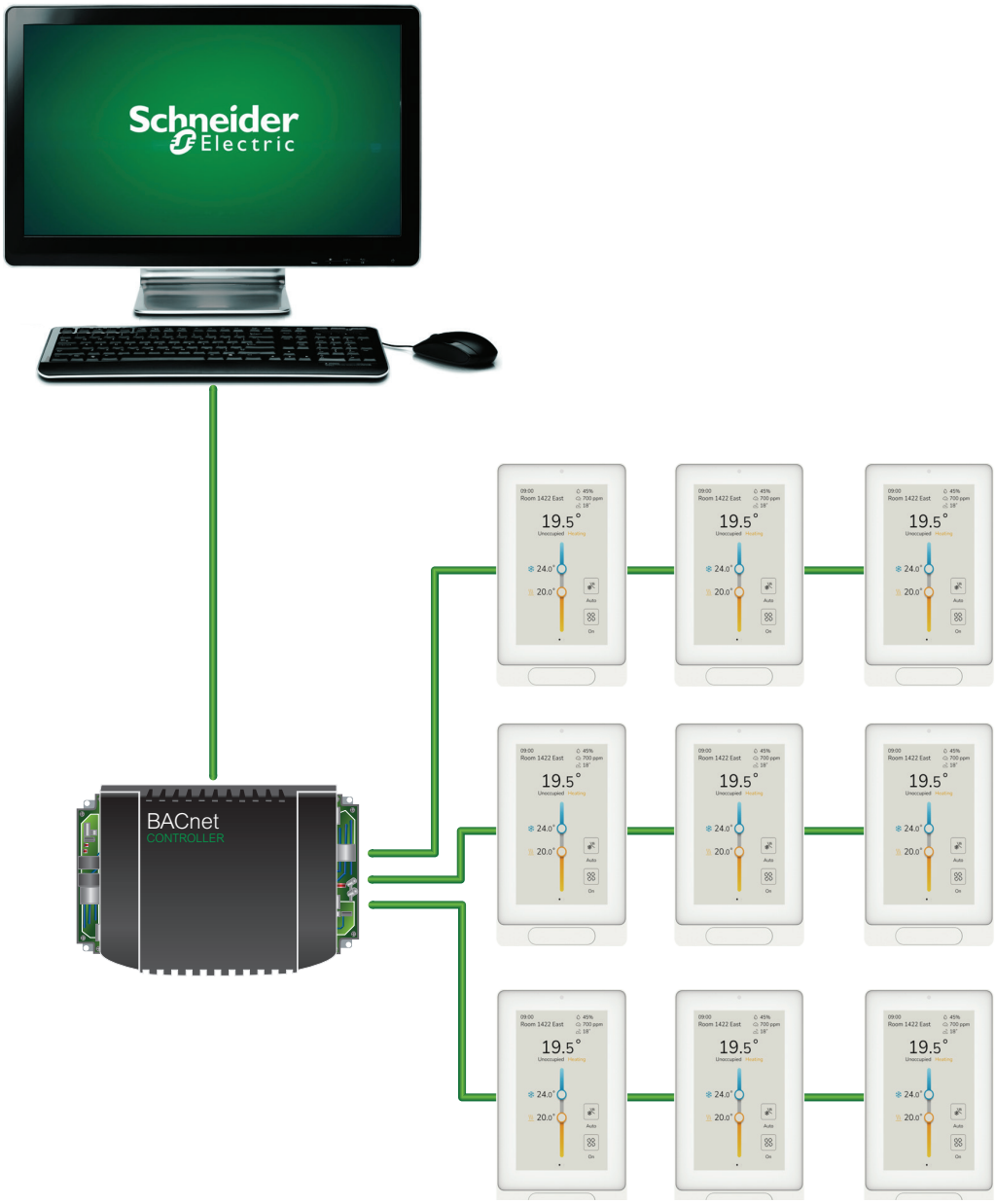
# SpaceLogic™
# Touchscreen Room Controllers

## SXWTRCn500 BACnet Integration Guide

Firmware Revision 1.0




Version 1

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# Compatibility Specifications

**Note:** This document contains BACnet compatibility specifications of the Schneider Electric SpaceLogic™ SXWTRCn500 Room Controllers and follows the BACnet PICS format. Objects common to all three models appear in one table, whereas objects which are model specific appear in separate tables.

**Supported BACnet® Services:** The BACnet® communicating controller meets all requirements for designation as an Application Specific Controller (B-ASC). The BACnet controller supports the following BACnet Interoperability Building Blocks (BIBBs).

Note: The controller does not support segmented requests or responses

| Application Service | Designation |
|---|---|
| Data Sharing-COV-B | DS-COV-B |
| Data Sharing – Read Property - B | DS-RP-B |
| Data Sharing – Read Property Multiple - B | DS-RPM-B |
| Data Sharing – Write Property - B | DS-WP-B |
| Data Sharing - Write Property Multiple Service - B | DS-WPM-B |
| Device Management - Time Synchronization - B | DM-TS-B |
| Device Management - Device Communication Control - B | DM-DCC-B |
| Device Management – Dynamic Device Binding - B | DM-DDB-B |
| Device Management – Dynamic Object Binding - B | DM-DOB-B |
| Scheduling-Internal-B | SCHED-I-B |

| Object Nam-e | Type and Instance | Object Property | Controller Parameter |
|---|---|---|---|
| SXWTRCn500 (all models) | Device | Object_Identifier<br>Property 75 (R,W) | Unique ID number of a device on a network |
| | | Object_Name<br>Property 77 (R,W) | Unique name of a device on a network |
| | | Model Name<br>Property 70 (R) | Controller model number |
| | | Firmware Revision<br>Property 44 (R) | Current BACnet® firmware revision used by controller |
| | | Protocol Version<br>Property 98 (R) | Current BACnet® firmware protocol version<br>Default is Version 1 |
| | | Protocol Revision<br>Property 139 (R) | Current BACnet® firmware protocol revision<br>Default is Version 2 |
| | | Max ADPU Length<br>Property 62 (R) | Maximum ADPU Length accepted<br>Default is 480 |
| | | ADPU Timeout<br>Property 10 (R) | ADPU timeout value<br>Default is 3000 ms |
| | | Application-Software-Version<br>Property 12 (R) | Controller base application software version<br>Default is based on current released version |
| | | Max_Master (R,W) | Maximum master devices allowed to be part of network.<br>0 to 127, default is 127 |
| | | Description<br>Property 28 (R,W) | String of printable characters<br>(Same as “Long Screen Message” CSV2) |
| | | Location<br>Property 58 (R,W) | String of printable characters<br>(Same as “Short Screen Message” CSV1) |
| | | Local Date<br>Property 56 (R) | Indicates date to best of device knowledge |
| | | Local Time<br>Property 57 (R) | Indicated time of day best of the device knowledge |

# Object Properties

**NOTES for BACnet Priorities:**

- 1-3: Written in eeprom memory, the value cannot be changed at the thermostat and will remain after a power-cycle. To release it, do a "Restore Factory default" or from BACnet at same priority level.
  Usage: System configuration parameters that should not be changed.
- 4-16: Written in ram memory, the values are lost after a power-cycle.
  Usage: Active writes from LUA script and/or from a BMS.
- 17: Relinquish default, the values can be changed at the thermostat and will remain in the thermostat after a power-cycle.
  Usage: Temperature setpoints, fan-mode, system-mode, etc.

