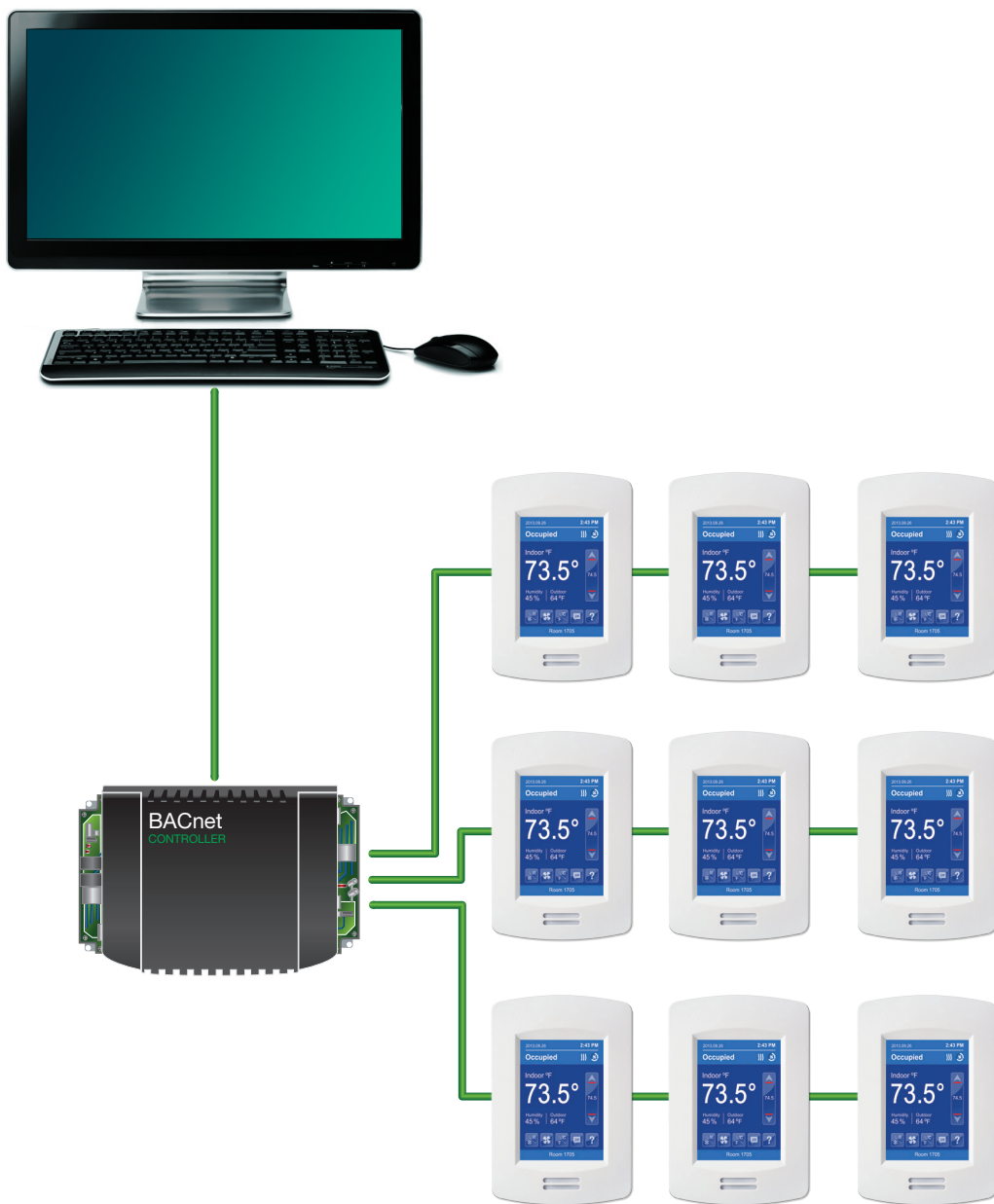


# VT8000 Room Controllers

## VT8650 BACnet Integration Guide

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

Firmware Revision 2.6



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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<br>(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

## 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: 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 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: 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 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<br>Property 32   | Range of dates within which the Schedule object is active. All dates are in range, so always Effective  |
| Read / Write | Exception Schedule<br>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<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 the current value of the schedule (0:unoccupied, 1:occupied).<br>Only writeable when Out Of Service is TRUE .                              |
| Read / Write | Out Of Service<br>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<br>Property 103       | Indicates if Present Value is "reliable"  |
| Read Only    | Status Flags<br>Property 111      | Represents flags that indicate general health of life safety point object   |
| Read / Write | Weekly Schedule<br>Property 123   | 7 elements that describe the sequence of schedule actions for each day of the week  |
| Read Only    | Schedule Default<br>Property 174  | Default value to be used when no other scheduled value is in effect. Always Unoccupied  |

## User Interface Guide References

To simplify cross-referencing between the BACnet Integration Guide and the [User Interface Guide](#), Room Controller screen names are included in parentheses in the Object Properties tables. Where applicable, the HMI Display and Configuration Web Page names are also included.

| Analog Output Properties                        |          |               |                     |                     |             |
|---|----------|---------------|---------------------|---------------------|-------------|
| Object name                                     | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| PI Heating Demand<br>(2/10 Service View Screen) | 21       | 0             | 0                   | 100                 | Percent     |

Room Controller screen name



# 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               |                    |
| 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                |                    |
| 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 (Device 1 Screen)   | 315      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 2 - Temperature (Device 2 Screen)   | 316      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 3 - Temperature (Device 3 Screen)   | 317      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 4 - Temperature (Device 4 Screen)   | 318      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 5 - Temperature (Device 5 Screen)   | 319      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 6 - Temperature (Device 6 Screen)   | 320      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 7 - Temperature (Device 7 Screen)   | 321      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 8 - Temperature (Device 8 Screen)   | 322      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 9 - Temperature (Device 9 Screen)   | 323      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Wireless Device 10 - Temperature (Device 10 Screen) | 324      | -40°F (-40°C) | -40°F (-40°C)       | 185°F (85°C)        | Fahrenheit/Celcius |
| Effective Setpoint (9/10 Service View Screen)       | 329      | 0°F (-18°C)   | 40°F (4°C)          | 100°F (38°C)        | Fahrenheit/Celsius |
| Paired ZigBee Devices (Ecosystem Settings Screen)   | 330      | 0             | 0                   | 20                  |                    |
| Therm. Raw Value                                    | 340      | 0             | -400                | 1220                |                    |
| SH Therm. Raw Value                                 | 341      | 0             | -400                | 1220                |                    |

| Analog Input Properties                             |          |               |                     |                     |                           |
|---|----------|---------------|---------------------|---------------------|---------------------------|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description               |
| Wi-Fi Module Boot Count                             | 343      | 0             | 0                   | 32767               |                           |
| Wireless Device 11 - Temperature (Device 11 Screen) | 355      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 12 - Temperature (Device 12 Screen) | 356      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 13 - Temperature (Device 13 Screen) | 357      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 14 - Temperature (Device 14 Screen) | 358      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 15 - Temperature (Device 15 Screen) | 359      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 16 - Temperature (Device 16 Screen) | 360      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 17 - Temperature (Device 17 Screen) | 361      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 18 - Temperature (Device 18 Screen) | 362      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 19 - Temperature (Device 19 Screen) | 363      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 20 - Temperature (Device 20 Screen) | 364      | -40°F (-40°C) | -40°F(-40°C)        | 185°F(85°C)         | Fahrenheit/Celsius        |
| Wireless Device 1 - Humidity (Device 1 Screen)      | 365      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 2 - Humidity (Device 2 Screen)      | 366      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 3 - Humidity (Device 3 Screen)      | 367      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 4 - Humidity (Device 4 Screen)      | 368      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 5 - Humidity (Device 5 Screen)      | 369      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 6 - Humidity (Device 6 Screen)      | 370      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 7 - Humidity (Device 7 Screen)      | 371      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 8 - Humidity (Device 8 Screen)      | 372      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 9 - Humidity (Device 9 Screen)      | 373      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 10 - Humidity (Device 10 Screen)    | 374      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 11 - Humidity (Device 11 Screen)    | 375      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 12 - Humidity (Device 12 Screen)    | 376      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 13 - Humidity (Device 13 Screen)    | 377      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 14 - Humidity (Device 14 Screen)    | 378      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 15 - Humidity (Device 15 Screen)    | 379      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 16 - Humidity (Device 16 Screen)    | 380      | 0             | 0                   | 100                 | Percent Relative Humidity |

