

VT8000 Room Controllers

VT8650 BACnet Integration Guide

Roof Top Unit (RTU), Heat Pump and Indoor Air Quality (IAQ)

Firmware Revision 2.5

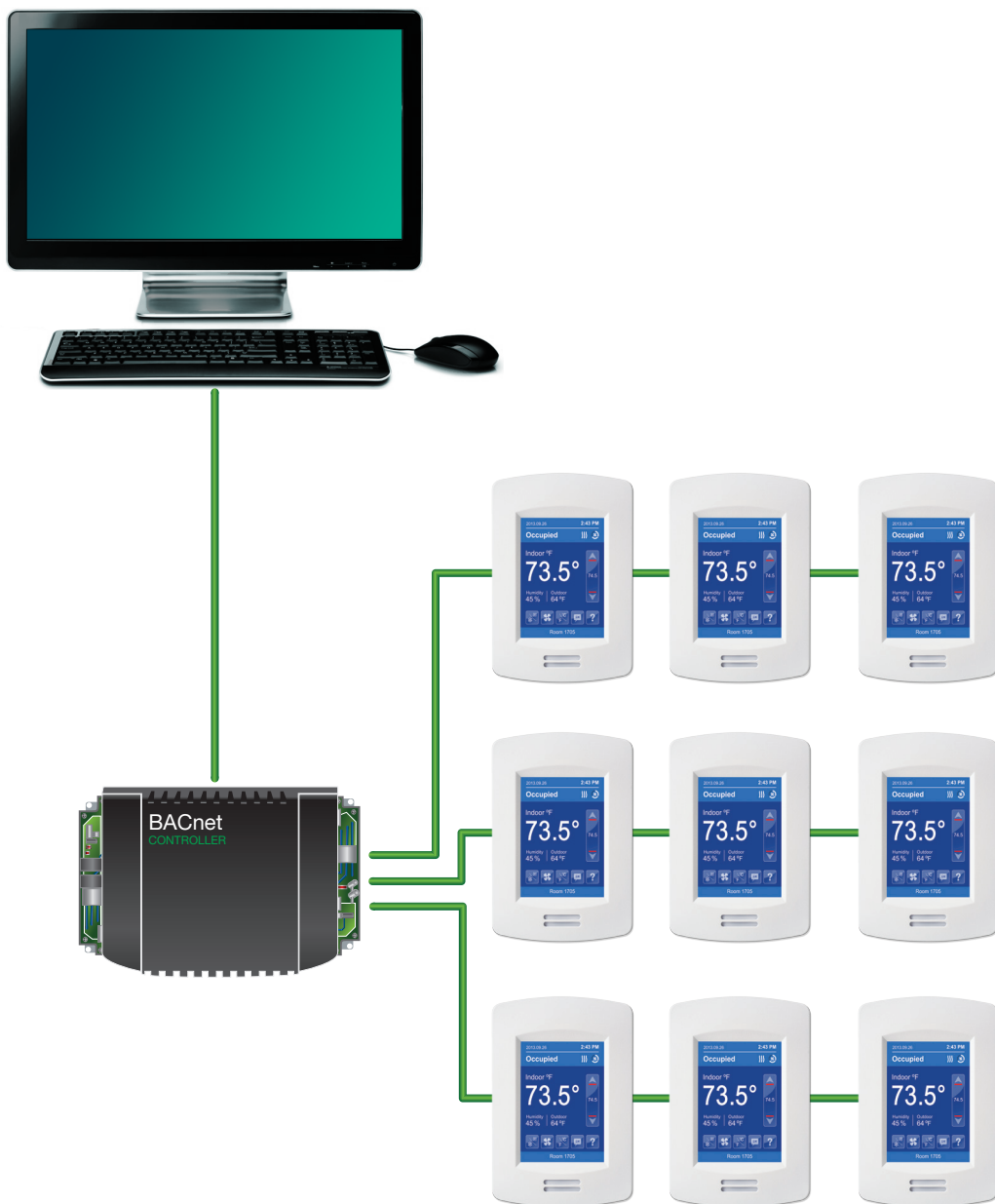


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Compatibility Specifications

Note: This document contains BACnet compatibility specifications of the Viconics Technologies VT8650 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 Name | Type and Instance | Object Property | Controller Parameter |
|---------------------|-------------------|---|--|
| VT8650 (all models) | Device | Object_Identifier Property 75 (R,W) | Unique ID number of a device on a network |
| | | Object_Name Property 77 (R,W) | Unique name of a device on a network |
| | | Model Name Property 70 (R) | Controller model number |
| | | Firmware Revision Property 44 (R) | Current BACnet® firmware revision used by controller |
| | | Protocol Version Property 98 (R) | Current BACnet® firmware protocol version Default is Version 1 |
| | | Protocol Revision Property 139 (R) | Current BACnet® firmware protocol revision Default is Version 2 |
| | | Max ADPU Length Property 62 (R) | Maximum ADPU Length accepted Default is 480 |
| | | ADPU Timeout Property 10 (R) | ADPU timeout value Default is 3000 ms |
| | | Application-Software-Version Property 12 (R) | Controller base application software version Default is based on current released version |
| | | Max_Master (R,W) | Maximum master devices allowed to be part of network. 0 to 127, default is 127 |
| | | Description Property 28 (R,W) | String of printable characters (Same as “Long Screen Message” CSV2) |
| | | Location Property 58 (R,W) | String of printable characters (Same as “Short Screen Message” CSV1) |
| | | Local Date Property 56 (R) | Indicates date to best of device knowledge |
| | | Local Time Property 57 (R) | Indicated time of day best of the device knowledge |

Object Properties

NOTE 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: Initialization of LUA4RC scripts. (Do not use priorities 4-16 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 Property 36 | Indicates if object has an active event state associated with it |
| 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) the physical input object represents is not in service |
| Read / Write* | Read / Write | Read / Write | Present Value Property 85 | Contains values of all properties specified |
| N/A | Read Only | Read Only | Priority Array Property 87 | Read-only array of prioritized values |
| Read Only | Read Only | Read Only | Reliability Property 103 | Indicates if Present_Value is "reliable" |
| N/A | Read Only | 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 | Read Only | Status Flags Property 111 | Represents flags that indicate general health of life safety point object |
| Read Only | Read Only | Read Only | Units Property 177 | Indicates measurement units of Present_Value |
| N/A | Read / Write | Read / Write | Hight Limit Property 1101 | Specifies a limit Present_Value must exceed before an event is generated |
| N/A | Read / Write | Read / Write | Low Limit 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 set-points, 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