## Analog Objects

| Object Type Read/Write Settings | | | Object Property | Controller Parameter |
|---|---|---|---|---|
| Input AI | Output AO | Values AV | | |
| Read Only | Read Only | Read Only | Event State<br>Property 36 | Indicates if object has an active event state associated with it |
| Read Only | Read Only | Read Only | Object Identifier<br>Property 75 | Unique ID number of an object on a network |
| Read Only | Read Only | Read Only | Object Name<br>Property 77 | Unique name of an object on a network |
| Read Only | Read Only | Read Only | Object Type<br>Property 79 | Indicates membership in a particular object type class |
| Read / Write | Read / Write | Read / Write | Out of Service<br>Property 81 | Indicates whether (TRUE/FALSE) the physical input object represents is not in service |
| Read / Write* | Read / Write | Read / Write | Present Value<br>Property 85 | Contains values of all properties specified |
| N/A | Read Only | Read Only | Priority Array<br>Property 87 | Read-only array of prioritized values |
| Read Only | Read Only | Read Only | Reliability<br>Property 103 | Indicates if Present_Value is "reliable" |
| N/A | Read Only | Read / Write † | Relinquish Default<br>Property 104 | Default value used for Present_Value when values in Priority_Array have a NULL value |
| Read Only | Read Only | Read Only | Status Flags<br>Property 111 | Represents flags that indicate general health of life safety point object |
| Read Only | Read Only | Read Only | Units<br>Property 177 | Indicates measurement units of Present_Value |
| N/A | Read / Write | Read / Write | Hight Limit<br>Property 1101 | Specifies a limit Present_Value must exceed before an event is generated |
| N/A | Read / Write | Read / Write | Low Limit<br>Property 1100 | Specifies a limit Present_Value must fall below before an event is generated |

N/A = Not Applicable, property not used for objects of that type
* The Present_Value is only writeable when Out_Of_Service is TRUE.
† Relinquish default, the values can be changed at the thermostat and will remain in the thermostat after a power-cycle. Usage: Temperature setpoints, fan-mode, system-mode, etc.

## Binary Objects

| Object Type Read/Write Settings | | | Object Property | Controller Parameter |
|---|---|---|---|---|
| Input BI | Output BO | Values BV | | |
| Read Only | Read Only | Read Only | Active Text Property 4 | Characterizes intended effect of the ACTIVE state of Present_Value property |
| Read Only | Read Only | Read Only | Event State Property 36 | Indicates if object has an active event state associated with it |
| Read Only | Read Only | Read Only | Inactive Text Property 46 | Characterizes intended effect of INACTIVE state of Present_Value property |
| Read Only | Read Only | Read Only | Object Identifier Property 75 | Unique ID number of an object on a network |
| Read Only | Read Only | Read Only | Object Name Property 77 | Unique name of an object on a network |
| Read Only | Read Only | Read Only | Object Type Property 79 | Indicates membership in a particular object type class |
| Read / Write | Read / Write | Read / Write | Out of Service Property 81 | Indicates whether (TRUE/FALSE) physical input object represents is not in service |
| Read Only | Read Only | N/A | Polarity Property 84 | Indicates relationship between physical state of input and Present_Value |
| Read / Write | Read / Write | Read / Write | Present Value Property 85 | Contains values of all properties specified |
| Read Only | Read Only | Read Only | Priority Array Property 87 | Read-only array of prioritized values |
| N/A | Read Only | Read / Write | Relinquish Default Property 104 | Default value to be used for Present Value when values in Priority_Array have a NULL value |
| Read Only | Read Only | Read Only | Status Flags Property 111 | Represents flags that indicate general health of life safety point object |

**N/A =** Not Applicable, property not used for objects of that type

**NOTES for BACnet Priorities:**

- 1-3: Written in eeprom memory, the value cannot be changed at the thermostat and will remain after a power-cycle. To release it, do a "Restore Factory default" or from BACnet at same priority level.
  Usage: System configuration parameters that should not be changed.
- 4-16: Written in ram memory, the values are lost after a power-cycle.
  Usage: Active writes from LUA script and/or from a BMS.
- 17: Relinquish default, the values can be changed at the thermostat and will remain in the thermostat after a power-cycle.
  Usage: Temperature setpoints, fan-mode, system-mode, etc.

## CAL Objects

| Read/Write | Object Property | Controller Parameter |
|---|---|---|
| Read / Write | Date List Property 23 | List of calender entries. |
| Read Only | Object Identifier Property 75 | Unique ID number of an object on a network |
| Read Only | Object Name Property 77 | Unique name of an object on a network |
| Read Only | Object Type Property 79 | Indicates membership in a particular object type class |
| Read Only | Present Value Property 85 | This property is TRUE when current date matches an entry. |

## CSV Objects

| Read/Write | Object Property | Controller Parameter |
|---|---|---|
| Read Only | Event State<br>Property 36 | Indicates object has an active event state associated with it |
| Read Only | Object Identifier<br>Property 75 | Unique ID number of an object on a network |
| Read Only | Object Name<br>Property 77 | Unique name of an object on a network |
| Read Only | Object Type<br>Property 79 | Indicates membership in a particular object type class |
| Read / Write | Present Value<br>Property 85 | Contains values of all properties specified |
| Read Only | Status Flags<br>Property 111 | Represents flags that indicate general health of life safety point object |

## File Objects

| Read/Write | Object Property | Controller Parameter |
|---|---|---|
| Read Only | Archive<br>Property 13 | Set to FALSE when the Modification_Date property changes for any reason.<br>An archiving process to set the value of this property to TRUE when it completes. |
| Read Only | File Access Method<br>Property 41 | Indicates the type(s) of file access supported for this object.<br>Supported: "1: Stream Access". |
| Read / Write | File Size<br>Property 42 | Indicates the size of the file data in octets.<br>Writing a value of 0 erases file data contents. |
| Read Only | File Type<br>Property 43 | Identifies the intended use of this file |
| Read Only | Modification Date<br>Property 71 | Indicates the last time the underlying file data or File_Size of this object was modified |
| Read Only | Object Identifier<br>Property 75 | Unique ID number of an object on a network |
| Read Only | Object Name<br>Property 77 | Unique name of an object on a network |
| Read Only | Object Type<br>Property 79 | File type object |
| Read Only | Read Only<br>Property 99 | Whether FALSE or TRUE the file data may be changed through the use of the AtomicWriteFile service |
| Read Only | Profile Name<br>Property 168 | Name of an object profile to which this object conforms |

## Multi-State Objects

| Object Type Read/Write Settings | | Object Property | Controller Parameter |
|---|---|---|---|
| Input MSI | Values MV | | |
| Read Only | Read Only | Event State<br>Property 36 | Indicates if object has an active event state associated with it |
| Read Only | Read Only | Number of States<br>Property 74 | Defines number of states Present_Value may have |
| Read Only | Read Only | Object Identifier<br>Property 75 | Unique ID number of an object on a network |
| Read Only | Read Only | Object Name<br>Property 77 | Unique name of an object on a network |
| Read Only | Read Only | Object Type<br>Property 79 | Indicates membership in a particular object type class |
| Read / Write | Read / Write | Out of Service<br>Property 81 | Indicates whether (TRUE/FALSE) physical input object represents is not in service |

| Object Type Read/Write Settings | | Object Property | Controller Parameter |
|---|---|---|---|
| Input MSI | Values MV | | |
| Read / Write* | Read / Write | Present Value Property 85 | Contains values of all properties specified |
| N/A | Read Only | Priority Array Property 87 | Indicates relationship between physical state of input and Present_Value |
| N/A | Read / Write | Relinquish Default Property 104 | Default value used for Present_Value when values in Priority_Array have a NULL value |
| Read Only | Read Only | State Text Property 110 | Represents descriptions of all possible states of Present_Value |
| Read Only | Read Only | Status Flags Property 111 | Represents flags that indicate general health of life safety point object |

**N/A =** Not Applicable, property not used for objects of that type
* The Present_Value is only writeable when Out_Of_Service is TRUE.