| Analog Input Properties                          |          |               |                     |                     |                           |
|--|----------|---------------|---------------------|---------------------|---------------------------|
| Object name                                      | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description               |
| Wireless Device 17 - Humidity (Device 17 Screen) | 381      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 18 - Humidity (Device 18 Screen) | 382      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 19 - Humidity (Device 19 Screen) | 383      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 20 - Humidity (Device 20 Screen) | 384      | 0             | 0                   | 100                 | Percent Relative Humidity |
| Wireless Device 1 - CO2 (Device 1 Screen)        | 385      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 2 - CO2 (Device 2 Screen)        | 386      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 3 - CO2 (Device 3 Screen)        | 387      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 4 - CO2 (Device 4 Screen)        | 388      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 5 - CO2 (Device 5 Screen)        | 389      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 6 - CO2 (Device 6 Screen)        | 390      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 7 - CO2 (Device 7 Screen)        | 391      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 8 - CO2 (Device 8 Screen)        | 392      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 9 - CO2 (Device 9 Screen)        | 393      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 10 - CO2 (Device 10 Screen)      | 394      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 11 - CO2 (Device 11 Screen)      | 395      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 12 - CO2 (Device 12 Screen)      | 396      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 13 - CO2 (Device 13 Screen)      | 397      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 14 - CO2 (Device 14 Screen)      | 398      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 15 - CO2 (Device 15 Screen)      | 399      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 16 - CO2 (Device 16 Screen)      | 400      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 17 - CO2 (Device 17 Screen)      | 401      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 18 - CO2 (Device 18 Screen)2     | 402      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 19 - CO2 (Device 19 Screen)      | 403      | 0             | 0                   | 5000                | Parts per Million         |
| Wireless Device 20 - CO2 (Device 20 Screen)      | 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<br>(2/10 Service View Screen) | 21       | 0             | 0                   | 100                 | Percent     |
| PI Cooling Demand<br>(2/10 Service View Screen) | 22       | 0             | 0                   | 100                 | Percent     |
| Economizer Demand<br>(2/10 Service View Screen) | 23       | 0             | 0                   | 100                 | Percent     |
| Analog Output Heat Demand                       | 24       | 0             | 0                   | 100                 | Percent     |
| UO11 Analog Output<br>(2/2 Test Outputs Screen) | 123      | 0             | 0                   | 10                  | Voltage     |
| UO12 Analog Output<br>(2/2 Test Outputs Screen) | 124      | 0             | 0                   | 10                  | Voltage     |
| UO9 Analog Output<br>(2/2 Test Outputs Screen)  | 125      | 0             | 0                   | 10                  | Voltage     |
| UO10 Analog Output<br>(2/2 Test Outputs Screen) | 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<br>(1/3 Display Screen)                                  | 2        | 0             | 0                   | 12                  |                           |
| Low Backlight<br>(2/3 Display Screen)                             | 3        | 60            | 0                   | 100                 | Percent                   |
| Night Backlight<br>(2/3 Display Screen)                           | 4        | 5             | 0                   | 100                 | Percent                   |
| Calibrate Room Temperature Sensor<br>(10/11 Configuration Screen) | 7        | 0°F (0.0°C)   | -5°F (-2.5°C)       | 5°F (2.5°C)         | Delta Fahrenheit/Celcius  |
| Calibrate Humidity Sensor<br>(10/11 Configuration Screen)         | 8        | 0             | -15                 | 15                  | Percent Relative Humidity |
| COM Address<br>(2/3 ZigBee Network Screen)                        | 10       | 254           | 0                   | 254                 |                           |
| BACnet Stack Poll Rate<br>(1/2 BACnet Network Screen)             | 16       | 4             | 1                   | 5                   |                           |
| Discharge Low Limit<br>(6/11 Configuration Screen)                | 20       | 45°F (7°C)    | 35°F (2°C)          | 65°F (18°C)         | Fahrenheit/Celcius        |
| Minimum Fresh Air<br>(7/11 Configuration Screen)                  | 21       | 0             | 0                   | 20000               | Cubic Feet Per Minute     |
| Maximum Fresh Air<br>(7/11 Configuration Screen)                  | 22       | 0             | 0                   | 20000               | Cubic Feet Per Minute     |
| Minimum CO2<br>(7/11 Configuration Screen)                        | 23       | 800           | 0                   | 5000                | Parts per Million         |
| Maximum CO2<br>(7/11 Configuration Screen)                        | 24       | 1200          | 0                   | 5000                | Parts per Million         |
| Lua Parameter A (AV25)<br>(3/4 Lua Screen)                        | 25       | 0             | -32768              | 32767               |                           |
| Lua Parameter B (AV26)<br>(3/4 Lua Screen)                        | 26       | 0             | -32768              | 32767               |                           |
| Lua Parameter C (AV27)<br>(3/4 Lua Screen)                        | 27       | 0             | -32768              | 32767               |                           |