NOTE 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: Initialization of LUA4RC scripts. (Do not use priorities 4-16 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 Property 36 | Indicates object has an active event state associated with it |
| 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 | Present Value Property 85 | Contains values of all properties specified |
| Read Only | Status Flags Property 111 | Represents flags that indicate general health of life safety point object |

File Objects

| Read/Write | Object Property | Controller Parameter |
|--------------|--------------------------------|--|
| Read Only | Archive Property 13 | Set to FALSE when the Modification_Date property changes for any reason. An archiving process to set the value of this property to TRUE when it completes. |
| Read Only | File Access Method Property 41 | Indicates the type(s) of file access supported for this object. Supported: "1: Stream Access". |
| Read / Write | File Size Property 42 | Indicates the size of the file data in octets. Writing a value of 0 erases file data contents. |
| Read Only | File Type Property 43 | Identifies the intended use of this file |
| Read Only | Modification Date Property 71 | Indicates the last time the underlying file data or File_Size of this object was modified |
| 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 | File type object |
| Read Only | Read Only Property 99 | Whether FALSE or TRUE the file data may be changed through the use of the AtomicWriteFile service |
| Read Only | Profile Name 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 Property 36 | Indicates if object has an active event state associated with it |
| Read Only | Read Only | Number of States Property 74 | Defines number of states Present_Value may have |
| Read Only | Read Only | Object Identifier Property 75 | Unique ID number of an object on a network |
| Read Only | Read Only | Object Name Property 77 | Unique name of an object on a network |
| Read Only | Read Only | Object Type Property 79 | Indicates membership in a particular object type class |

| Object Type Read/Write Settings | | Object Property | Controller Parameter |
|---------------------------------|--------------|---------------------------------|--|
| Input MSI | Values MV | | |
| Read / Write | Read / Write | Out of Service Property 81 | Indicates whether (TRUE/FALSE) physical input object represents is not in service |
| 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 | 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

| Analog Input Properties | | | | | |
|----------------------------------|----------|---------------|---------------------|---------------------|------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Light Sensor Level | 2 | 0 | 0 | 30000 | Lux |
| Relative Humidity Raw Value | 4 | 0 | 0 | 1000 | % |
| UI20 Raw Value | 5 | 0 | 0 | 4095 | --- |
| UI23 Raw Value | 7 | 0 | 0 | 4095 | --- |
| UI22 Raw Value | 8 | 0 | 0 | 4095 | --- |
| UI24 Raw Value | 9 | 0 | 0 | 4095 | --- |
| UI19 Raw Value | 31 | 0 | 0 | 4095 | --- |
| RH Temperature Raw Value | 32 | 0 | -400 | 1220 | |
| UI16 Raw Value | 33 | 0 | 0 | 4095 | |
| UI17 Raw Value | 34 | 0 | 0 | 4095 | |
| Wireless Device 1 - Temperature | 315 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 2 - Temperature | 316 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 3 - Temperature | 317 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 4 - Temperature | 318 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 5 - Temperature | 319 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 6 - Temperature | 320 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 7 - Temperature | 321 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 8 - Temperature | 322 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 9 - Temperature | 323 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Wireless Device 10 - Temperature | 324 | -40°F (-40°C) | -40°F (-40°C) | 185°F (85°C) | Fahrenheit/ Celsius |
| Effective Setpoint | 329 | 0°F (-18°C) | 40°F (4°C) | 100°F (38°C) | Fahrenheit/ Celsius |
| Paired ZigBee Devices | 330 | 0 | 0 | 20 | |
| Therm. Raw Value | 340 | 0 | -400 | 1220 | |
| SH Therm. Raw Value | 341 | 0 | -400 | 1220 | |
| Wi-Fi Network Signal Strength | 342 | 0 | 0 | 100 | Percent |
| Wi-Fi Module Boot Count | 343 | 0 | 0 | 32767 | |
| Wireless Device 11 - Temperature | 355 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 12 - Temperature | 356 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 13 - Temperature | 357 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |

| Analog Input Properties | | | | | |
|----------------------------------|----------|---------------|---------------------|---------------------|------------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 14 - Temperature | 358 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 15 - Temperature | 359 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 16 - Temperature | 360 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 17 - Temperature | 361 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 18 - Temperature | 362 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 19 - Temperature | 363 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 20 - Temperature | 364 | -40°F (-40°C) | -40°F(-40°C) | 185°F(85°C) | Fahrenheit/ Celsius |
| Wireless Device 1 - Humidity | 365 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 2 - Humidity | 366 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 3 - Humidity | 367 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 4 - Humidity | 368 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 5 - Humidity | 369 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 6 - Humidity | 370 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 7 - Humidity | 371 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 8 - Humidity | 372 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 9 - Humidity | 373 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 10 - Humidity | 374 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 11 - Humidity | 375 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 12 - Humidity | 376 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 13 - Humidity | 377 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 14 - Humidity | 378 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 15 - Humidity | 379 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 16 - Humidity | 380 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 17 - Humidity | 381 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 18 - Humidity | 382 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 19 - Humidity | 383 | 0 | 0 | 100 | Percent Relative Humidity |
| Wireless Device 20 - Humidity | 384 | 0 | 0 | 100 | Percent Relative Humidity |

| Analog Input Properties | | | | | |
|--------------------------|----------|---------------|---------------------|---------------------|-------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 1 - CO2 | 385 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 2 - CO2 | 386 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 3 - CO2 | 387 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 4 - CO2 | 388 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 5 - CO2 | 389 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 6 - CO2 | 390 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 7 - CO2 | 391 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 8 - CO2 | 392 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 9 - CO2 | 393 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 10 - CO2 | 394 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 11 - CO2 | 395 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 12 - CO2 | 396 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 13 - CO2 | 397 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 14 - CO2 | 398 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 15 - CO2 | 399 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 16 - CO2 | 400 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 17 - CO2 | 401 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 18 - CO2 | 402 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 19 - CO2 | 403 | 0 | 0 | 5000 | Parts per Million |
| Wireless Device 20 - CO2 | 404 | 0 | 0 | 5000 | Parts per Million |