## PG Objects

| Read/Write | Object Property | Controller Parameter |
|---|---|---|
| Read Only | Description Property 28 | String of printable characters whose content is not restricted. Contains up to 480 bytes of the LUA program script. |
| Read Only | Description Of Halt Property 29 | Describes the reason why a program has been halted Text is also displayed in the HMI debug log |
| Read Only | Instance Of Property 48 | Local name of the application program being executed by this process |
| Read Only | Object Identifier Property 75 | Unique ID number of an object on a network |
| Read Only | Object Name Property 77 | Unique name of an object on a network |
| Read Only | Object Type Property 79 | Indicates membership in a particular object type class |
| Read Only | Out Of Service Property 81 | Indicates whether (TRUE/FALSE) the process this object represents is not in service |
| Write Only | Program Change Property 90 | Used to request changes to the operating state of the program. Writing to property affects all 10 PG objects |
| Read Only | Program State Property 92 | Current logical state of the PG objects executing application programs |
| Read Only | Reason For Halt Property 100 | If program halts, this property reflects the reason for halt |
| Read Only | Status Flags Property 111 | Represents flags that indicate general health of life safety point object |

## SCH Objects

| Read/Write | Object Property | Controller Parameter |
|---|---|---|
| Read Only | Effective Period Property 32 | Range of dates within which the Schedule object is active. All dates are in range, so always Effective |
| Read / Write | Exception Schedule Property 38 | Sequence of schedule actions that takes precedence over normal behavior on a specific day or days. By default, this property refers to the calendar |
| Read Only | Object Identifier Property 75 | Unique ID number of an object on a network |
| Read Only | Object Name Property 77 | Unique name of an object on a network |
| Read Only | Object Type Property 79 | Indicates membership in a particular object type class |

| Read/Write | Object Property | Controller Parameter |
|---|---|---|
| Read / Write | Present Value Property 85 | Contains the current value of the schedule (0:unoccupied, 1:occupied). Only writeable when Out Of Service is TRUE . |
| Read / Write | Out Of Service Property 81 | Indicates whether (TRUE/FALSE) the internal calculations of the schedule object are used to determine the value of the Present Value property |
| Read Only | Reliability Property 103 | Indicates if Present Value is "reliable" |
| Read Only | Status Flags Property 111 | Represents flags that indicate general health of life safety point object |
| Read / Write | Weekly Schedule Property 123 | 7 elements that describe the sequence of schedule actions for each day of the week |
| Read Only | Schedule Default Property 174 | Default value to be used when no other scheduled value is in effect. Always Unoccupied |

# Analog Objects

## Analog Input Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| UI1 Raw Value | AI | 1 | 0 | 0 to 4095 | Inputs | All |
| UI2 Raw Value | AI | 2 | 0 | 0 to 4095 | Inputs | All |
| UI3 Raw Value | AI | 3 | 0 | 0 to 4095 | Inputs | All |
| UI4 Raw Value | AI | 4 | 0 | 0 to 4095 | Inputs | All |
| UI5 Raw Value | AI | 5 | 0 | 0 to 4095 | Inputs | All |
| UI6 Raw Value | AI | 6 | 0 | 0 to 4095 | Inputs | All |
| UI7 Raw Value | AI | 7 | 0 | 0 to 4095 | Inputs | All |
| UI8 Raw Value | AI | 8 | 0 | 0 to 4095 | Inputs | All |
| Light Sensor Level | AI | 20 | 0 | 0 to 30000 | | All |
| Relative Humidity Raw Value | AI | 40 | 0 % | 0 to 100 % | | All |
| Wireless Device 1 - Temperature | AI | 315 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 2 - Temperature | AI | 316 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 3 - Temperature | AI | 317 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 4 - Temperature | AI | 318 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 5 - Temperature | AI | 319 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 6 - Temperature | AI | 320 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 7 - Temperature | AI | 321 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 8 - Temperature | AI | 322 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 9 - Temperature | AI | 323 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 10 - Temperature | AI | 324 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Effective Setpoint | AI | 329 | 0 °F (-18 °C) | 40 to 100 °F (4 to 38 °C) | Operating Status | All |
| Paired ZigBee Devices | AI | 330 | 0 | 0 to 20 | | All |
| RH Temperature Raw Value | AI | 32 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | | All |
| Wi-Fi Network Signal Strength | AI | 342 | 0 % | 0 to 100 % | | All |
| Wireless Device 11 - Temperature | AI | 355 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 12 - Temperature | AI | 356 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 13 - Temperature | AI | 357 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 14 - Temperature | AI | 358 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 15 - Temperature | AI | 359 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 16 - Temperature | AI | 360 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 17 - Temperature | AI | 361 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 18 - Temperature | AI | 362 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 19 - Temperature | AI | 363 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 20 - Temperature | AI | 364 | -40 °F (-40 °C) | -40 to 185 °F (-40 to 85 °C) | Inputs | All |
| Wireless Device 1 - Humidity | AI | 365 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 2 - Humidity | AI | 366 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 3 - Humidity | AI | 367 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 4 - Humidity | AI | 368 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 5 - Humidity | AI | 369 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 6 - Humidity | AI | 370 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 7 - Humidity | AI | 371 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 8 - Humidity | AI | 372 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 9 - Humidity | AI | 373 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 10 - Humidity | AI | 374 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 11 - Humidity | AI | 375 | 0 % | 0 to 100 % | Inputs | All |

1 These new columns indicate where you will find this parameter on the Room Controller, and on which models.

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Wireless Device 12 - Humidity | AI | 376 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 13 - Humidity | AI | 377 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 14 - Humidity | AI | 378 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 15 - Humidity | AI | 379 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 16 - Humidity | AI | 380 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 17 - Humidity | AI | 381 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 18 - Humidity | AI | 382 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 19 - Humidity | AI | 383 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 20 - Humidity | AI | 384 | 0 % | 0 to 100 % | Inputs | All |
| Wireless Device 1 - CO2 | AI | 385 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 2 - CO2 | AI | 386 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 3 - CO2 | AI | 387 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 4 - CO2 | AI | 388 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 5 - CO2 | AI | 389 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 6 - CO2 | AI | 390 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 7 - CO2 | AI | 391 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 8 - CO2 | AI | 392 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 9 - CO2 | AI | 393 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 10 - CO2 | AI | 394 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 11 - CO2 | AI | 395 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 12 - CO2 | AI | 396 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 13 - CO2 | AI | 397 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 14 - CO2 | AI | 398 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 15 - CO2 | AI | 399 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 16 - CO2 | AI | 400 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 17 - CO2 | AI | 401 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 18 - CO2 | AI | 402 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 19 - CO2 | AI | 403 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Wireless Device 20 - CO2 | AI | 404 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Thermistor 1 | AI | 11 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | | All |
| Thermistor 2 | AI | 12 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | | All |
| Thermistor 3 | AI | 13 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | | All |
| Thermistor 4 | AI | 14 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | | All |
| Thermistor 5 | AI | 15 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | | All |
| MCU Temperature | AI | 16 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | | All |

## Analog Output Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| PI Heating Demand | AO | 21 | 0 % | 0 to 100 % | System Status | All |
| PI Cooling Demand | AO | 22 | 0 % | 0 to 100 % | System Status | All |
| Economizer Demand | AO | 23 | 0 % | 0 to 100 % | System Status | 6500 |
| Analog Output Heat Demand | AO | 24 | 0 % | 0 to 100 % | Terminals | 6500 |
| AO1 Voltage | AO | 101 | 0 v | 0 to 10 v | Terminals | All |
| AO2 Voltage | AO | 102 | 0 v | 0 to 10 v | Terminals | All |
| AO3 Voltage | AO | 103 | 0 v | 0 to 10 v | Terminals | All |
| AO4 Voltage | AO | 104 | 0 v | 0 to 10 v | Terminals | All |