| Analog Value Properties   |          |               |                     |                     |                           |
|---|----------|---------------|---------------------|---------------------|---------------------------|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description               |
| Lua Parameter D (AV28)<br>(3/4 Lua Screen)                              | 28       | 0             | -32768              | 32767               |                           |
| Lua Parameter E (AV29)<br>(3/4 Lua Screen)                              | 29       | 0             | -32768              | 32767               |                           |
| Lua Parameter F (AV30)<br>(3/4 Lua Screen)                              | 30       | 0             | -32768              | 32767               |                           |
| Occupied Heat Setpoint<br>(1/2 Setpoints Screen)                        | 39       | 72°F (22°C)   | 40°F (4.5°C)        | 90°F (32°C)         | Fahrenheit/Celcius        |
| Occupied Cool Setpoint<br>(1/2 Setpoints Screen)                        | 40       | 75°F (24°C)   | 54°F (12°C)         | 100°F (38°C)        | Fahrenheit/Celcius        |
| Standby Heat Setpoint<br>(1/2 Setpoints Screen)                         | 41       | 69°F (21°C)   | 40°F (4.5°C)        | 90°F (32°C)         | Fahrenheit/Celcius        |
| Standby Cool Setpoint<br>(1/2 Setpoints Screen)                         | 42       | 78°F (21°C)   | 54°F (12°C)         | 100°F (38°C)        | Fahrenheit/Celcius        |
| Unoccupied Heat Setpoint<br>(1/2 Setpoints Screen)                      | 43       | 62°F (17°C)   | 40°F (4.5°C)        | 90°F (32°C)         | Fahrenheit/Celcius        |
| Unoccupied Cool Setpoint<br>(1/2 Setpoints Screen)                      | 44       | 80°F (27°C)   | 54°F (12°C)         | 100°F (38°C)        | Fahrenheit/Celcius        |
| Default Heating Setpoint<br>(2/2 Setpoints Screen)                      | 45       | 72°F (22°C)   | 65°F (18°C)         | 80°F (27°C)         | Fahrenheit/Celcius        |
| Standby Temperature Differential<br>(2/11 Configuration Screen)         | 46       | 4°F (2.0°C)   | 1°F (0.5°C)         | 5°F (2.5°C)         | Delta Fahrenheit/Celcius  |
| Main Password<br>(9/11 Configuration Screen)                            | 56       | 0             | 0                   | 9999                |                           |
| User Password<br>(9/11 Configuration Screen)                            | 57       | 0             | 0                   | 9999                |                           |
| Heating Setpoint Limit<br>(2/2 Setpoints Screen)                        | 58       | 90°F (32°C)   | 40°F (4.5°C)        | 90°F (32°C)         | Fahrenheit/Celcius        |
| Cooling Setpoint Limit<br>(2/2 Setpoints Screen)                        | 59       | 54°F (12°C)   | 54°F (12°C)         | 100°F (38°C)        | Fahrenheit/Celcius        |
| Temporary Occupancy Time<br>(3/11 Configuration Screen)                 | 62       | 2             | 0                   | 24                  | Hours                     |
| Minimum Deadband<br>(2/2 Setpoints Screen)                              | 63       | 3°F (1.5°C)   | 2°F (1.0°C)         | 5°F (2.5°C)         | Delta Fahrenheit/Celcius  |
| Proportional Band<br>(5/11 Configuration Screen)                        | 65       | 3             | 3                   | 10                  |                           |
| Standby Time<br>(3/11 Configuration Screen)                             | 67       | 0.5           | 0.5                 | 24                  | Hours                     |
| Unoccupied Time<br>(3/11 Configuration Screen)                          | 68       | 0             | 0                   | 24                  | Hours                     |
| Dehumidification Setpoint<br>(2/2 Setpoints Screen)                     | 71       | 50            | 30                  | 95                  | Percent Relative Humidity |
| Dehumidification Hysteresis<br>(3/11 Configuration Screen)              | 72       | 5             | 2                   | 20                  | Percent Relative Humidity |
| Calibrate Outside Temperature<br>Sensor<br>(10/11 Configuration Screen) | 74       | 0°F (0°C)     | -5°F (-2.5°C)       | 5°F (2.5°C)         | Delta Fahrenheit/Celcius  |
| Number of Cooling Stages<br>(5/11 Configuration Screen)                 | 75       | 2             | 1                   | 2                   |                           |
| Power-up Delay<br>(2/11 Configuration Screen)                           | 76       | 10            | 10                  | 120                 | Seconds                   |
| Economizer Minimum Position<br>(7/11 Configuration Screen)              | 78       | 0             | 0                   | 100                 | Percent                   |

| Analog Value Properties  |          |               |                     |                     |                           |
|--|----------|---------------|---------------------|---------------------|---------------------------|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description               |
| Economizer Maximum Position<br>(7/11 Configuration Screen)                     | 81       | 100           | 0                   | 100                 | Percent                   |
| High balance point<br>(8/11 Configuration Screen)                              | 82       | 90°F (32°C)   | 34°F (1°C)          | 90°F (32°C)         | Fahrenheit/Celcius        |
| Low balance point<br>(8/11 Configuration Screen)                               | 83       | -12°F (-24°C) | -40°F (-40°C)       | 30°F (-1°C)         | Fahrenheit/Celcius        |
| Heating CPH<br>(4/11 Configuration Screen)                                     | 84       | 4             | 3                   | 8                   | Cycles/Hour               |
| Cooling CPH<br>(4/11 Configuration Screen)                                     | 85       | 4             | 3                   | 4                   | Cycles/Hour               |
| Anti Short Cycle Time<br>(4/11 Configuration Screen)                           | 86       | 2             | 0                   | 5                   | Minutes                   |
| Number of Heating Stages<br>(5/11 Configuration Screen)                        | 87       | 2             | 0                   | 2                   |                           |
| Heating Demand Limit<br>(2/10 Service View Screen)                             | 88       | 0             | 0                   | 100                 | Percent                   |
| Cooling Demand Limit<br>(2/10 Service View Screen)                             | 89       | 0             | 0                   | 100                 | Percent                   |
| Heating Lockout from Outside Air<br>Temperature<br>(6/11 Configuration Screen) | 91       | 120°F (49°C)  | -15°F (-26°C)       | 120°F (49°C)        | Fahrenheit/Celcius        |
| Keyboard Value   | 92       | 0             | 0                   | 35                  |                           |
| Cooling Lockout<br>(6/11 Configuration Screen)                                 | 93       | -40°F (-40°C) | -40°F (-40°C)       | 95°F (35°C)         | Fahrenheit/Celcius        |
| Supply Air Setpoint<br>(2/2 Setpoints Screen)                                  | 94       | 55°F (13°C)   | 50°F (10°C)         | 90°F (32°C)         | Fahrenheit/Celcius        |
| Changeover Setpoint<br>(5/11 Configuration Screen)                             | 95       | 55°F (13°C)   | 14°F (10°C)         | 70°F (21°C)         | Fahrenheit/Celcius        |
| Fresh Air Range Upper Limit<br>(6/11 Configuration Screen)                     | 96       | 0             | 0                   | 20,000              | Cubic Feet Per Minute     |
| Minimum Supply Heat<br>(4/11 Configuration Screen)                             | 97       | 64°F (18°C)   | 50°F (10°C)         | 72°F (22°C)         | Fahrenheit/Celcius        |
| Supply Heat Lockout<br>(6/11 Configuration Screen)                             | 98       | 32°F (0°C)    | -15°F (-26°C)       | 120°F (49°C)        | Fahrenheit/Celcius        |
| Discharge High Limit<br>(6/11 Configuration Screen)                            | 99       | 120°F (49°C)  | 70°F (21°C)         | 150°F (65.5°C)      | Fahrenheit/Celcius        |
| Room Temperature<br>(1/10 Service View Screen)                                 | 100      | -40°F (-40°C) | -40°F (-40°C)       | 122°F (50°C)        | Fahrenheit/Celcius        |
| Outdoor Temperature<br>(1/10 Service View Screen)                              | 101      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius        |
| UI22 Supply Temperature<br>(1/10 Service View Screen)                          | 102      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius        |
| Room Humidity<br>(5/10 Service View Screen)                                    | 103      | 0             | 0                   | 100                 | Percent Relative Humidity |
| UI19 Temperature   | 104      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius        |
| UI20 Remote Temperature<br>(1/10 Service View Screen)                          | 105      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius        |
| CO2 Level<br>(8/10 Service View Screen)  | 106      | 0             | 0                   | 5000                | Parts per Million         |
| Airflow Level<br>(3/10 Service View Screen)                                    | 107      | 0             | 0                   | 20,000              | Cubic Feet Per Minute     |

| Analog Value Properties                                       |          |               |                     |                     |                          |
|---|----------|---------------|---------------------|---------------------|--------------------------|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description              |
| UI19 Analog Input<br>(3/10 Service View Screen)               | 108      | 0             | 0                   | 10                  | Voltage                  |
| UI24 Temperature  | 109      | -40°F (-40°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      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius       |
| UI17 Temperature  | 118      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius       |
| UI20 Temperature  | 120      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius       |
| UI22 Temperature  | 121      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius       |
| UI23 Temperature  | 122      | -40°F (-40°C) | -40°F (-40°C)       | 180°F (82°C)        | Fahrenheit/Celcius       |
| Mixed Air Temperature<br>(1/10 Service View Screen)           | 125      | -40°F (-40°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<br>(2/2 Temperature Screen) | 209      | 40°F (4°C)    | 32°F (0°C)          | 50°F (10°C)         | Fahrenheit/Celcius       |
| Temperature Alarm Hysteresis<br>(1/2 Temperature Screen)      | 210      | 2°F (1°C)     | 0°F (0°C)           | 10°F (5.5°C)        | Delta Fahrenheit/Celcius |
| Load Shedding Offset<br>(ADR Screen)                          | 211      | 4°F (2°C)     | 4°F (2°C)           | 10°F (5.5°C)        | Delta Fahrenheit/Celcius |
| Lua Parameter G (AV225)<br>(4/4 Lua Screen)                   | 225      | 0             | -32768              | 32767               |                          |
| Lua Parameter H (AV226)<br>(4/4 Lua Screen)                   | 226      | 0             | -32768              | 32767               |                          |
| Lua Parameter I (AV227)<br>(4/4 Lua Screen)                   | 227      | 0             | -32768              | 32767               |                          |
| Lua Parameter J (AV228)<br>(4/4 Lua Screen)                   | 228      | 0             | -32768              | 32767               |                          |