Analog Output Properties

| Analog Output Properties | | | | | |
|---------------------------|----------|---------------|---------------------|---------------------|-------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| PI Heating Demand | 21 | 0 | 0 | 100 | % |
| PI Cooling Demand | 22 | 0 | 0 | 100 | % |
| Economizer Demand | 23 | 0 | 0 | 100 | % |
| Analog Output Heat Demand | 24 | 0 | 0 | 100 | % |
| UO11 Analog Output | 123 | 0 | 0 | 10 | Voltage |
| UO12 Analog Output | 124 | 0 | 0 | 10 | Voltage |
| UO9 Analog Output | 125 | 0 | 0 | 10 | Voltage |
| UO10 Analog Output | 126 | 0 | 0 | 10 | Voltage |

Analog Value Properties

| Analog Value Properties | | | | | |
|-----------------------------------|----------|---------------|---------------------|---------------------|------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| User HMI | 2 | 0 | 0 | 12 | Show/Hide screen icons |
| Low Backlight | 3 | 60 | 0 | 100 | % |
| Night Backlight | 4 | 5 | 0 | 100 | % |
| Calibrate Room Temperature Sensor | 7 | 0 | -5°F (-20°C) | 5°F (10°C) | Fahrenheit/Celcius |
| Calibrate Humidity Sensor | 8 | 0 | -15 | 15 | % |
| COM Address | 10 | 254 | 0 | 254 | COM address |
| BACnet Stack Poll Rate | 16 | 4 | 1 | 5 | ---- |
| Discharge Low Limit | 20 | 45°F (7°C) | 35°F (2°C) | 65°F (18°C) | Fahrenheit/Celcius |
| Minimum Fresh Air | 21 | 0 | 0 | 20000 | ft³/min |
| Maximum Fresh Air | 22 | 0 | 0 | 20000 | ft³/min |
| Minimum CO2 | 23 | 800 | 0 | 5000 | ppm |
| Maximum CO2 | 24 | 1200 | 0 | 5000 | ppm |
| Lua Parameter A (AV25) | 25 | 0 | -32768 | 32767 | ---- |
| Lua Parameter B (AV26) | 26 | 0 | -32768 | 32767 | ---- |
| Lua Parameter C (AV27) | 27 | 0 | -32768 | 32767 | ---- |
| Lua Parameter D (AV28) | 28 | 0 | -32768 | 32767 | ---- |
| Lua Parameter E (AV29) | 29 | 0 | -32768 | 32767 | ---- |
| Lua Parameter F (AV30) | 30 | 0 | -32768 | 32767 | ---- |
| Occupied Heat Setpoint | 39 | 72°F (22°C) | 40°F (4.5°C) | 90°F (32°C) | Fahrenheit/Celcius |
| Occupied Cool Setpoint | 40 | 75°F (24°C) | 54°F (12°C) | 100°F (38°C) | Fahrenheit/Celcius |
| Standby Heat Setpoint | 41 | 69°F (21°C) | 40°F (4.5°C) | 90°F (32°C) | Fahrenheit/Celcius |
| Standby Cool Setpoint | 42 | 78°F (21°C) | 54°F (26°C) | 100°F (38°C) | Fahrenheit/Celcius |
| Unoccupied Heat Setpoint | 43 | 62°F (17°C) | 40°F (4.5°C) | 90°F (32°C) | Fahrenheit/Celcius |
| Unoccupied Cool Setpoint | 44 | 80°F (27°C) | 54°F (26°C) | 100°F (38°C) | Fahrenheit/Celcius |
| Default Heating Setpoint | 45 | 72°F (22°C) | 65°F (18°C) | 80°F (27°C) | Fahrenheit/Celcius |
| Standby Temperature Differential | 46 | 34°F (1.5°C) | 33°F (0.5°C) | 37°F (2.5°C) | Fahrenheit/Celcius |
| Main Password | 56 | 0 | 0 | 9999 | Installer password |
| User Password | 57 | 0 | 0 | 9999 | User password |
| Heating Setpoint Limit | 58 | 90°F (32°C) | 40°F (4.5°C) | 90°F (32°C) | Fahrenheit/Celcius |
| Cooling Setpoint Limit | 59 | 54°F (26°C) | 54°F (26°C) | 100°F (38°C) | Fahrenheit/Celcius |
| Temporary Occupancy Time | 62 | 2 | 0 | 24 | Hours |

| Analog Value Properties | | | | | |
|--|----------|---------------|---------------------|---------------------|-------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Minimum Deadband | 63 | 35°F (1.5°C) | 34°F (1.11°C) | 37°F (2.5°C) | Fahrenheit/ Celcius |
| Proportional Band | 65 | 3 | 3 | 10 | ---- |
| Standby Time | 67 | 0.5 | 0.5 | 24 | Hours |
| Unoccupied Time | 68 | 0 | 0 | 24 | Hours |
| Dehumidification Setpoint | 71 | 50 | 30 | 95 | %RH |
| Dehumidification Hysteresis | 72 | 5 | 2 | 20 | %RH |
| Calibrate Outside Temperature Sensor | 74 | 32°F (0°C) | 28°F (-2.5°C) | 37°F (2.5°C) | Fahrenheit/ Celcius |
| Number of Cooling Stages | 75 | 2 | 1 | 2 | Stages |
| Power-up Delay | 76 | 10 | 10 | 120 | Seconds |
| Economizer Minimum Position | 78 | 0 | 0 | 100 | % |
| Economizer Maximum Position | 81 | 0 | 0 | 100 | % |
| High balance point | 82 | 90°F (32°C) | 34°F (1°C) | 90°F (32°C) | Fahrenheit/ Celcius |
| Low balance point | 83 | -11°F (-24°C) | -40°F (-40°C) | 30°F (-1°C) | Fahrenheit/ Celcius |
| Heating CPH | 84 | 4 | 3 | 8 | Cycles/Hour |
| Cooling CPH | 85 | 4 | 3 | 4 | Cycles/Hour |
| Anti Short Cycle Time | 86 | 2 | 0 | 5 | Minutes |
| Number of Heating Stages | 87 | 2 | 0 | 2 | Stages |
| Heating Demand Limit | 88 | 0 | 0 | 100 | % |
| Cooling Demand Limit | 89 | 0 | 0 | 100 | % |
| Heating Lockout from Outside Air Temperature | 91 | 120°F (49°C) | -15°F (-26°C) | 120°F (49°C) | Fahrenheit/ Celcius |
| Keyboard Value | 92 | 0 | 0 | 35 | ---- |
| Cooling Lockout | 93 | -40°F (-40°C) | -40°F (-40°C) | 95°F (35°C) | Fahrenheit/ Celcius |
| Supply Air Setpoint | 94 | 55°F (13°C) | 50°F (10°C) | 90°F (32°C) | Fahrenheit/ Celcius |
| Changeover Setpoint | 95 | 55°F (13°C) | 14°F (10°C) | 70°F (21°C) | Fahrenheit/ Celcius |
| Fresh Air Range Upper Limit | 96 | 0 | 0 | 20,000 | Ft ³ /Minute |
| Minimum Supply Heat | 97 | 64°F (18°C) | 50°F (10°C) | 72°F (22°C) | Fahrenheit/ Celcius |
| Supply Heat Lockout | 98 | 32°F (0°C) | -15°F (-26°C) | 120°F (49°C) | Fahrenheit/ Celcius |
| Discharge High Limit | 99 | 120°F (49°C) | 70°F (21°C) | 150°F (65.5°C) | Fahrenheit/ Celcius |
| Room Temperature | 100 | 0°F (-18°C) | -40°F (-40°C) | 122°F (50°C) | Fahrenheit/ Celcius |
| Outdoor Temperature | 101 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI22 Supply Temperature | 102 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| Room Humidity | 103 | 0 | 0 | 100 | %RH |