1 These new columns indicate where you will find this parameter on the Room Controller, and on which models.

## Analog Value Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Room Temperature | AV | 100 | 0 °F (-18 °C) | -40 to 122 °F (-40 to 50 °C) | Environment | All |
| Outdoor Temperature | AV | 101 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Environment | All |
| Supply Temperature | AV | 102 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Environment | All |
| Room Humidity | AV | 103 | 0 % | 0 to 100 % | Environment | All |
| Changeover Temperature | AV | 104 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Environment | 3500 |
| Wired Temperature Sensor | AV | 105 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Environment | All |
| CO2 Level | AV | 106 | 0 ppm | 0 to 5000 ppm | Environment | All |
| Airflow Level | AV | 107 | 0 | 0 to 20000 | System Status | 6500 |
| UI1 Voltage | AV | 111 | 0 v | 0 to 10 v | Terminals | All |
| UI2 Voltage | AV | 112 | 0 v | 0 to 10 v | Terminals | All |
| UI3 Voltage | AV | 113 | 0 v | 0 to 10 v | Terminals | All |
| UI4 Voltage | AV | 114 | 0 v | 0 to 10 v | Terminals | All |
| UI5 Voltage | AV | 115 | 0 v | 0 to 10 v | Terminals | All |
| UI6 Voltage | AV | 116 | 0 v | 0 to 10 v | Terminals | All |
| UI7 Voltage | AV | 117 | 0 v | 0 to 10 v | Terminals | All |
| UI8 Voltage | AV | 118 | 0 v | 0 to 10 v | Terminals | All |
| UI1 Temperature | AV | 121 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| UI2 Temperature | AV | 122 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| UI3 Temperature | AV | 123 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| UI4 Temperature | AV | 124 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| UI5 Temperature | AV | 125 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| UI6 Temperature | AV | 126 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| UI7 Temperature | AV | 127 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| UI8 Temperature | AV | 128 | 0 °F (-18 °C) | -40 to 180 °F (-40 to 82 °C) | Terminals | All |
| Occupied Cool Setpoint | AV | 40 | 75 °F (24 °C) | 54 to 100 °F (12 to 38 °C) | Setpoints | All |
| Occupied Heat Setpoint | AV | 39 | 72 °F (22 °C) | 40 to 90 °F (4 to 32 °C) | Setpoints | All |
| Unoccupied Cool Setpoint | AV | 44 | 80 °F (27 °C) | 54 to 100 °F (12 to 38 °C) | Setpoints | All |
| Unoccupied Heat Setpoint | AV | 43 | 62 °F (17 °C) | 40 to 90 °F (4 to 32 °C) | Setpoints | All |
| Maximum Heating Setpoint Limit | AV | 58 | 90 °F (32 °C) | 40 to 90 °F (4 to 32 °C) | Setpoint Configuration | All |
| Minimum Cooling Setpoint Limit | AV | 59 | 54 °F (12 °C) | 54 to 100 °F (12 to 38 °C) | Setpoint Configuration | All |
| Calibrate Room Temperature Sensor | AV | 7 | 0 °F Delta (0 °C) | -5 to 5 °F Delta (-3 to 3 °C) | Inputs | All |
| Standby Cool Setpoint | AV | 42 | 78 °F (26 °C) | 54 to 100 °F (12 to 38 °C) | Setpoints | All |
| Standby Heat Setpoint | AV | 41 | 69 °F (21 °C) | 40 to 90 °F (4 to 32 °C) | Setpoints | All |
| Dehumidification Max Cooling Limit | AV | 73 | 100 % | 20 to 100 % | Dehumidifier | 3500 |
| Dehumidification Setpoint | AV | 71 | 50 % | 30 to 95 % | Dehumidifier | All |
| Calibrate Humidity Sensor | AV | 8 | 0 % | -15 to 15 % | Inputs | All |
| Dehumidification Hysteresis | AV | 72 | 5 % | 2 to 20 % | Dehumidifier | All |
| COM Address | AV | 10 | 254 | 0 to 254 | BACnet | All |
| Minimum Deadband | AV | 63 | 3 °F Delta (2 °C) | 1.8 to 5 °F Delta (1 to 3 °C) | Setpoint Configuration | All |
| Heating CPH | AV | 84 | 4 | 3 to 8 | Rooftop | All |
| Cooling CPH | AV | 85 | 4 | 3 to 8 | | 3500 |
| Cooling CPH | AV | 85 | 4 | 3 to 4 | Rooftop | 6500 |
| Number of Pipes | AV | 52 | 2 | 0 to 4 | Fan Coil Unit | 3500 |
| Unoccupied Time | AV | 68 | 0 h | 0 to 24 h | Occupancy Configuration | All |
| Temporary Occupancy Time | AV | 62 | 2 h | 0 to 24 h | Occupancy Configuration | All |
| Standby Time | AV | 67 | 0.5 h | 0.5 to 24 h | Occupancy Configuration | All |
| Proportional Band | AV | 65 | 3 °F Delta (2 °C) | 3 to 10 °F Delta (2 to 6 °C) | Fan Coil Unit | All |
| Cooling Demand Limit | AV | 89 | 100 % | 0 to 100 % | System Status | All |
| Heating Demand Limit | AV | 88 | 100 % | 0 to 100 % | System Status | All |

1 These new columns indicate where you will find this parameter on the Room Controller, and on which models.

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Low Backlight | AV | 3 | 60 % | 0 to 100 % | Display | All |
| Night Backlight | AV | 4 | 5 % | 0 to 100 % | Display | All |
| Purge Sample Period | AV | 5 | 2 h | 0 to 4 h | Fan Coil Unit | 3500 |
| Purge Open | AV | 6 | 2 m | 1 to 3 m | Fan Coil Unit | 3500 |
| Standby Temperature Differential | AV | 46 | 4 °F Delta (2 °C) | 1 to 5 °F Delta (1 to 3 °C) | | All |
| Default Cooling Setpoint | AV | 45 | 75 °F (24 °C) | 54 to 100 °F (12 to 38 °C) | | All |
| Default Heating Setpoint | AV | 47 | 72 °F (22 °C) | 40 to 90 °F (4 to 32 °C) | | All |
| Floating Actuator Time | AV | 90 | 1.5 m | 0.5 to 9 m | Fan Coil Unit | 3500 |
| Anti Short Cycle Time | AV | 86 | 2 m | 0 to 5 m | Rooftop | 6500 |
| Number of Heating Stages | AV | 87 | 2 | 0 to 2 | Rooftop | 6500 |
| Number of Cooling Stages | AV | 75 | 2 | 1 to 2 | Rooftop | 6500 |
| Power-up Delay | AV | 76 | 10 | 10 to 120 | Rooftop | 6500 |
| Calibrate Outside Temperature Sensor | AV | 74 | 0 °F Delta (0 °C) | -5 to 5 °F Delta (-3 to 3 °C) | Inputs | All |
| Heating Lockout from Outside Air Temperature | AV | 91 | 120 °F (49 °C) | -15 to 120 °F (-26 to 49 °C) | Rooftop | 6500 |
| Cooling Lockout | AV | 93 | -40 °F (-40 °C) | -40 to 95 °F (-40 to 35 °C) | Rooftop | 6500 |
| Supply Air Temperature Setpoint | AV | 94 | 55 °F (13 °C) | 50 to 90 °F (10 to 32 °C) | Economizer | 6500 |
| Changeover Setpoint | AV | 95 | 55 °F (13 °C) | 14 to 70 °F (-10 to 21 °C) | Economizer | 6500 |
| Economizer Minimum Position | AV | 78 | 0 % | 0 to 99 % | Economizer | 6500 |
| Economizer Maximum Position | AV | 81 | 100 % | 1 to 100 % | Economizer | 6500 |
| Fresh Air Range Upper Limit | AV | 96 | 0 | 0 to 20000 | | 6500 |
| Minimum Supply Heat | AV | 97 | 64 °F (18 °C) | 50 to 72 °F (10 to 22 °C) | | 6500 |
| Supply Heat Lockout | AV | 98 | 32 °F (0 °C) | -15 to 120 °F (-26 to 49 °C) | | 6500 |
| Supply Temperature High Limit | AV | 99 | 120 °F (49 °C) | 70 to 150 °F (21 to 66 °C) | Rooftop | 6500 |
| Supply Temperature Low Limit | AV | 20 | 45 °F (7 °C) | 35 to 65 °F (2 to 18 °C) | Rooftop | 6500 |
| Minimum Fresh Air | AV | 21 | 0 | 0 to 20000 | | 6500 |
| Maximum Fresh Air | AV | 22 | 0 | 0 to 20000 | | 6500 |
| Minimum CO2 | AV | 23 | 800 ppm | 0 to 4800 ppm | | 6500 |
| Maximum CO2 | AV | 24 | 1200 ppm | 200 to 5000 ppm | | 6500 |
| Lua Parameter A (AV25) | AV | 25 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter B (AV26) | AV | 26 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter C (AV27) | AV | 27 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter D (AV28) | AV | 28 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter E (AV29) | AV | 29 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter F (AV30) | AV | 30 | 0 | -32768 to 32767 | Lua Variables | All |
| High balance point | AV | 82 | 90 °F (32 °C) | 34 to 90 °F (1 to 32 °C) | | 6500 |
| Low balance point | AV | 83 | -12 °F (-24 °C) | -40 to 30 °F (-40 to -1 °C) | | 6500 |
| Ambient Low Temperature Threshold | AV | 209 | 40 °F (4 °C) | 32 to 50 °F (0 to 10 °C) | | All |
| Temperature Alarm Hysteresis | AV | 210 | 2 °F Delta (1 °C) | 0 to 10 °F Delta (0 to 6 °C) | | All |
| ADR Setpoint Offset - Load Shedding | AV | 280 | 4 °F Delta (2 °C) | 1 to 10 °F Delta (1 to 6 °C) | ADR | All |
| Lua Parameter G (AV31) | AV | 31 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter H (AV32) | AV | 32 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter I (AV33) | AV | 33 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter J (AV34) | AV | 34 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter K (AV35) | AV | 35 | 0 | -32768 to 32767 | Lua Variables | All |
| Lua Parameter L (AV36) | AV | 36 | 0 | -32768 to 32767 | Lua Variables | All |
| ECM Fan Low Voltage | AV | 212 | 2.2 v | 0 to 9.8 v | | 3500 |
| ECM Fan Medium Voltage | AV | 213 | 6 v | 0.1 to 9.9 v | | 3500 |
| ECM Fan High Voltage | AV | 214 | 8.6 v | 0.2 to 10 v | | 3500 |
| Ambient High Temperature Threshold | AV | 275 | 86 °F (30 °C) | 32 to 122 °F (0 to 50 °C) | | All |
| Refrigeration High Temperature Threshold | AV | 276 | 40 °F (4 °C) | 32 to 60 °F (0 to 16 °C) | | All |