| Analog Value Properties  |          |               |                     |                     |                    |
|--|----------|---------------|---------------------|---------------------|--------------------|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description        |
| Lua Parameter K (AV229)<br>(4/4 Lua Screen)                          | 229      | 0             | -32768              | 32767               |                    |
| Lua Parameter L (AV230)<br>(4/4 Lua Screen)                          | 230      | 0             | -32768              | 32767               |                    |
| Standby Screen Delay   | 270      | 150           | 5                   | 300                 | Seconds            |
| Ambient High Temperature Threshold<br>(2/2 Temperature Screen)       | 275      | 86°F (30°C)   | 32°F (0°C)          | 122°F (50°C)        | Fahrenheit/Celcius |
| Refrigeration High Temperature Threshold<br>(2/2 Temperature Screen) | 276      | 40°F (4°C)    | 32°F (0°C)          | 60°F (16°C)         | Fahrenheit/Celcius |
| Refrigeration Low Temperature Threshold<br>(2/2 Temperature Screen)  | 277      | 32°F (0°C)    | 32°F (0°C)          | 50°F (10°C)         | Fahrenheit/Celcius |
| Freezer High Temperature Threshold<br>(2/2 Temperature Screen)       | 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<br>(3/10 Service View Screen) | 29       | 0             | 0                   | 1                   | 0=Activated<br>1=Not Activated |
| UI17 Binary Input<br>(3/10 Service View Screen) | 30       | 0             | 0                   | 1                   | 0=Activated<br>1=Not Activated |
| UI19 Binary Input                               | 91       | 0             | 0                   | 1                   | 0=Activated<br>1=Not Activated |
| UI20 Binary Input                               | 94       | 0             | 0                   | 1                   | 0=Activated<br>1=Not Activated |
| UI22 Binary Input                               | 95       | 0             | 0                   | 1                   | 0=Activated<br>1=Not Activated |
| UI23 Binary Input                               | 96       | 0             | 0                   | 1                   | 0=Activated<br>1=Not Activated |
| UI24 Binary Input                               | 97       | 0             | 0                   | 1                   | 0=Activated<br>1=Not Activated |

### Binary Output Properties

| Binary Output Properties                  |          |               |                     |                     |               |
|---|----------|---------------|---------------------|---------------------|---------------|
| Object name                               | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| G Fan Status<br>(1/2 Test Outputs Screen) | 25       | 0             | 0                   | 1                   | 0=Off<br>1=On |
| Y1 Status<br>(1/2 Test Outputs Screen)    | 26       | 0             | 0                   | 1                   | 0=Off<br>1=On |
| Y2 Status<br>(1/2 Test Outputs Screen)    | 27       | 0             | 0                   | 1                   | 0=Off<br>1=On |
| W1 Status<br>(1/2 Test Outputs Screen)    | 28       | 0             | 0                   | 1                   | 0=Off<br>1=On |
| W2/OB Status<br>(1/2 Test Outputs Screen) | 29       | 0             | 0                   | 1                   | 0=Off<br>1=On |



| Binary Output Properties                                 |          |               |                     |                     |               |
|--|----------|---------------|---------------------|---------------------|---------------|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| UO10 Binary Output<br>(2/2 Test Outputs Screen)          | 94       | 0             | 0                   | 1                   | 0=Off<br>1=On |
| BO1 Auxiliary Binary Output<br>(1/2 Test Outputs Screen) | 98       | 0             | 0                   | 1                   | 0=Off<br>1=On |
| UO11 Binary Output<br>(2/2 Test Outputs Screen)          | 101      | 0             | 0                   | 1                   | 0=Off<br>1=On |
| UO12 Binary Output<br>(2/2 Test Outputs Screen)          | 102      | 0             | 0                   | 1                   | 0=Off<br>1=On |

## Binary Value Properties

| Binary Value Properties                               |          |               |                     |                     |                         |
|---|----------|---------------|---------------------|---------------------|-------------------------|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description             |
| Door Contact Status<br>(Device X Screen)              | 1        | 0             | 0                   | 1                   | 0=Closed<br>1=Open      |
| Door Contact Installed<br>(Device Groups Screen)      | 2        | 0             | 0                   | 1                   | 0=No<br>1=Yes           |
| Window Contact Status<br>(Device X Screen)            | 3        | 0             | 0                   | 1                   | 0=Closed<br>1=Open      |
| Window Contact Installed<br>(Device Groups Screen)    | 4        | 0             | 0                   | 1                   | 0=No<br>1=Yes           |
| Low Battery Alarm<br>(Alarms Screen)                  | 5        | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Force High Backlight                                  | 6        | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Display Long Screen Message                           | 7        | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Clock Alarm   | 8        | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Exception Status                                      | 10       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| PIR Local Motion<br>(5/10 Service View Screen)        | 32       | 0             | 0                   | 1                   | 0=No motion<br>1=Motion |
| Window Alarm<br>(4/10 Service View Screen)            | 35       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Filter Alarm<br>(4/10 Service View Screen)            | 36       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Service Alarm<br>(4/10 Service View Screen)           | 37       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Dehumidification Status<br>(5/10 Service View Screen) | 38       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Fan Lock Alarm<br>(4/10 Service View Screen)          | 39       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Smart Recovery Status<br>(5/10 Service View Screen)   | 40       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| CO2 Alarm<br>(4/10 Service View Screen)               | 41       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Low Fresh Air Alarm<br>(4/10 Service View Screen)     | 42       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Frost Protection Alarm<br>(5/10 Service View Screen)  | 43       | 0             | 0                   | 1                   | 0=Off<br>1=On           |

| Binary Value Properties                                   |          |               |                     |                     |                         |
|---|----------|---------------|---------------------|---------------------|-------------------------|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description             |
| Water Leak<br>(Alarms Screen)                             | 44       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Water Leak Sensor Installed<br>(Device Groups Screen)     | 45       | 0             | 0                   | 1                   | 0=No<br>1=Yes           |
| Water leak sensor status<br>(Device X Screen)             | 46       | 0             | 0                   | 1                   | 0=Normal<br>1=Leak      |
| Low Temperature<br>(Alarms Screen)                        | 47       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Load Shedding Demand<br>(ADR Screen)                      | 48       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Load Shedding Status<br>(ADR Screen)                      | 49       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| Load Shedding Override<br>(ADR Screen)                    | 50       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| High Temperature<br>(Alarms Screen)                       | 53       | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| ZigBee PIR Sensor Installed<br>(3/10 Service View Screen) | 200      | 0             | 0                   | 1                   | 0=Off<br>1=On           |
| ZigBee Sensor Motion<br>(3/10 Service View Screen)        | 201      | 0             | 0                   | 1                   | 0=No motion<br>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                   | 26                  | Characters  |
| Long Screen Message Text  | 2        | 0             | 0                   | 480                 | Characters  |
| External Memory Revision  | 3        | 0             | 0                   | N/A                 |             |
| Wi-Fi Device Name<br>(1/5 Wi-Fi Screen)<br>(Admin - Config Web Page)                  | 4        | 0             | 0                   | N/A                 |             |
| Wi-Fi Firmware Version<br>(1/5 Wi-Fi Screen)  | 5        | 0             | 0                   | N/A                 |             |
| MAC Address<br>(1/5 Wi-Fi Screen)   | 6        | 0             | 0                   | N/A                 |             |
| Wi-Fi Network SSID<br>(3/5 Wi-Fi Network Screen)<br>(Network - Config Web Page)       | 7        | 0             | 0                   | N/A                 |             |
| Wi-Fi Network IP Address<br>(3/5 Wi-Fi Network Screen)<br>(Network - Config Web Page) | 8        | 0             | 0                   | N/A                 |             |
| ZigBee Firmware Revision<br>(2/3 ZigBee Network Screen)                               | 9        | 0             | 0                   | N/A                 |             |
| Zigbee IEEE Address<br>(2/3 ZigBee Network Screen)                                    | 10       | 0             | 0                   | N/A                 |             |
| Wireless Device 1 - Address<br>(Device 1 Screen)                                      | 11       | 0             | 0                   | N/A                 |             |