| Analog Value Properties | | | | | |
|------------------------------------|----------|---------------|---------------------|---------------------|------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| UI19 Temperature | 104 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI20 Remote Temperature | 105 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| CO2 Level | 106 | 0 | 0 | 5000 | ppm |
| Airflow Level | 107 | 0 | 0 | 20,000 | ft ³ /min |
| UI19 Analog Input | 108 | 0 | 0 | 10 | Voltage |
| UI24 Temperature | 109 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI16 Analog Input | 111 | 0 | 0 | 10 | Voltage |
| UI17 Analog Input | 112 | 0 | 0 | 10 | Voltage |
| UI20 Analog Input | 113 | 0 | 0 | 10 | Voltage |
| UI22 Analog Input | 114 | 0 | 0 | 10 | Voltage |
| UI23 Analog Input | 115 | 0 | 0 | 10 | Voltage |
| UI24 Analog Input | 116 | 0 | 0 | 10 | Voltage |
| UI16 Temperature | 117 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI17 Temperature | 118 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI20 Temperature | 120 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI22 Temperature | 121 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI23 Temperature | 122 | 0°F (-18°C) | -40°F (-40°C) | 180°F (82°C) | Fahrenheit/ Celcius |
| UI19 Lua | 202 | 0 | -32768 | 32767 | ---- |
| UI20 Lua | 203 | 0 | -32768 | 32767 | ---- |
| UI22 Lua | 204 | 0 | -32768 | 32767 | ---- |
| UI23 Lua | 205 | 0 | -32768 | 32767 | ---- |
| UI24 Lua | 206 | 0 | -32768 | 32767 | ---- |
| Ambient Low Temperature Threshold | 209 | 40°F(4°C) | 32°F(0°C) | 50°F(10°C) | Fahrenheit/ Celcius |
| Temperature Alarm Hysteresis | 210 | 2°F(-17°C) | 0°F(-18°C) | 10°F(-12°C) | Fahrenheit/ Celcius |
| Load Shedding Offset | 211 | 4°F(-16°C) | 4°F(-16°C) | 10°F(-12°C) | Fahrenheit/ Celcius |
| Lua Parameter G (AV225) | 225 | 0 | -32768 | 32767 | ---- |
| Lua Parameter H (AV226) | 226 | 0 | -32768 | 32767 | ---- |
| Lua Parameter I (AV227) | 227 | 0 | -32768 | 32767 | ---- |
| Lua Parameter J (AV228) | 228 | 0 | -32768 | 32767 | ---- |
| Lua Parameter K (AV229) | 229 | 0 | -32768 | 32767 | ---- |
| Lua Parameter L (AV230) | 230 | 0 | -32768 | 32767 | ---- |
| Standby Screen Delay | 270 | 150 | 5 | 300 | Seconds |
| Ambient High Temperature Threshold | 275 | 86°F (30°C) | 32°F (0°C) | 122°F (50°C) | Fahrenheit/ Celcius |

| Analog Value Properties | | | | | |
|--|----------|---------------|---------------------|---------------------|------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Refrigeration High Temperature Threshold | 276 | 40°F (4°C) | 32°F (0°C) | 60°F (16°C) | Fahrenheit/ Celcius |
| Refrigeration Low Temperature Threshold | 277 | 32°F (0°C) | 32°F (0°C) | 50°F (10°C) | Fahrenheit/ Celcius |
| Freezer High Temperature Threshold | 278 | 0°F (-18°C) | -40°F (-40°C) | 32°F (0°C) | Fahrenheit/ Celcius |

Binary Objects

Binary Input Properties

| Binary Input Properties | | | | | |
|-------------------------|----------|---------------|---------------------|---------------------|------------------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| UI16 Binary Input | 29 | 0 | 0 | 1 | 0 = Activated 1 = Not Activated |
| UI17 Binary Input | 30 | 0 | 0 | 1 | 0 = Activated 1 = Not Activated |
| UI19 Binary Input | 91 | 0 | 0 | 1 | 0 = Activated 1 = Not Activated |
| UI20 Binary Input | 94 | 0 | 0 | 1 | 0 = Activated 1 = Not Activated |
| UI22 Binary Input | 95 | 0 | 0 | 1 | 0 = Activated 1 = Not Activated |
| UI23 Binary Input | 96 | 0 | 0 | 1 | 0 = Activated 1 = Not Activated |
| UI24 Binary Input | 97 | 0 | 0 | 1 | 0 = Activated 1 = Not Activated |

Binary Output Properties

| Binary Output Properties | | | | | |
|-----------------------------|----------|---------------|---------------------|---------------------|-------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| G Fan Status | 25 | 0 | 0 | 1 | 0 = Off 1 = On |
| Y1 Status | 26 | 0 | 0 | 1 | 0 = Off 1 = On |
| Y2 Status | 27 | 0 | 0 | 1 | 0 = Off 1 = On |
| W1 Status | 28 | 0 | 0 | 1 | 0 = Off 1 = On |
| W2/OB Status | 29 | 0 | 0 | 1 | 0 = Off 1 = On |
| UO10 Binary Output | 94 | 0 | 0 | 1 | 0 = Off 1 = On |
| BO1 Auxiliary Binary Output | 98 | 0 | 0 | 1 | 0 = Off 1 = On |
| UO11 Binary Output | 101 | 0 | 0 | 1 | 0 = Off 1 = On |
| UO12 Binary Output | 102 | 0 | 0 | 1 | 0 = Off 1 = On |