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Refrigeration Low Temperature Threshold | AV | 277 | 32 °F (0 °C) | 32 to 50 °F (0 to 10 °C) | | All |
| Freezer High Temperature Threshold | AV | 278 | 0 °F (-18 °C) | -40 to 32 °F (-40 to 0 °C) | | All |
| Minimum Occupied Heating Setpoint Limit | AV | 60 | 40 °F (4 °C) | 40 to 90 °F (4 to 32 °C) | | All |
| Maximum Occupied Cooling Setpoint Limit | AV | 61 | 100 °F (38 °C) | 54 to 100 °F (12 to 38 °C) | | All |
| Inactivity Time | AV | 231 | 3 m | 1 to 10 m | Display | All |
| Backlight Brightness | AV | 232 | 60 % | 0 to 100 % | | All |
| ADR Setpoint Offset - Pricing | AV | 281 | 4 °F Delta (2 °C) | 1 to 10 °F Delta (1 to 6 °C) | ADR | All |
| Temperature compensation matrix | AV | 282 | 0 °F (-18 °C) | -100 to 100 °F (-73 to 38 °C) | | All |
| BACnet Stack Poll Rate | AV | 16 | 4 | 1 to 5 | | All |

# Binary Objects

## Binary Input Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| UI1 Binary | BI | 1 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |
| UI2 Binary | BI | 2 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |
| UI3 Binary | BI | 3 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |
| UI4 Binary | BI | 4 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |
| UI5 Binary | BI | 5 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |
| UI6 Binary | BI | 6 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |
| UI7 Binary | BI | 7 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |
| UI8 Binary | BI | 8 | 0=Activated | 0=Activated, 1=Not activ. | Terminals | All |

## Binary Output Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| DO1 Binary Output | BO | 1 | 0=Off | 0=Off, 1=On | Terminals | 3500 |
| DO1 Occupancy Output | BO | 1 | 0=Off | 0=Off, 1=On | Terminals | 6500 |
| DO2 Low Speed Fan Output | BO | 2 | 0=Off | 0=Off, 1=On | Terminals | 3500 |
| Y2 Status | BO | 2 | 0=Off | 0=Off, 1=On | Terminals | 6500 |
| DO3 Medium Speed Fan Output | BO | 3 | 0=Off | 0=Off, 1=On | Terminals | 3500 |
| Y1 Status | BO | 3 | 0=Off | 0=Off, 1=On | Terminals | 6500 |
| DO4 High Speed Fan Output | BO | 4 | 0=Off | 0=Off, 1=On | Terminals | 3500 |
| G Fan Status | BO | 4 | 0=Off | 0=Off, 1=On | Terminals | 6500 |
| DO5 Auxiliary Binary Output | BO | 5 | 0=Off | 0=Off, 1=On | Terminals | 3500 |
| W1 Status | BO | 5 | 0=Off | 0=Off, 1=On | Terminals | 6500 |
| DO6 Binary Output | BO | 6 | 0=Off | 0=Off, 1=On | Terminals | 3500 |
| W2-OB Status | BO | 6 | 0=Off | 0=Off, 1=On | Terminals | 6500 |
| DO7 Binary Output | BO | 7 | 0=Off | 0=Off, 1=On | Terminals | All |
| DO8 Binary Output | BO | 8 | 0=Off | 0=Off, 1=On | Terminals | All |
| DO9 Binary Output | BO | 9 | 0=Off | 0=Off, 1=On | Terminals | All |

1 These new columns indicate where you will find this parameter on the Room Controller, and on which models.

## Binary Value Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Filter Alarm | BV | 36 | 0=Off | 0=Off, 1=On | Alarms | All |
| Service Alarm | BV | 37 | 0=Off | 0=Off, 1=On | Alarms | All |
| Window Alarm | BV | 35 | 0=Off | 0=Off, 1=On | Alarms | All |
| PIR Local Motion | BV | 32 | 0=No motion | 0=No motion, 1=Motion | Operating Status | All |
| Dehumidification Status | BV | 38 | 0=Off | 0=Off, 1=On | System Status | All |
| Low Battery Alarm | BV | 5 | 0=Off | 0=Off, 1=On | Alarms | All |
| Window Contact Installed | BV | 4 | 0=No | 0=No, 1=Yes | Environment | All |
| Window Contact Status | BV | 3 | 0=Closed | 0=Closed, 1=Opened | Operating Status | All |
| Door Contact Installed | BV | 2 | 0=No | 0=No, 1=Yes | Environment | All |
| Door Contact Status | BV | 1 | 0=Closed | 0=Closed, 1=Opened | Operating Status | All |
| Fan Lock Alarm | BV | 39 | 0=Off | 0=Off, 1=On | Alarms | 6500 |
| Smart Recovery Status | BV | 40 | 0=Off | 0=Off, 1=On | System Status | All |
| Exception Status | BV | 10 | 0=Off | 0=Off, 1=On | | All |
| CO2 Alarm | BV | 41 | 0=Off | 0=Off, 1=On | Alarms | 6500 |
| Low Fresh Air Alarm | BV | 42 | 0=Off | 0=Off, 1=On | Alarms | 6500 |
| Frost Protection Alarm | BV | 43 | 0=Off | 0=Off, 1=On | Alarms | 6500 |
| ZigBee PIR Sensor Installed | BV | 200 | 0=Off | 0=Off, 1=On | | All |
| ZigBee Sensor Motion | BV | 201 | 0=No motion | 0=No motion, 1=Motion | | All |
| Clock Alarm | BV | 8 | 0=Off | 0=Off, 1=On | Alarms | All |
| Wireless Sensor Communication Alarm | BV | 50 | 0=Off | 0=Off, 1=On | Alarms | All |
| Water Leak | BV | 44 | 0=Off | 0=Off, 1=On | Alarms | All |
| Water Leak Sensor Installed | BV | 45 | 0=No | 0=No, 1=Yes | Environment | All |
| Water leak sensor status | BV | 46 | 0=Normal | 0=Normal, 1=Leak | Operating Status | All |
| Low Temperature | BV | 47 | 0=Off | 0=Off, 1=On | Rooftop | All |
| ADR Utility Signal - Load Shedding | BV | 80 | 0=Off | 0=Off, 1=On | ADR | All |
| ADR Status - Load Shedding | BV | 81 | 0=Off | 0=Off, 1=On | ADR | All |
| ADR Override - Load Shedding | BV | 82 | 0=Off | 0=Off, 1=On | ADR | All |
| High Temperature | BV | 48 | 0=Off | 0=Off, 1=On | Rooftop | All |
| Purge Status | BV | 60 | 0=Off | 0=Off, 1=On | Operating Status | All |
| PIR Local Proximity | BV | 33 | 0=No proximity | 0=No proximity, 1=Proximity | | All |
| Activity Status | BV | 65 | 0=Inactive | 0=Inactive, 1=Active | | All |
| ADR Utility Signal - Pricing | BV | 83 | 0=Off | 0=Off, 1=On | ADR | All |
| ADR Status - Pricing | BV | 84 | 0=Off | 0=Off, 1=On | ADR | All |
| ADR Override - Pricing | BV | 85 | 0=Off | 0=Off, 1=On | ADR | All |