| CSV Properties                                  |          |               |                     |                     |             |
|---|----------|---------------|---------------------|---------------------|-------------|
| Object name                                     | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description |
| Wireless Device 2 - Address (Device 2 Screen)   | 12       | 0             | 0                   | N/A                 |             |
| Wireless Device 3 - Address (Device 3 Screen)   | 13       | 0             | 0                   | N/A                 |             |
| Wireless Device 4 - Address (Device 4 Screen)   | 14       | 0             | 0                   | N/A                 |             |
| Wireless Device 5 - Address (Device 5 Screen)   | 15       | 0             | 0                   | N/A                 |             |
| Wireless Device 6 - Address (Device 6 Screen)   | 16       | 0             | 0                   | N/A                 |             |
| Wireless Device 7 - Address (Device 7 Screen)   | 17       | 0             | 0                   | N/A                 |             |
| Wireless Device 8 - Address (Device 8 Screen)   | 18       | 0             | 0                   | N/A                 |             |
| Wireless Device 9 - Address (Device 9 Screen)   | 19       | 0             | 0                   | N/A                 |             |
| Wireless Device 10 - Address (Device 10 Screen) | 20       | 0             | 0                   | N/A                 |             |
| Wireless Device 11 - Address (Device 11 Screen) | 21       | 0             | 0                   | N/A                 |             |
| Wireless Device 12 - Address (Device 12 Screen) | 22       | 0             | 0                   | N/A                 |             |
| Wireless Device 13 - Address (Device 13 Screen) | 23       | 0             | 0                   | N/A                 |             |
| Wireless Device 14 - Address (Device 14 Screen) | 24       | 0             | 0                   | N/A                 |             |
| Wireless Device 15 - Address (Device 15 Screen) | 25       | 0             | 0                   | N/A                 |             |
| Wireless Device 16 - Address (Device 16 Screen) | 26       | 0             | 0                   | N/A                 |             |
| Wireless Device 17 - Address (Device 17 Screen) | 27       | 0             | 0                   | N/A                 |             |
| Wireless Device 18 - Address (Device 18 Screen) | 28       | 0             | 0                   | N/A                 |             |
| Wireless Device 19 - Address (Device 19 Screen) | 29       | 0             | 0                   | N/A                 |             |
| Wireless Device 20 - Address (Device 20 Screen) | 30       | 0             | 0                   | N/A                 |             |

## File Objects

| File Object Properties |          |  |
|------------------------|----------|--|
| Object name            | Instance | Description  |
| Custom Lua File        | 1        | <p>Read/write access to the LUA4RC script.<br/>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<br>(1/3 ZigBee Network)<br>(Ecosystem Settings Screen) | 2        | 1             | 1                   | 5                   | 1=Not det.<br>2=Pwr on<br>3=No NWK<br>4=Joined<br>5=Online                                |
| Effective Occupancy<br>(2/10 Service View Screen)                            | 33       | 1             | 1                   | 4                   | 1=Occupied<br>2=Unoccupied<br>3=Override<br>4=Standby                                     |
| Wireless Device 1 - Sensor Type<br>(Device 1 Screen)                         | 180      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 2 - Sensor Type<br>(Device 2 Screen)                         | 181      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 3 - Sensor Type<br>(Device 3 Screen)                         | 182      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 4 - Sensor Type<br>(Device 4 Screen)                         | 183      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 5 - Sensor Type<br>(Device 5 Screen)                         | 184      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |

| Multi-State Input Properties                           |          |               |                     |                     |   |
|--|----------|---------------|---------------------|---------------------|---|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Wireless Device 6 - Sensor Type<br>(Device 6 Screen)   | 185      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 7 - Sensor Type<br>(Device 7 Screen)   | 186      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 8 - Sensor Type<br>(Device 8 Screen)   | 187      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 9 - Sensor Type<br>(Device 9 Screen)   | 188      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 10 - Sensor Type<br>(Device 10 Screen) | 189      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 11 - Sensor Type<br>(Device 11 Screen) | 190      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 12 - Sensor Type<br>(Device 12 Screen) | 191      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |

| Multi-State Input Properties                           |          |               |                     |                     |   |
|--|----------|---------------|---------------------|---------------------|---|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Wireless Device 13 - Sensor Type<br>(Device 13 Screen) | 192      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 14 - Sensor Type<br>(Device 14 Screen) | 193      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 15 - Sensor Type<br>(Device 15 Screen) | 194      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 16 - Sensor Type<br>(Device 16 Screen) | 195      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 17 - Sensor Type<br>(Device 17 Screen) | 196      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 18 - Sensor Type<br>(Device 18 Screen) | 197      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 19 - Sensor Type<br>(Device 19 Screen) | 198      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |

| Multi-State Input Properties                                     |          |               |                     |                     |   |
|--|----------|---------------|---------------------|---------------------|---|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Wireless Device 20 - Sensor Type<br>(Device 20 Screen)           | 199      | 1             | 1                   | 8                   | 1=None<br>2=Unknown<br>3=Motion<br>4=Contact<br>5=Water<br>6=Temp.<br>7=Temp./RH<br>8=CO2 |
| Wireless Device 1 - Status<br>(Device 1 Screen)                  | 210      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak           |
| Wireless Device 1 - Battery<br>(Device 1 Screen)                 | 211      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 1 - Communication<br>Status<br>(Device 1 Screen) | 212      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline  |
| Wireless Device 2 - Status<br>(Device 2 Screen)                  | 220      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak           |
| Wireless Device 2 - Battery<br>(Device 2 Screen)                 | 221      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 2 - Communication<br>Status<br>(Device 2 Screen) | 222      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline  |
| Wireless Device 3 - Status<br>(Device 3 Screen)                  | 230      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak           |
| Wireless Device 3 - Battery<br>(Device 3 Screen)                 | 231      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 3 - Communication<br>Status<br>(Device 3 Screen) | 232      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline  |
| Wireless Device 4 - Status<br>(Device 4 Screen)                  | 240      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak           |

| Multi-State Input Properties                                  |          |               |                     |                     |   |
|---|----------|---------------|---------------------|---------------------|---|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Wireless Device 4 - Battery<br>(Device 4 Screen)              | 241      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 4 - Communication Status<br>(Device 4 Screen) | 242      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 5 - Status<br>(Device 5 Screen)               | 250      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 5 - Battery<br>(Device 5 Screen)              | 251      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 5 - Communication Status<br>(Device 5 Screen) | 252      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 6 - Status<br>(Device 6 Screen)               | 260      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 6 - Battery<br>(Device 6 Screen)              | 261      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 6 - Communication Status<br>(Device 6 Screen) | 262      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 7 - Status<br>(Device 7 Screen)               | 270      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 7 - Battery<br>(Device 7 Screen)              | 271      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 7 - Communication Status<br>(Device 7 Screen) | 272      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 8 - Status<br>(Device 8 Screen)               | 280      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |



| Multi-State Input Properties                                    |          |               |                     |                     |   |
|---|----------|---------------|---------------------|---------------------|---|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Wireless Device 8 - Battery<br>(Device 8 Screen)                | 281      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 8 - Communication Status<br>(Device 8 Screen)   | 282      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline  |
| Wireless Device 9 - Status<br>(Device 9 Screen)                 | 290      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak   |
| Wireless Device 9 - Battery<br>(Device 9 Screen)                | 291      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 9 - Communication Status<br>(Device 9 Screen)   | 292      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline  |
| Wireless Device 10 - Status<br>(Device 10 Screen)               | 300      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak   |
| Wireless Device 10 - Battery<br>(Device 10 Screen)              | 301      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 10 - Communication Status<br>(Device 10 Screen) | 302      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline  |
| Effective Temperature Sensor<br>(3/11 Configuration Screen)     | 309      | 1             | 1                   | 23                  | 1=Wired<br>2=Internal<br>3=WL IO<br>4=WL 1<br>5=WL 2<br>6=WL 3<br>7=WL 4<br>8=WL 5<br>9=WL 6<br>10=WL 7<br>11=WL 8<br>12=WL 9<br>13=WL 10<br>14=WL 11<br>15=WL 12<br>16=WL 13<br>17=WL 14<br>18=WL 15<br>19=WL 16<br>20=WL 17<br>21=WL 18<br>22=WL 19<br>23=WL 20 |

| Multi-State Input Properties  |          |               |                     |                     |  |
|---|----------|---------------|---------------------|---------------------|--|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description  |
| Wireless Device 11 - Status<br>(Device 11 Screen)                                     | 310      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak  |
| Wireless Device 11 - Battery<br>(Device 11 Screen)                                    | 311      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low  |
| Wireless Device 11 - Communication<br>Status<br>(Device 11 Screen)                    | 312      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline   |
| Effective Relative Humidity Sensor<br>(10/11 Configuration Screen)                    | 313      | 1             | 1                   | 22                  | 1=None<br>2=Internal<br>3=WL 1<br>4=WL 2<br>5=WL 3<br>6=WL 4<br>7=WL 5<br>8=WL 6<br>9=WL 7<br>10=WL 8<br>11=WL 9<br>12=WL 10<br>13=WL 11<br>14=WL 12<br>15=WL 13<br>16=WL 14<br>17=WL 15<br>18=WL 16<br>19=WL 17<br>20=WL 18<br>21=WL 19<br>22=WL 20 |
| Effective System Mode<br>(9/10 Service View Screen)                                   | 314      | 1             | 1                   | 2                   | 1=Cool<br>2=Heat   |
| Wi-Fi Module Status<br>(1/5 Wi-Fi Screen)   | 315      | 1             | 1                   | 7                   | 1=Offline<br>2=Initializing<br>3=Ready<br>4=Booting<br>5=Resetting<br>6=Fail<br>7=Testing  |
| Wi-Fi Status<br>(3/5 Wi-Fi Network Screen)  | 316      | 1             | 1                   | 7                   | 1=Idle<br>2=Associate<br>3=Config.<br>4=Ready<br>5=Online<br>6=Disconn.<br>7=Failure   |
| BACnet IP Status<br>(BACnet/IP - Config Web Page)                                     | 317      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled  |
| SMTP Server Status<br>(3/5 Wi-Fi Network Screen)<br>(Notifications - Config Web Page) | 318      | 1             | 1                   | 4                   | 1=Unkown<br>2=Disabled<br>3=Offline<br>4=Online  |

| Multi-State Input Properties                                    |          |               |                     |                     |  |
|---|----------|---------------|---------------------|---------------------|--|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description  |
| Facility Expert Enabled<br>(4/5 Wi-Fi: Facility Expert Screen)  | 319      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled  |
| Wireless Device 12 - Status<br>(Device 12 Screen)               | 320      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak  |
| Wireless Device 12 - Battery<br>(Device 12 Screen)              | 321      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low  |
| Wireless Device 12 - Communication Status<br>(Device 12 Screen) | 322      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline   |
| Facility Expert Status<br>(4/5 Wi-Fi: Facility Expert Screen)   | 323      | 1             | 1                   | 6                   | 1=Disabled<br>2=Offline<br>3=Connect.<br>4=Online<br>5=Failure<br>6=Unknown  |
| CO2 Effective Source<br>(8/10 Service View Screen)              | 324      | 1             | 1                   | 24                  | 1=None<br>2=Internal<br>3=Error<br>4=Wired<br>5=WL 1<br>6=WL 2<br>7=WL 3<br>8=WL 4<br>9=WL 5<br>10=WL 6<br>11=WL 7<br>12=WL 8<br>13=WL 9<br>14=WL 10<br>15=WL 11<br>16=WL 12<br>17=WL 13<br>18=WL 14<br>19=WL 15<br>20=WL 16<br>21=WL 17<br>22=WL 18<br>23=WL 19<br>24=WL 20 |
| Time source<br>(2/2 Clock Screen)                               | 325      | 1             | 1                   | 5                   | 1=None<br>2=Local<br>3=BACnet<br>4=NTP<br>5=Cloud  |
| Fan Speed Status<br>(HMI Display)                               | 326      | 1             | 1                   | 4                   | 1=Off<br>2=Low<br>3=Medium<br>4=High   |

| Multi-State Input Properties                                       |          |               |                     |                     |   |
|--|----------|---------------|---------------------|---------------------|---|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Wireless Device 13 - Status<br>(Device 13 Screen)                  | 330      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 13 - Battery<br>(Device 13 Screen)                 | 331      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 13 - Communication<br>Status<br>(Device 13 Screen) | 332      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 14 - Status<br>(Device 14 Screen)                  | 340      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 14 - Battery<br>(Device 14 Screen)                 | 341      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 14 - Communication<br>Status<br>(Device 14 Screen) | 342      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 15 - Status<br>(Device 15 Screen)                  | 350      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 15 - Battery<br>(Device 15 Screen)                 | 351      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 15 - Communication<br>Status<br>(Device 15 Screen) | 352      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 16 - Status<br>(Device 16 Screen)                  | 360      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 16 - Battery<br>(Device 16 Screen)                 | 361      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 16 - Communication<br>Status<br>(Device 16 Screen) | 362      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |

| Multi-State Input Properties                                       |          |               |                     |                     |   |
|--|----------|---------------|---------------------|---------------------|---|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Wireless Device 17 - Status<br>(Device 17 Screen)                  | 370      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 17 - Battery<br>(Device 17 Screen)                 | 371      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 17 - Communication<br>Status<br>(Device 17 Screen) | 372      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 18 - Status<br>(Device 18 Screen)                  | 380      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 18 - Battery<br>(Device 18 Screen)                 | 381      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 18 - Communication<br>Status<br>(Device 18 Screen) | 382      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 19 - Status<br>(Device 19 Screen)                  | 390      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 19 - Battery<br>(Device 19 Screen)                 | 391      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 19 - Communication<br>Status<br>(Device 19 Screen) | 392      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>4=Offline                              |
| Wireless Device 20 - Status<br>(Device 20 Screen)                  | 400      | 1             | 1                   | 7                   | 1=None<br>2=Closed<br>3=Opened<br>4=No motion<br>5=Motion<br>6=Normal<br>7=Leak |
| Wireless Device 20 - Battery<br>(Device 20 Screen)                 | 401      | 1             | 1                   | 3                   | 1=None<br>2=Normal<br>3=Low   |
| Wireless Device 20 - Communication<br>Status<br>(Device 20 Screen) | 402      | 1             | 1                   | 4                   | 1=Not paired<br>2=Online<br>3=Invalid<br>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<br>2=Green<br>3=Blue<br>4=Grey<br>5=Dark grey<br>6=Pink<br>7=Purple<br>8=Red<br>9=Orange<br>10=Black<br>11=Default  |
| HMI Color<br>(1/3 Display Screen)               | 2        | 1             | 1                   | 10                  | 1=White<br>2=Green<br>3=Blue<br>4=Grey<br>5=Dark grey<br>6=Pink<br>7=Purple<br>8=Red<br>9=Orange<br>10=Black  |
| Main Display<br>(1/3 Display Screen)            | 3        | 1             | 1                   | 2                   | 1=Temperature<br>2=Setpoint   |
| Display Language<br>(2/3 Display Screen)        | 4        | 1             | 1                   | 23                  | 1=English<br>2=French<br>3=Spanish<br>4=Chinese<br>5=Russian<br>6=Arabic<br>7=Bulgarian<br>8=Czech<br>9=Danish<br>10=Dutch<br>11=Finnish<br>12=German<br>13=Hungarian<br>14=Indonesian<br>15=Italian<br>16=Norwegian<br>17=Polish<br>18=Portuguese<br>19=Slovak<br>20=Swedish<br>21=Turkish<br>22=Japanese<br>23=Hebrew |
| Time Format<br>(1/2 Clock Screen)               | 5        | 1             | 1                   | 2                   | 1=AM-PM<br>2=24 Hours   |
| Network Units<br>(1/2 BACnet Network Screen)    | 6        | 1             | 1                   | 2                   | 1=SI<br>2=Imperial  |
| Network Language<br>(1/2 BACnet Network Screen) | 7        | 1             | 1                   | 3                   | 1=English<br>2=French<br>3=Spanish  |

| Multi-State Value Properties                              |          |               |                     |                     |   |
|---|----------|---------------|---------------------|---------------------|---|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| BACnet Baud Rate<br>(1/2 BACnet Network Screen)           | 8        | 7             | 1                   | 7                   | 1=9600<br>2=19200<br>3=38400<br>4=57600<br>5=76800<br>6=115200<br>7=Auto    |
| Occupancy Command<br>(Options Screen)                     | 10       | 2             | 1                   | 3                   | 1=Loc. occ<br>2=Occupied<br>3=Unocc.  |
| Standby Mode Configuration<br>(2/11 Configuration Screen) | 11       | 1             | 1                   | 2                   | 1=Absolute<br>2=Offset  |
| Fan Delay<br>(2/11 Configuration Screen)                  | 12       | 2             | 1                   | 2                   | 1=Off<br>2=On   |
| Dehumidification Lockout<br>(3/11 Configuration Screen)   | 13       | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| System Mode<br>(HMI Display)                              | 16       | 4             | 1                   | 4                   | 1=Off<br>2=Auto<br>3=Cool<br>4=Heat   |
| Fan Mode<br>(HMI Display)                                 | 17       | 2             | 1                   | 3                   | 1=On<br>2=Auto<br>3=Smart   |
| Use Standby Screen<br>(1/3 Display Screen)                | 32       | 1             | 1                   | 4                   | 1=No<br>2=Yes<br>3=Occ. only<br>4=Screen sav                                |
| UI16 Configuration<br>(5/11 Configuration Screen)         | 46       | 1             | 1                   | 6                   | 1=None<br>2=Rem NSB<br>3=Motion NO<br>4=Motion NC<br>5=Window<br>6=Fan lock |
| UI17 Configuration<br>(5/11 Configuration Screen)         | 47       | 1             | 1                   | 5                   | 1=None<br>2=Door dry<br>3=Override<br>4=Filter<br>5=Service                 |
| UI19 Configuration<br>(5/11 Configuration Screen)         | 49       | 1             | 1                   | 2                   | 1=None<br>2=CO2   |
| Temperature Scale<br>(2/3 Display Screen)                 | 51       | 1             | 1                   | 2                   | 1=°C<br>2=°F  |
| Frost Protection<br>(4/11 Configuration Screen)           | 55       | 1             | 1                   | 2                   | 1=Off<br>2=On   |
| Setpoint Function<br>(1/11 Configuration Screen)          | 58       | 2             | 1                   | 2                   | 1=Dual SP<br>2=Attach SP  |
| Room Humidity Display<br>(2/3 Display Screen)             | 70       | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Enable Smart Recovery<br>(9/11 Configuration Screen)      | 71       | 1             | 1                   | 2                   | 1=Off<br>2=On   |
| Economizer Configuration<br>(5/11 Configuration Screen)   | 72       | 1             | 1                   | 2                   | 1=Off<br>2=On   |
| Schedule Menu<br>(9/11 Configuration Screen)              | 73       | 2             | 1                   | 4                   | 1=Disabled<br>2=Enabled<br>3=Dis. no. clk.<br>4=En. no. clk.                |

| Multi-State Value Properties                                      |          |               |                     |                     |   |
|---|----------|---------------|---------------------|---------------------|---|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Mechanical Cooling Allowed<br>(5/11 Configuration Screen)         | 79       | 1             | 1                   | 2                   | 1=Off<br>2=On   |
| BO1 Auxiliary Output Configuration<br>(4/11 Configuration Screen) | 92       | 1             | 1                   | 2                   | 1=NO<br>2=NC  |
| Fan Control in Heating Mode<br>(2/11 Configuration Screen)        | 95       | 2             | 1                   | 2                   | 1=Off<br>2=On   |
| UO9 Configuration<br>(6/10 Service Screen)                        | 96       | 4             | 1                   | 4                   | 1=Analog<br>2=Binary<br>3=Relay RC<br>4=Relay RH  |
| UO10 Configuration<br>(6/10 Service Screen)                       | 97       | 1             | 1                   | 3                   | 1=Analog<br>2=Binary<br>3=Relay RC  |
| UO11 Configuration<br>(6/10 Service Screen)                       | 98       | 1             | 1                   | 2                   | 1=Analog<br>2=Binary  |
| UO12 Configuration<br>(6/10 Service Screen)                       | 99       | 2             | 1                   | 2                   | 1=Analog<br>2=Binary  |
| French<br>(1/4 Language Selection Screen)                         | 101      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Spanish<br>(1/4 Language Selection Screen)                        | 102      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Chinese<br>(1/4 Language Selection Screen)                        | 103      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Russian<br>(1/4 Language Selection Screen)                        | 104      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Occupancy Source<br>(2/11 Configuration Screen)                   | 110      | 1             | 1                   | 4                   | 1=Motion<br>2=Schedule<br>3=Mot. occ.<br>4=Mot. unoc.   |
| Mode Button<br>(1/11 Configuration Screen)                        | 111      | 1             | 1                   | 2                   | 1=Normal<br>2=Off-Auto  |
| Control Status<br>(HMI Display)                                   | 112      | 1             | 1                   | 3                   | 1=Off<br>2=Cool<br>3=Heat   |
| Custom button icon  | 114      | 1             | 1                   | 17                  | 1=Default Button<br>2=No Button<br>3=System Mode Heat/Cool<br>4=System Mode On/Off<br>5=Fan mode<br>6=Override Button<br>7=Units Button<br>8=Help Button<br>9=Language Button<br>10=Schedule Button<br>11=Lighting Button<br>12=Blind Button<br>13=Lamp Button<br>14=Energy Button<br>15=Make Room Button<br>16=Setting Button<br>17=Timer Button |