Binary Value Properties

| Binary Value Properties | | | | | |
|-----------------------------|----------|---------------|---------------------|---------------------|-----------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Door Contact Status | 1 | 0 | 0 | 1 | 0 = Closed 1 = Open |
| Door Contact Installed | 2 | 0 | 0 | 1 | 0 = No 1 = Yes |
| Window Contact Status | 3 | 0 | 0 | 1 | 0 = Closed 1 = Open |
| Window Contact Installed | 4 | 0 | 0 | 1 | 0 = No 1 = Yes |
| Low Battery Alarm | 5 | 0 | 0 | 1 | 0 = Off 1 = On |
| Force High Backlight | 6 | 0 | 0 | 1 | 0 = Off 1 = On |
| Display Long Screen Message | 7 | 0 | 0 | 1 | 0 = Off 1 = On |
| Clock Alarm | 8 | 0 | 0 | 1 | 0 = Off 1 = On |
| Exception Status | 10 | 0 | 0 | 1 | 0 = Off 1 = On |
| PIR Local Motion | 32 | 0 | 0 | 1 | 0 = No motion 1 = Motion |
| Window Alarm | 35 | 0 | 0 | 1 | 0 = Off 1 = On |
| Filter Alarm | 36 | 0 | 0 | 1 | 0 = Off 1 = On |
| Service Alarm | 37 | 0 | 0 | 1 | 0 = Off 1 = On |
| Dehumidification Status | 38 | 0 | 0 | 1 | 0 = Off 1 = On |
| Fan Lock Alarm | 39 | 0 | 0 | 1 | 0 = Off 1 = On |
| Smart Recovery Status | 40 | 0 | 0 | 1 | 0 = Off 1 = On |
| CO2 Alarm | 41 | 0 | 0 | 1 | 0 = Off 1 = On |
| Low Fresh Air Alarm | 42 | 0 | 0 | 1 | 0 = Off 1 = On |
| Frost Protection Alarm | 43 | 0 | 0 | 1 | 0 = Off 1 = On |
| Water Leak | 44 | 0 | 0 | 1 | 0 = Off 1 = On |
| Water Leak Sensor Installed | 45 | 0 | 0 | 1 | 0 = No 1 = Yes |
| Water leak sensor status | 46 | 0 | 0 | 1 | 0 = Normal 1 = Leak |
| Low Temperature | 47 | 0 | 0 | 1 | 0 = Off 1 = On |
| Load Shedding Demand | 48 | 0 | 0 | 1 | 0 = Off 1 = On |
| Load Shedding Status | 49 | 0 | 0 | 1 | 0 = Off 1 = On |
| Load Shedding Override | 50 | 0 | 0 | 1 | 0 = Off 1 = On |

| Binary Value Properties | | | | | |
|-----------------------------|----------|---------------|---------------------|---------------------|-----------------------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| High Temperature | 53 | | | | |
| ZigBee PIR Sensor Installed | 200 | 0 | 0 | 1 | 0 = Off 1 = On |
| ZigBee Sensor Motion | 201 | 0 | 0 | 1 | 0 = No motion 1 = Motion |

CSV Objects

| CSV Properties | | | | | |
|------------------------------|----------|---------------|---------------------|---------------------|-------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Short Screen Message Text | 1 | 0 | 0 | 64 | ---- |
| Long Screen Message Text | 2 | 0 | 0 | 480 | ---- |
| External Memory Revision | 3 | 0 | 0 | 17 | ---- |
| Wi-Fi Device Name | 4 | 0 | 0 | 63 | ---- |
| Wi-Fi Firmware Version | 5 | 0 | 0 | 63 | ---- |
| MAC Address | 6 | 0 | 0 | 18 | ---- |
| Wi-Fi Network SSID | 7 | 0 | 0 | 33 | ---- |
| Wi-Fi Network IP Address | 8 | 0 | 0 | 46 | ---- |
| ZigBee Firmware Revision | 9 | 0 | 0 | 32 | ---- |
| Zigbee IEEE Address | 10 | 0 | 0 | 18 | ---- |
| Wireless Device 1 - Address | 11 | 0 | 0 | 18 | ---- |
| Wireless Device 2 - Address | 12 | 0 | 0 | 18 | ---- |
| Wireless Device 3 - Address | 13 | 0 | 0 | 18 | ---- |
| Wireless Device 4 - Address | 14 | 0 | 0 | 18 | ---- |
| Wireless Device 5 - Address | 15 | 0 | 0 | 18 | ---- |
| Wireless Device 6 - Address | 16 | 0 | 0 | 18 | ---- |
| Wireless Device 7 - Address | 17 | 0 | 0 | 18 | ---- |
| Wireless Device 8 - Address | 18 | 0 | 0 | 18 | ---- |
| Wireless Device 9 - Address | 19 | 0 | 0 | 18 | ---- |
| Wireless Device 10 - Address | 20 | 0 | 0 | 18 | ---- |
| Wireless Device 11 - Address | 21 | 0 | 0 | 18 | ---- |
| Wireless Device 12 - Address | 22 | 0 | 0 | 18 | ---- |
| Wireless Device 13 - Address | 23 | 0 | 0 | 18 | ---- |
| Wireless Device 14 - Address | 24 | 0 | 0 | 18 | ---- |
| Wireless Device 15 - Address | 25 | 0 | 0 | 18 | ---- |
| Wireless Device 16 - Address | 26 | 0 | 0 | 18 | ---- |
| Wireless Device 17 - Address | 27 | 0 | 0 | 18 | ---- |

| CSV Properties | | | | | |
|------------------------------|----------|---------------|---------------------|---------------------|-------------|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 18 - Address | 28 | 0 | 0 | 18 | ---- |
| Wireless Device 19 - Address | 29 | 0 | 0 | 18 | ---- |
| Wireless Device 20 - Address | 30 | 0 | 0 | 18 | ---- |

File Objects

| File Object Properties | | |
|------------------------|----------|--|
| Object name | Instance | Description |
| Custom Lua File | 1 | <p>Read/write access to the LUA4RC script. The script can be written via this object, or via USB.</p> <p>Note: "Program Objects" on page 39 can be used to monitor and control the script execution.</p> |