# CSV Objects

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Short Screen Message Text | CSV | 1 | 0 | 0 to 160 | | All |
| Long Screen Message Text | CSV | 2 | 0 | 0 to 480 | | All |
| Wi-Fi Device Name | CSV | 4 | 0 | 0 to 63 | Device Info | All |
| Wi-Fi Firmware Version | CSV | 5 | 0 | 0 to 63 | Device Info | All |
| MAC Address | CSV | 6 | 0 | 0 to 18 | | All |
| Wi-Fi Network SSID | CSV | 7 | 0 | 0 to 33 | | All |
| Wi-Fi Network IP Address | CSV | 8 | 0 | 0 to 46 | | All |
| Zigbee IEEE Address | CSV | 10 | 0 | 0 to 18 | | All |
| Wireless Device 1 - Address | CSV | 11 | 0 | 0 to 18 | | All |

1 These new columns indicate where you will find this parameter on the Room Controller, and on which models.

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Wireless Device 2 - Address | CSV | 12 | 0 | 0 to 18 | | All |
| Wireless Device 3 - Address | CSV | 13 | 0 | 0 to 18 | | All |
| Wireless Device 4 - Address | CSV | 14 | 0 | 0 to 18 | | All |
| Wireless Device 5 - Address | CSV | 15 | 0 | 0 to 18 | | All |
| Wireless Device 6 - Address | CSV | 16 | 0 | 0 to 18 | | All |
| Wireless Device 7 - Address | CSV | 17 | 0 | 0 to 18 | | All |
| Wireless Device 8 - Address | CSV | 18 | 0 | 0 to 18 | | All |
| Wireless Device 9 - Address | CSV | 19 | 0 | 0 to 18 | | All |
| Wireless Device 10 - Address | CSV | 20 | 0 | 0 to 18 | | All |
| Wireless Device 11 - Address | CSV | 21 | 0 | 0 to 18 | | All |
| Wireless Device 12 - Address | CSV | 22 | 0 | 0 to 18 | | All |
| Wireless Device 13 - Address | CSV | 23 | 0 | 0 to 18 | | All |
| Wireless Device 14 - Address | CSV | 24 | 0 | 0 to 18 | | All |
| Wireless Device 15 - Address | CSV | 25 | 0 | 0 to 18 | | All |
| Wireless Device 16 - Address | CSV | 26 | 0 | 0 to 18 | | All |
| Wireless Device 17 - Address | CSV | 27 | 0 | 0 to 18 | | All |
| Wireless Device 18 - Address | CSV | 28 | 0 | 0 to 18 | | All |
| Wireless Device 19 - Address | CSV | 29 | 0 | 0 to 18 | | All |
| Wireless Device 20 - Address | CSV | 30 | 0 | 0 to 18 | | All |
| Active User Id | CSV | 31 | 0 | 0 to 33 | User Info | All |
| Wi-Fi Network Netmask | CSV | 32 | 0 | 0 to 46 | | All |
| Wi-Fi Network Gateway | CSV | 33 | 0 | 0 to 46 | | All |
| Wi-Fi Network DNS | CSV | 34 | 0 | 0 to 46 | | All |
| Location | CSV | 35 | 0 | 0 to 49 | Device Info | All |
| Install Code | CSV | 36 | 0 | 0 to 46 | | All |
| WiFi STA static IP address | CSV | 37 | 0 | 0 to 46 | | All |
| WiFi STA static netmask address | CSV | 38 | 0 | 0 to 46 | | All |
| WiFi STA static gateway address | CSV | 39 | 0 | 0 to 46 | | All |
| Timezone | CSV | 40 | 0 | 0 to 32 | Time Zone | All |
| Custom Standby Heading Text | CSV | 41 | 0 | 0 to 65 | | All |
| Custom Standby Body Text | CSV | 42 | 0 | 0 to 161 | | All |

# File Objects

| Object Name | Instance | Description |
|---|---|---|
| Custom Lua File | 1 | Read/write access to the LUA4RC script.<br>The script can be written via this object, or via USB.<br><br>Note: “Program Objects” on page <?> can be used to monitor and control the script execution. |

# Multi-State Objects

## Multi-State Input Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Effective Occupancy | MSI | 33 | 1=Occupied | 1=Occupied, 2=Unoccupied, 3=Override, 4=Standby | Operating Status | All |
| ZigBee Network Status | MSI | 2 | 1=Not det. | 1=Not det., 2=Pwr on, 3=No NWK, 4=Joined, 5=Online | | All |
| Wireless Device 1 - Status | MSI | 210 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 2 - Status | MSI | 220 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 3 - Status | MSI | 230 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 4 - Status | MSI | 240 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 5 - Status | MSI | 250 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 6 - Status | MSI | 260 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 7 - Status | MSI | 270 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 8 - Status | MSI | 280 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 9 - Status | MSI | 290 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 10 - Status | MSI | 300 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 1 - Battery | MSI | 211 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 2 - Battery | MSI | 221 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 3 - Battery | MSI | 231 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 4 - Battery | MSI | 241 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 5 - Battery | MSI | 251 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 6 - Battery | MSI | 261 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 7 - Battery | MSI | 271 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 8 - Battery | MSI | 281 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 9 - Battery | MSI | 291 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 10 - Battery | MSI | 301 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 1 - Communication Status | MSI | 212 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 2 - Communication Status | MSI | 222 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 3 - Communication Status | MSI | 232 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 4 - Communication Status | MSI | 242 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 5 - Communication Status | MSI | 252 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 6 - Communication Status | MSI | 262 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 7 - Communication Status | MSI | 272 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 8 - Communication Status | MSI | 282 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 9 - Communication Status | MSI | 292 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |

1 These new columns indicate where you will find this parameter on the Room Controller, and on which models.

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Wireless Device 10 - Communication Status | MSI | 302 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| CO2 Effective Source | MSI | 324 | 1=None | 1=None, 2=Internal, 3=Error, 4=Wired, 5=Wireless Sensor 1, 6=Wireless Sensor 2, 7=Wireless Sensor 3, 8=Wireless Sensor 4, 9=Wireless Sensor 5, 10=Wireless Sensor 6, 11=Wireless Sensor 7, 12=Wireless Sensor 8, 13=Wireless Sensor 9, 14=Wireless Sensor 10, 15=Wireless Sensor 11, 16=Wireless Sensor 12, 17=Wireless Sensor 13, 18=Wireless Sensor 14, 19=Wireless Sensor 15, 20=Wireless Sensor 16, 21=Wireless Sensor 17, 22=Wireless Sensor 18, 23=Wireless Sensor 19, 24=Wireless Sensor 20 | Environment | All |
| Effective temperature sensor | MSI | 309 | 1=Wired | 1=Wired, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20 | Environment | All |
| Effective relative humidity sensor | MSI | 313 | 1=None | 1=None, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20 | Environment | All |
| Effective System Mode | MSI | 314 | 1=Cool | 1=Cool, 2=Heat | Operating Status | All |
| IP Status | MSI | 315 | 1=Offline | 1=Offline, 2=Initializing, 3=Ready, 4=Booting, 5=Resetting, 6=Fail, 7=Testing | BACnet | All |
| Wi-Fi Network Status | MSI | 316 | 1=Offline | 1=Offline, 2=Associate, 3=Online, 4=Failure | BACnet | All |
| SMTP Server Status | MSI | 318 | 1=Unknown | 1=Unknown, 2=Disabled, 3=Offline, 4=Online | BACnet | All |
| Wireless Device 11 - Status | MSI | 310 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 12 - Status | MSI | 320 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 13 - Status | MSI | 330 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 14 - Status | MSI | 340 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 15 - Status | MSI | 350 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 16 - Status | MSI | 360 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 17 - Status | MSI | 370 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 18 - Status | MSI | 380 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 19 - Status | MSI | 390 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 20 - Status | MSI | 400 | 1=None | 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak | | All |
| Wireless Device 11 - Battery | MSI | 311 | 1=None | 1=None, 2=Normal, 3=Low | | All |

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Wireless Device 12 - Battery | MSI | 321 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 13 - Battery | MSI | 331 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 14 - Battery | MSI | 341 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 15 - Battery | MSI | 351 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 16 - Battery | MSI | 361 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 17 - Battery | MSI | 371 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 18 - Battery | MSI | 381 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 19 - Battery | MSI | 391 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 20 - Battery | MSI | 401 | 1=None | 1=None, 2=Normal, 3=Low | | All |
| Wireless Device 11 - Communication Status | MSI | 312 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 12 - Communication Status | MSI | 322 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 13 - Communication Status | MSI | 332 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 14 - Communication Status | MSI | 342 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 15 - Communication Status | MSI | 352 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 16 - Communication Status | MSI | 362 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 17 - Communication Status | MSI | 372 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 18 - Communication Status | MSI | 382 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 19 - Communication Status | MSI | 392 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Wireless Device 20 - Communication Status | MSI | 402 | 1=Not paired | 1=Not paired, 2=Online, 3=Invalid, 4=Offline | | All |
| Time source | MSI | 325 | 1=None | 1=None, 2=Local, 3=BACnet, 4=NTP, 5=Cloud | | All |
| Fan Speed Status | MSI | 326 | 1=Off | 1=Off, 2=Low, 3=Medium, 4=High | Operating Status | All |
| Wi-Fi Network Signal Strength | MSI | 327 | 1=Poor | 1=Poor, 2=Fair, 3=Good, 4=Excellent | | All |

## Multi-State Value Properties

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Temperature Scale | MV | 51 | 1=°C | 1=°C, 2=°F | | All |
| Display Language | MV | 4 | 1=English | 1=English, 2=French, 3=Spanish, 4=Chinese, 5=Russian, 6=Arabic, 7=Danish, 8=Italian, 9=German, 10=Indonesian, 11=Polish, 12=Swedish, 13=Norwegian, 14=Finnish, 15=Hungarian, 16=Turkish, 17=Dutch, 18=Czech, 19=Portuguese, 20=Bulgarian, 21=Slovak, 22=Japanese, 23=Hebrew | Preferences (main) | All |
| Fan Mode | MV | 17 | 3=Smart | 1=On, 2=Auto, 3=Smart, 4=Low, 5=Medium, 6=High | Home | 3500 |
| Fan Mode | MV | 17 | 3=Smart | 1=On, 2=Auto, 3=Smart | Home | 6500 |
| System Mode | MV | 16 | 4=Heat | 1=Off, 2=Auto, 3=Cool, 4=Heat | Home | All |
| Default Setpoints | MV | 205 | 1=Disabled | 1=Disabled, 2=Enabled | Setpoint Configuration | All |
| UI1 Configuration | MV | 46 | 1=None | 1=None, 2=Rem NSB, 3=Motion NO, 4=Motion NC, 5=Window, 6=Fan lock | Inputs | All |
| UI2 Configuration | MV | 47 | 1=None | 1=None, 2=Door dry, 3=Override, 4=Filter, 5=Service | Inputs | All |
| Dehumidification Enabled | MV | 13 | 1=Disabled | 1=Disabled, 2=Enabled | Dehumidifier | All |

1 These new columns indicate where you will find this parameter on the Room Controller, and on which models.

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Fan Sequence | MV | 57 | 5=Speeds-Smart | 1=Auto, 2=Smart, 3=Auto-Smart, 4=Speeds-Auto, 5=Speeds-Smart, 6=Speeds-Auto-Smart | Fan | 3500 |
| Setpoint Function | MV | 58 | 2=Attach SP | 1=Dual SP, 2=Attach SP | Setpoint Configuration | All |
| Fan Control in Heating Mode | MV | 95 | 1=Enabled | 1=Enabled, 2=Forced Off-Auto/Smart, 3=Forced Off-All Modes | Fan | 3500 |
| Fan Control in Heating Mode | MV | 95 | 2=On | 1=Off, 2=On | Rooftop | 6500 |
| Sequence of Operation | MV | 15 | 2=Heating only | 1=Cooling only, 2=Heating only, 3=Reheat Only, 4=Cooling/Heating, 5=Cooling/Reheat, 6=Heating/Reheat, 7=Cooling/Heating/Reheat | Fan Coil Unit | 3500 |
| Occupancy Command | MV | 10 | 2=Occupied | 1=Loc occ., 2=Occupied, 3=Unocc. | Occupancy Configuration | All |
| Network Units | MV | 6 | 2=Imperial | 1=SI, 2=Imperial | Preferences (main) | All |
| Time Format | MV | 5 | 1=12 Hour (AM-PM) | 1=12 Hour (AM-PM), 2=24 Hour | Preferences (setup) | All |
| Standby Mode Configuration | MV | 11 | 1=Absolute | 1=Absolute, 2=Offset | Setpoint Configuration | All |
| Color Theme | MV | 2 | 2=Dark | 1=Light, 2=Dark | Preferences (main) | All |
| Main Display | MV | 3 | 1=Temp. | 1=Temp., 2=Setpoint | | All |
| Use Standby Screen | MV | 32 | 1=Disabled | 1=Disabled, 2=Custom Image | Display | All |
| Valve 1 Type | MV | 81 | 2=Floating | 1=On/Off, 2=Floating, 3=0-10V Direct Acting, 4=0-10V Reverse Acting | Fan Coil Unit | 3500 |
| Reheat Time Base | MV | 91 | 1=On/Off (4 CPH) | 1=On/Off (4 CPH), 2=PWM (10s Duty Cycle) | Fan Coil Unit | 3500 |
| Auxiliary Output | MV | 92 | 1=Reheat (Normally Open) | 1=Reheat (Normally Open), 2=Occupancy (Normally Open), 3=Occupancy (Normally Closed), 4=Aux Fan (Normally Open), 5=Aux Fan (Normally Closed), 6=Reheat (Normally Closed) | Fan Coil Unit | 3500 |
| BO1 Auxiliary Output Configuration | MV | 92 | 1=NO | 1=NO, 2=NC | | 6500 |
| UI3 Configuration | MV | 49 | 1=None | 1=None, 2=CO2, 3=COC/NH, 4=COC/NC, 5=COS | Inputs | 3500 |
| UI3 Configuration | MV | 49 | 1=None | 1=None, 2=CO2 | Inputs | 6500 |
| DO6-AO1 Configuration | MV | 96 | 2=Binary RC | 1=Analog, 2=Binary RC, 3=Binary RH | Terminals | 3500 |
| DO6-AO1 Configuration | MV | 96 | 3=Binary RH | 1=Analog, 2=Binary RC, 3=Binary RH | Terminals | 6500 |
| DO7-AO2 Configuration | MV | 97 | 2=Binary RC | 1=Analog, 2=Binary RC | Terminals | 3500 |
| DO7-AO2 Configuration | MV | 97 | 1=Analog | 1=Analog, 2=Binary RC | Terminals | 6500 |
| DO8-AO3 Configuration | MV | 98 | 2=Binary RC | 1=Analog, 2=Binary RC | Terminals | 3500 |
| DO8-AO3 Configuration | MV | 98 | 1=Analog | 1=Analog, 2=Binary RC | Terminals | 6500 |
| DO9-AO4 Configuration | MV | 99 | 2=Binary RC | 1=Analog, 2=Binary RC | Terminals | All |
| Frost Protection | MV | 55 | 1=Off | 1=Off, 2=On | Rooftop | 6500 |
| Mechanical Cooling Allowed | MV | 79 | 1=Off | 1=Off, 2=On | Economizer | 6500 |
| Enable Smart Recovery | MV | 71 | 1=Off | 1=Off, 2=On | Occupancy Configuration | All |
| Economizer Configuration | MV | 72 | 1=Off | 1=Off, 2=On | Economizer | 6500 |
| French | MV | 101 | 2=Enabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Spanish | MV | 102 | 2=Enabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Chinese | MV | 103 | 2=Enabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Russian | MV | 104 | 2=Enabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Fan Delay | MV | 12 | 2=On | 1=Off, 2=On | Rooftop | 6500 |
| Wireless Device 1 - Function | MV | 210 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Wireless Device 2 - Function | MV | 220 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 3 - Function | MV | 230 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 4 - Function | MV | 240 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 5 - Function | MV | 250 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 6 - Function | MV | 260 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 7 - Function | MV | 270 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 8 - Function | MV | 280 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 9 - Function | MV | 290 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 10 - Function | MV | 300 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Occupancy Source | MV | 110 | 1=Motion | 1=Motion, 2=Schedule, 3=Motion during Schedule, 4=Motion or Schedule | Occupancy Configuration | All |
| Control Status | MV | 112 | 1=Off | 1=Off, 2=Cool, 3=Heat | | All |
| Arabic | MV | 120 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Czech | MV | 122 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Danish | MV | 123 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Dutch | MV | 124 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Finnish | MV | 125 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| German | MV | 126 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Hungarian | MV | 127 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Indonesian | MV | 128 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Italian | MV | 129 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Norwegian | MV | 130 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Polish | MV | 131 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Portuguese | MV | 132 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Slovak | MV | 133 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Swedish | MV | 134 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Turkish | MV | 135 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Comfort or economy mode | MV | 116 | 1=Comfort | 1=Comfort, 2=Economy | | 6500 |
| Reversing valve operation | MV | 117 | 1=O | 1=O, 2=B | | 6500 |
| Compressor - auxiliary interlock | MV | 118 | 1=Off | 1=Off, 2=On | | 6500 |
| Application | MV | 119 | 3= | 1=FCU | HVAC Configuration | 3500 |
| Application | MV | 119 | 1=Rooftop Unit | 1=Rooftop Unit, 2=Heat Pump | HVAC Configuration | 6500 |
| Schedule Type | MV | 136 | 1=7 days | 1=7 days, 2=5+2 days, 3=5+1+1 day | Occupancy Schedule | All |
| UI1 Type | MV | 141 | 2=Binary | 1=Therm., 2=Binary, 3=Voltage | | All |
| UI2 Type | MV | 142 | 2=Binary | 1=Therm., 2=Binary, 3=Voltage | | All |
| UI3 Type | MV | 143 | 1=Therm. | 1=Therm., 2=Binary, 3=Voltage | | 3500 |
| UI3 Type | MV | 143 | 3=Voltage | 1=Therm., 2=Binary, 3=Voltage | | 6500 |