Multi-State Objects

Multi-State Input Properties

| Multi-State Input Properties | | | | | |
|---------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| ZigBee Network Status | 2 | 1 | 1 | 5 | 1 = Not det. 2 = Pwr on 3 = No NWK 4 = Joined 5 = Online |
| Effective Occupancy | 33 | 1 | 1 | 4 | 1 = Occupied 2 = Unoccupied 3 = Override 4 = Standby |
| Wireless Device 1 - Sensor Type | 180 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 2 - Sensor Type | 181 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |

| Multi-State Input Properties | | | | | |
|---------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 3 - Sensor Type | 182 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 4 - Sensor Type | 183 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 5 - Sensor Type | 184 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 6 - Sensor Type | 185 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 7 - Sensor Type | 186 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 8 - Sensor Type | 187 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 9 - Sensor Type | 188 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |

| Multi-State Input Properties | | | | | |
|----------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 10 - Sensor Type | 189 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 11 - Sensor Type | 190 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 12 - Sensor Type | 191 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 13 - Sensor Type | 192 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 14 - Sensor Type | 193 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 15 - Sensor Type | 194 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 16 - Sensor Type | 195 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |

| Multi-State Input Properties | | | | | |
|--|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 17 - Sensor Type | 196 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 18 - Sensor Type | 197 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 19 - Sensor Type | 198 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 20 - Sensor Type | 199 | 1 | 1 | 8 | 1=None 2=Unknown 3=Motion 4=Contact 5=Water 6=Temp. 7=Temp./RH 8=CO2 |
| Wireless Device 1 - Status | 210 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 1 - Battery | 211 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |
| Wireless Device 1 - Communication Status | 212 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 2 - Status | 220 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 2 - Battery | 221 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |

| Multi-State Input Properties | | | | | |
|--|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 2 - Communication Status | 222 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 3 - Status | 230 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 3 - Battery | 231 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |
| Wireless Device 3 - Communication Status | 232 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 4 - Status | 240 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 4 - Battery | 241 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |
| Wireless Device 4 - Communication Status | 242 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 5 - Status | 250 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 5 - Battery | 251 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |
| Wireless Device 5 - Communication Status | 252 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 6 - Status | 260 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 6 - Battery | 261 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |

| Multi-State Input Properties | | | | | |
|--|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 6 - Communication Status | 262 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 7 - Status | 270 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 7 - Battery | 271 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |
| Wireless Device 7 - Communication Status | 272 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 8 - Status | 280 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 8 - Battery | 281 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |
| Wireless Device 8 - Communication Status | 282 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 9 - Status | 290 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 9 - Battery | 291 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |
| Wireless Device 9 - Communication Status | 292 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Wireless Device 10 - Status | 300 | 1 | 1 | 7 | 1 = None 2 = Closed 3 = Opened 4 = No motion 5 = Motion 6 = Normal 7 = Leak |
| Wireless Device 10 - Battery | 301 | 1 | 1 | 3 | 1 = None 2 = Normal 3 = Low |

| Multi-State Input Properties | | | | | |
|---|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 10 - Communication Status | 302 | 1 | 1 | 4 | 1 = Not paired 2 = Online 3 = Invalid 4 = Offline |
| Effective Temperature Sensor | 309 | 1 | 1 | 23 | 1=Wired 2=Internal 3=WL IO 4=WL 1 5=WL 2 6=WL 3 7=WL 4 8=WL 5 9=WL 6 10=WL 7 11=WL 8 12=WL 9 13=WL 10 14=WL 11 15=WL 12 16=WL 13 17=WL 14 18=WL 15 19=WL 16 20=WL 17 21=WL 18 22=WL 19 23=WL 20 |
| Wireless Device 11 - Status | 310 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 11 - Battery | 311 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 11 - Communication Status | 312 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |

| Multi-State Input Properties | | | | | |
|------------------------------------|----------|---------------|---------------------|---------------------|--|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Effective Relative Humidity Sensor | 313 | 1 | 1 | 22 | 1=None 2=Internal 3=WL 1 4=WL 2 5=WL 3 6=WL 4 7=WL 5 8=WL 6 9=WL 7 10=WL 8 11=WL 9 12=WL 10 13=WL 11 14=WL 12 15=WL 13 16=WL 14 17=WL 15 18=WL 16 19=WL 17 20=WL 18 21=WL 19 22=WL 20 |
| Effective System Mode | 314 | 1 | 1 | 2 | 1 = Cool 2 = Heat |
| Wi-Fi Module Status | 315 | 1 | 1 | 7 | 1 = Offline 2 = Initializing 3 = Ready 4 = Booting 5 = Resetting 6 = Fail 7 = Testing |
| Wi-Fi Status | 316 | 1 | 1 | 7 | 1= Idle 2 = Associate 3 = Config. 4 = Ready 5 = Online 6 = Disconn. 7 = Failure |
| BACnet IP Status | 317 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| SMTP Server Status | 318 | 1 | 1 | 4 | 1 = Unkown 2 = Disabled 3 = Offline 4 = Online |
| Facility Expert Enabled | 319 | 1 | 1 | 2 | 1=Disabled 2=Enabled |
| Wireless Device 12 - Status | 320 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 12 - Battery | 321 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |

| Multi-State Input Properties | | | | | |
|---|----------|---------------|---------------------|---------------------|--|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 12 - Communication Status | 322 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |
| Facility Expert Status | 323 | 1 | 1 | 6 | 1=Disabled 2=Offline 3=Connect. 4=Online 5=Failure 6=Unknown |
| CO2 Effective Source | 324 | 1 | 1 | 24 | 1=None 2=Internal 3=Error 4=Wired 5=WL 1 6=WL 2 7=WL 3 8=WL 4 9=WL 5 10=WL 6 11=WL 7 12=WL 8 13=WL 9 14=WL 10 15=WL 11 16=WL 12 17=WL 13 18=WL 14 19=WL 15 20=WL 16 21=WL 17 22=WL 18 23=WL 19 24=WL 20 |
| Time source | 325 | 1 | 1 | 5 | 1=None 2=Local 3=BACnet 4=NTP 5=Cloud |
| Fan Speed Status | 326 | 1 | 1 | 4 | 1 = Off 2 = Low 3 = Medium 4 = High |
| Wireless Device 13 - Status | 330 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 13 - Battery | 331 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 13 - Communication Status | 332 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |

| Multi-State Input Properties | | | | | |
|---|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 14 - Status | 340 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 14 - Battery | 341 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 14 - Communication Status | 342 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |
| Wireless Device 15 - Status | 350 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 15 - Battery | 351 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 15 - Communication Status | 352 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |
| Wireless Device 16 - Status | 360 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 16 - Battery | 361 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 16 - Communication Status | 362 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |
| Wireless Device 17 - Status | 370 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 17 - Battery | 371 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 17 - Communication Status | 372 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |

| Multi-State Input Properties | | | | | |
|---|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 18 - Status | 380 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 18 - Battery | 381 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 18 - Communication Status | 382 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |
| Wireless Device 19 - Status | 390 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 19 - Battery | 391 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 19 - Communication Status | 392 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |
| Wireless Device 20 - Status | 400 | 1 | 1 | 7 | 1=None 2=Closed 3=Opened 4=No motion 5=Motion 6=Normal 7=Leak |
| Wireless Device 20 - Battery | 401 | 1 | 1 | 3 | 1=None 2=Normal 3=Low |
| Wireless Device 20 - Communication Status | 402 | 1 | 1 | 4 | 1=Not paired 2=Online 3=Invalid 4=Offline |

Multi-State Value Properties

| Multi-State Value Properties | | | | | |
|-------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Long Message Background Color | 1 | 1 | 1 | 11 | 1=White 2=Green 3=Blue 4=Grey 5=Dark grey 6=Pink 7=Purple 8=Red 9=Orange 10=Black 11=Default |
| HMI Color | 2 | 1 | 1 | 10 | 1=White 2=Green 3=Blue 4=Grey 5=Dark grey 6=Pink 7=Purple 8=Red 9=Orange 10=Black |
| Main Display | 3 | 1 | 1 | 2 | 1 = Temperature 2 = Setpoint |
| Display Language | 4 | 1 | 1 | 23 | 1 = English 2 = French 3 = Spanish 4 = Chinese 5 = Russian 6 = Arabic 7 = Bulgarian 8 = Czech 9 = Danish 10 = Dutch 11 = Finnish 12 = German 13 = Hungarian 14 = Indonesian 15 = Italian 16 = Norwegian 17 = Polish 18 = Portuguese 19 = Slovak 20 = Swedish 21 = Turkish 22 = Japanese 23 = Hebrew |
| Time Format | 5 | 1 | 1 | 2 | 1 = AM-PM 2 = 24 Hours |
| Network Units | 6 | 1 | 1 | 2 | 1 = SI 2 = Imperial |
| Network Language | 7 | 1 | 1 | 3 | 1 = English 2 = French 3 = Spanish |

| Multi-State Value Properties | | | | | |
|------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| BACnet Baud Rate | 8 | 7 | 1 | 7 | 1 = 9600 2 = 19200 3 = 38400 4 = 57600 5 = 76800 6 = 115200 7 = Auto |
| Occupancy Command | 10 | 2 | 1 | 3 | 1 = Loc. occ 2 = Occupied 3 = Unocc. |
| Standby Mode Configuration | 11 | 1 | 1 | 2 | 1 = Absolute 2 = Offset |
| Fan Delay | 12 | 2 | 1 | 2 | 1 = Off 2 = On |
| Dehumidification Lockout | 13 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| System Mode | 16 | 4 | 1 | 4 | 1 = Off 2 = Auto 3 = Cool 4 = Heat |
| Fan Mode | 17 | 2 | 1 | 3 | 1 = On 2 = Auto 3 = Smart |
| Use Standby Screen | 32 | 1 | 1 | 4 | 1 = No 2 = Yes 3 = Occ. only 4 = Screen sav |
| UI16 Configuration | 46 | 1 | 1 | 6 | 1 = None 2 = Rem NSB 3 = Motion NO 4 = Motion NC 5 = Window 6 = Fan lock |
| UI17 Configuration | 47 | 1 | 1 | 5 | 1 = None 2 = Door dry 3 = Override 4 = Filter 5 = Service |
| UI19 Configuration | 49 | 1 | 1 | 2 | 1 = None 2 = CO2 |
| Temperature Scale | 51 | 1 | 1 | 2 | 1 = °C 2 = °F |
| Frost Protection | 55 | 1 | 1 | 2 | 1 = Off 2 = On |
| Setpoint Function | 58 | 2 | 1 | 2 | 1 = Dual SP 2 = Attach SP |
| Room Humidity Display | 70 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Enable Smart Recovery | 71 | 1 | 1 | 2 | 1 = Off 2 = On |
| Economizer Configuration | 72 | 1 | 1 | 2 | 1 = Off 2 = On |
| Schedule Menu | 73 | 2 | 1 | 4 | 1 = Disabled 2 = Enabled 3 = Dis. no. clk. 4 = En. no. clk. |

| Multi-State Value Properties | | | | | |
|------------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Mechanical Cooling Allowed | 79 | 1 | 1 | 2 | 1 = Off 2 = On |
| BO1 Auxiliary Output Configuration | 92 | 1 | 1 | 2 | 1 = NO 2 = NC |
| Fan Control in Heating Mode | 95 | 2 | 1 | 2 | 1 = Off 2 = On |
| UO9 Configuration | 96 | 4 | 1 | 4 | 1 = Analog 2 = Binary 3 = Relay RC 4 = Relay RH |
| UO10 Configuration | 97 | 1 | 1 | 3 | 1 = Analog 2 = Binary 3 = Relay RC |
| UO11 Configuration | 98 | 1 | 1 | 2 | 1 = Analog 2 = Binary |
| UO12 Configuration | 99 | 2 | 1 | 2 | 1 = Analog 2 = Binary |
| French | 101 | 2 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Spanish | 102 | 2 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Chinese | 103 | 2 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Russian | 104 | 2 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Occupancy Source | 110 | 1 | 1 | 4 | 1 = Motion 2 = Schedule 3 = Mot. occ. 4 = Mot. unoc. |
| Mode Button | 111 | 1 | 1 | 2 | 1 = Normal 2 = Off-Auto |
| Control Status | 112 | 1 | 1 | 3 | 1 = Off 2 = Cool 3 = Heat |