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| UI4 Type | MV | 144 | 1=Therm. | 1=Therm., 2=Binary, 3=Voltage | | All |
| UI5 Type | MV | 145 | 1=Therm. | 1=Therm., 2=Binary, 3=Voltage | | All |
| UI6 Type | MV | 146 | 1=Therm. | 1=Therm., 2=Binary, 3=Voltage | | All |
| UI7 Type | MV | 147 | 3=Voltage | 1=Therm., 2=Binary, 3=Voltage | | All |
| UI8 Type | MV | 148 | 3=Voltage | 1=Therm., 2=Binary, 3=Voltage | | All |
| CO2 Autocalibration | MV | 152 | 2=Enabled | 1=Disabled, 2=Enabled | | All |
| Relative humidity sensor | MV | 154 | 2=Internal | 1=None, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20 | Inputs | All |
| Room Temperature Sensor | MV | 150 | 1=Wired | 1=Wired, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20 | Inputs | All |
| Temperature Alarm Enabled | MV | 156 | 1=Off | 1=Off, 2=On | | All |
| ADR Permission | MV | 157 | 1=Disabled | 1=Disabled, 2=Enabled | ADR | All |
| Fan Type | MV | 158 | 3=3 Speed (L-M-H) | 1=1 Speed (H), 2=2 Speed (L-H), 3=3 Speed (L-M-H), 4=ECM | Fan | 3500 |
| Japanese | MV | 159 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Hebrew | MV | 160 | 1=Disabled | 1=Disabled, 2=Enabled | Language Selection | All |
| Valve 2 Type | MV | 82 | 2=Floating | 1=On/Off, 2=Floating, 3=0-10V Direct Acting, 4=0-10V Reverse Acting | | 3500 |
| Wireless Device 11 - Function | MV | 310 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 12 - Function | MV | 320 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 13 - Function | MV | 330 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 14 - Function | MV | 340 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 15 - Function | MV | 350 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 16 - Function | MV | 360 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 17 - Function | MV | 370 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 18 - Function | MV | 380 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |

| Object Name | BACnet | | Default Value | Range Value | Room Controller[1] | |
|---|---|---|---|---|---|---|
| | Type | Inst. | | | Screen Name | Model(s) |
| Wireless Device 19 - Function | MV | 390 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| Wireless Device 20 - Function | MV | 400 | 6=Remove | 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer | | All |
| CO2 source | MV | 155 | 2=Local | 1=None, 2=Local, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20 | Environment | All |
| Enable Static IP | MV | 183 | 1=Dynamic | 1=Dynamic, 2=Static | | All |
| Enable WIFI | MV | 184 | 1=Disabled | 1=Disabled, 2=Enabled | | All |
| Hidden WIFI | MV | 185 | 1=Disabled | 1=Disabled, 2=Enabled | | All |
| Notification Type | MV | 186 | 1=Disabled | 1=Disabled, 2=Critical, 3=Warning, 4=Ok, 5=Informative | | All |
| Notification Display Type | MV | 187 | 3=All | 1=Disabled, 2=Custom Only, 3=All | Display | All |
| Occupancy Sensor | MV | 188 | 4=High | 1=Off, 2=Low, 3=Medium, 4=High | Occupancy Configuration | All |
| Proximity Sensor | MV | 189 | 4=High | 1=Off, 2=Low, 3=Medium, 4=High | | All |
| Custom Standby Text Color | MV | 190 | 1=White | 1=White, 2=Black | | All |
| HMI Setpoint | MV | 192 | 2=Slider | 1=None, 2=Slider, 3=Buttons (Attached SP Only) | Display | All |
| Button 1 | MV | 195 | 2=System Mode | 1=Disabled, 2=System Mode, 3=Fan Mode | Display | All |
| Button 2 | MV | 196 | 3=Fan Mode | 1=Disabled, 2=System Mode, 3=Fan Mode | Display | All |
| Info Item 1 | MV | 200 | 3=Humidity | 1=Disabled, 2=Outdoor Air Temperature, 3=Humidity, 4=CO2 Level | Display | All |
| Info Item 2 | MV | 201 | 4=CO2 Level | 1=Disabled, 2=Outdoor Air Temperature, 3=Humidity, 4=CO2 Level | Display | All |
| Info Item 3 | MV | 202 | 2=Outdoor Air Temperature | 1=Disabled, 2=Outdoor Air Temperature, 3=Humidity, 4=CO2 Level | Display | All |
| BACnet Baud Rate | MV | 8 | 7=Auto | 1=9600, 2=19200, 3=38400, 4=57600, 5=76800, 6=115200, 7=Auto | BACnet | All |
| Remote Device Access | MV | 193 | 1=Disabled | 1=Disabled, 2=Enabled | Lua Status | All |

# Program Objects

| Object Name | Instance | Description |
|---|---|---|
| Lua Program 1 | 1 | Monitors and controls the internal LUA4RC script.<br><br>Note: Script can be read/written via “File Objects” on page <?>. |