| Multi-State Value Properties | | | | | |
|----------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Custom button icon | 114 | 1 | 1 | 17 | 1 = Default Button 2 = No Button 3 = System Mode Heat/Cool 4 = System Mode On/Off 5 = Fan mode 6 = Override Button 7 = Units Button 8 = Help Button 9 = Language Button 10 = Schedule Button 11 = Lighting Button 12 = Blind Button 13 = Lamp Button 14 = Energy Button 15 = Make Room Button 16 = Setting Button 17 = Timer Button |
| Custom button behavior | 115 | 1 | 1 | 12 | 1 = Default function 2 = No function 3 = System mode function 4 = Fan function 5 = Override function 6 = Schedule function 7 = Units function 8 = Help function 9 = Language function 10 = Configuration function 11 = Custom function 12 = Standby function |
| Comfort or economy mode | 116 | 1 | 1 | 2 | 1 = Comfort 2 = Economy |
| Reversing valve operation | 117 | 1 | 1 | 2 | 1 = O 2 = B |
| Compressor - auxiliary interlock | 118 | 1 | 1 | 2 | 1 = Off 2 = On |
| Application | 119 | 1 | 1 | 2 | 1 = Rooftop 2 = Heatpump |
| Arabic | 120 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |

| Multi-State Value Properties | | | | | |
|------------------------------|----------|---------------|---------------------|---------------------|--|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Czech | 122 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Danish | 123 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Dutch | 124 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Finnish | 125 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| German | 126 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Hungarian | 127 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Indonesian | 128 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Italian | 129 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Norwegian | 130 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Polish | 131 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Portuguese | 132 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Slovak | 133 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Swedish | 134 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Turkish | 135 | 1 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Schedule Type | 136 | 1 | 1 | 2 | 1 = 7 days 2 = 5 + 2 days 3 = 5 + 1 + 1 days |
| UI16 Input Type | 138 | 2 | 1 | 3 | 1=Therm. 2=Binary 3=Voltage |
| UI17 Input Type | 139 | 2 | 1 | 3 | 1=Therm. 2=Binary 3=Voltage |
| UI19 Input Type | 140 | 3 | 1 | 3 | 1=Therm. 2=Binary 3=Voltage |
| UI20 Input Type | 141 | 1 | 1 | 3 | 1=Therm. 2=Binary 3=Voltage |
| UI22 Input Type | 142 | 1 | 1 | 3 | 1=Therm. 2=Binary 3=Voltage |
| UI23 Input Type | 143 | 1 | 1 | 3 | 1=Therm. 2=Binary 3=Voltage |
| UI24 Input Type | 144 | 3 | 1 | 3 | 1=Therm. 2=Binary 3=Voltage |

| Multi-State Value Properties | | | | | |
|------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Room Temperature Sensor | 145 | 1 | 1 | 23 | 1=Wired 2=Internal 3=WL IO 4=WL 1 5=WL 2 6=WL 3 7=WL 4 8=WL 5 9=WL 6 10=WL 7 11=WL 8 12=WL 9 13=WL 10 14=WL 11 15=WL 12 16=WL 13 17=WL 14 18=WL 15 19=WL 16 20=WL 17 21=WL 18 22=WL 19 23=WL 20 |
| CO2 Display | 146 | 2 | 1 | 2 | 1 = Disabled 2 = Enabled |
| CO2 Autocalibration | 147 | 2 | 1 | 2 | 1 = Disabled 2 = Enabled |
| Lock Screen | 148 | 1 | 1 | 2 | 1 = No 2 = Yes |
| Relative humidity sensor | 149 | 2 | 1 | 22 | 1=None 2=Internal 3=WL 1 4=WL 2 5=WL 3 6=WL 4 7=WL 5 8=WL 6 9=WL 7 10=WL 8 11=WL 9 12=WL 10 13=WL 11 14=WL 12 15=WL 13 16=WL 14 17=WL 15 18=WL 16 19=WL 17 20=WL 18 21=WL 19 22=WL 20 |

| Multi-State Value Properties | | | | | |
|--------------------------------|----------|---------------|---------------------|---------------------|---|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| CO2 source | 150 | 2 | 1 | 22 | 1=None 2=Local 3=WL 1 4=WL 2 5=WL 3 6=WL 4 7=WL 5 8=WL 6 9=WL 7 10=WL 8 11=WL 9 12=WL 10 13=WL 11 14=WL 12 15=WL 13 16=WL 14 17=WL 15 18=WL 16 19=WL 17 20=WL 18 21=WL 19 22=WL 20 |
| Temperature Alarm Enabled | 151 | 1 | 1 | 2 | 1=Off 2=On |
| ADR Permission | 152 | 1 | 1 | 2 | 1=Off 2=On |
| Japanese | 155 | 1 | 1 | 2 | 1= Disabled 2=Enabled |
| Hebrew | 156 | 1 | 1 | 2 | 1= Disabled 2=Enabled |
| Display the Fan Status icon | 180 | 2 | 1 | 2 | 1=Disabled 2=Enabled |
| Display the System Status icon | 181 | 2 | 1 | 2 | 1=Disabled 2=Enabled |
| Display the Help button | 182 | 2 | 1 | 2 | 1=Disabled 2=Enabled |
| Wireless Device 1 - Function | 210 | 6 | 1 | 9 | 1 = None 2 = Window 3 =Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 2 - Function | 220 | 6 | 1 | 9 | 1 = None 2 = Window 3 =Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |

| Multi-State Value Properties | | | | | |
|------------------------------|----------|---------------|---------------------|---------------------|--|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 3 - Function | 230 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 4 - Function | 240 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 5 - Function | 250 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 6 - Function | 260 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 7 - Function | 270 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 8 - Function | 280 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |

| Multi-State Value Properties | | | | | |
|-------------------------------|----------|---------------|---------------------|---------------------|--|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 9 - Function | 290 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 10 - Function | 300 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 11 - Function | 310 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 12 - Function | 320 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 13 - Function | 330 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 14 - Function | 340 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |

| Multi-State Value Properties | | | | | |
|-------------------------------|----------|---------------|---------------------|---------------------|--|
| Object name | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 15 - Function | 350 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 16 - Function | 360 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 17 - Function | 370 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 18 - Function | 380 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 19 - Function | 390 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |
| Wireless Device 20 - Function | 400 | 6 | 1 | 9 | 1 = None 2 = Window 3 = Door 4 = Motion 5 = Env. data 6 = Remove 7 = Water 8 = Refrig. 9 = Freezer |

NOTE 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: Initialization of LUA4RC scripts. (Do not use priorities 4-16 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.

Program Objects

| Program Object Properties | | |
|---------------------------|----------|--|
| Object name | Instance | Description |
| Lua Program 1 | 1 | Monitors and controls the internal LUA4RC script. Note: Script can be read/written via "File Objects" on page 18. |