| Multi-State Value Properties                                    |          |               |                     |                     |   |
|---|----------|---------------|---------------------|---------------------|---|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| Custom button behavior  | 115      | 1             | 1                   | 12                  | 1=Default function<br>2=No function<br>3=System mode function<br>4=Fan function<br>5=Override function<br>6=Schedule function<br>7=Units function<br>8=Help function<br>9=Language function<br>10=Configuration function<br>11=Custom function<br>12=Standby function |
| Comfort or economy mode<br>(8/11 Configuration Screen)          | 116      | 1             | 1                   | 2                   | 1=Comfort<br>2=Economy  |
| Reversing valve operation<br>(8/11 Configuration Screen)        | 117      | 1             | 1                   | 2                   | 1=O<br>2=B  |
| Compressor - auxiliary interlock<br>(8/11 Configuration Screen) | 118      | 1             | 1                   | 2                   | 1=Off<br>2=On   |
| Application<br>(8/11 Configuration Screen)                      | 119      | 1             | 1                   | 2                   | 1=Rooftop<br>2=Heatpump   |
| Arabic<br>(1/4 Language Selection Screen)                       | 120      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Czech<br>(1/4 Language Selection Screen)                        | 122      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Danish<br>(2/4 Language Selection Screen)                       | 123      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Dutch<br>(2/4 Language Selection Screen)                        | 124      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Finnish<br>(2/4 Language Selection Screen)                      | 125      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| German<br>(2/4 Language Selection Screen)                       | 126      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Hungarian<br>(2/4 Language Selection Screen)                    | 127      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Indonesian<br>(3/4 Language Selection Screen)                   | 128      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Italian<br>(3/4 Language Selection Screen)                      | 129      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Norwegian<br>(3/4 Language Selection Screen)                    | 130      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Polish<br>(3/4 Language Selection Screen)                       | 131      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Portuguese<br>(3/4 Language Selection Screen)                   | 132      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Slovak<br>(4/4 Language Selection Screen)                       | 133      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Swedish<br>(4/4 Language Selection Screen)                      | 134      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Turkish<br>(4/4 Language Selection Screen)                      | 135      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Schedule Type<br>(Options Screen)                               | 136      | 1             | 1                   | 2                   | 1=7 days<br>2=5 + 2 days<br>3=5 + 1 + 1 days  |

| Multi-State Value Properties                           |          |               |                     |                     |   |
|--|----------|---------------|---------------------|---------------------|---|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description   |
| UI16 Input Type  | 138      | 2             | 1                   | 3                   | 1=Therm.<br>2=Binary<br>3=Voltage   |
| UI17 Input Type  | 139      | 2             | 1                   | 3                   | 1=Therm.<br>2=Binary<br>3=Voltage   |
| UI19 Input Type<br>(7/10 Service View Screen)          | 140      | 3             | 1                   | 3                   | 1=Therm.<br>2=Binary<br>3=Voltage   |
| UI20 Input Type<br>(7/10 Service View Screen)          | 141      | 1             | 1                   | 3                   | 1=Therm.<br>2=Binary<br>3=Voltage   |
| UI22 Input Type<br>(7/10 Service View Screen)          | 142      | 1             | 1                   | 3                   | 1=Therm.<br>2=Binary<br>3=Voltage   |
| UI23 Input Type<br>(7/10 Service View Screen)          | 143      | 1             | 1                   | 3                   | 1=Therm.<br>2=Binary<br>3=Voltage   |
| UI24 Input Type<br>(7/10 Service View Screen)          | 144      | 3             | 1                   | 3                   | 1=Therm.<br>2=Binary<br>3=Voltage   |
| Room Temperature Sensor<br>(3/11 Configuration Screen) | 145      | 1             | 1                   | 23                  | 1=Wired<br>2=Internal<br>3=WL IO<br>4=WL 1<br>5=WL 2<br>6=WL 3<br>7=WL 4<br>8=WL 5<br>9=WL 6<br>10=WL 7<br>11=WL 8<br>12=WL 9<br>13=WL 10<br>14=WL 11<br>15=WL 12<br>16=WL 13<br>17=WL 14<br>18=WL 15<br>19=WL 16<br>20=WL 17<br>21=WL 18<br>22=WL 19<br>23=WL 20 |
| CO2 Display<br>(2/3 Display Screen)                    | 146      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| CO2 Autocalibration                                    | 147      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled   |
| Lock Screen<br>(1/3 Display Screen)                    | 148      | 1             | 1                   | 2                   | 1=No<br>2=Yes   |

| Multi-State Value Properties                             |          |               |                     |                     |  |
|--|----------|---------------|---------------------|---------------------|--|
| Object name  | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description  |
| Relative humidity sensor<br>(10/11 Configuration Screen) | 149      | 2             | 1                   | 22                  | 1=None<br>2=Internal<br>3=WL 1<br>4=WL 2<br>5=WL 3<br>6=WL 4<br>7=WL 5<br>8=WL 6<br>9=WL 7<br>10=WL 8<br>11=WL 9<br>12=WL 10<br>13=WL 11<br>14=WL 12<br>15=WL 13<br>16=WL 14<br>17=WL 15<br>18=WL 16<br>19=WL 17<br>20=WL 18<br>21=WL 19<br>22=WL 20 |
| CO2 source<br>(10/11 Configuration Screen)               | 150      | 2             | 1                   | 22                  | 1=None<br>2=Local<br>3=WL 1<br>4=WL 2<br>5=WL 3<br>6=WL 4<br>7=WL 5<br>8=WL 6<br>9=WL 7<br>10=WL 8<br>11=WL 9<br>12=WL 10<br>13=WL 11<br>14=WL 12<br>15=WL 13<br>16=WL 14<br>17=WL 15<br>18=WL 16<br>19=WL 17<br>20=WL 18<br>21=WL 19<br>22=WL 20    |
| Temperature Alarm Enabled<br>(1/2 Temperature Screen)    | 151      | 1             | 1                   | 2                   | 1=Off<br>2=On  |
| ADR Permission<br>(ADR Screen)                           | 152      | 1             | 1                   | 2                   | 1=Off<br>2=On  |
| Japanese<br>(3/4 Language Selection Screen)              | 155      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled  |
| Hebrew<br>(2/4 Language Selection Screen)                | 156      | 1             | 1                   | 2                   | 1=Disabled<br>2=Enabled  |
| Display the Fan Status icon<br>(3/3 Display Screen)      | 180      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled  |
| Display the System Status icon<br>(3/3 Display Screen)   | 181      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled  |
| Display the Help button<br>(3/3 Display Screen)          | 182      | 2             | 1                   | 2                   | 1=Disabled<br>2=Enabled  |

| Multi-State Value Properties                      |          |               |                     |                     |  |
|---|----------|---------------|---------------------|---------------------|--|
| Object name                                       | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description  |
| UI20 Configuration<br>(1/11 Configuration Screen) | 185      | 2             | 1                   | 2                   | 1=None<br>2=RS<br>3=MAT  |
| Wireless Device 1 - Function<br>(Device 1 Screen) | 210      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 2 - Function<br>(Device 2 Screen) | 220      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 3 - Function<br>(Device 3 Screen) | 230      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 4 - Function<br>(Device 4 Screen) | 240      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 5 - Function<br>(Device 5 Screen) | 250      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 6 - Function<br>(Device 6 Screen) | 260      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |

| Multi-State Value Properties                        |          |               |                     |                     |  |
|---|----------|---------------|---------------------|---------------------|--|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description  |
| Wireless Device 7 - Function<br>(Device 7 Screen)   | 270      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 8 - Function<br>(Device 8 Screen)   | 280      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 9 - Function<br>(Device 9 Screen)   | 290      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 10 - Function<br>(Device 10 Screen) | 300      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 11 - Function<br>(Device 11 Screen) | 310      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 12 - Function<br>(Device 12 Screen) | 320      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |

| Multi-State Value Properties                        |          |               |                     |                     |  |
|---|----------|---------------|---------------------|---------------------|--|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description  |
| Wireless Device 13 - Function<br>(Device 13 Screen) | 330      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 14 - Function<br>(Device 14 Screen) | 340      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 15 - Function<br>(Device 15 Screen) | 350      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 16 - Function<br>(Device 16 Screen) | 360      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 17 - Function<br>(Device 17 Screen) | 370      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 18 - Function<br>(Device 18 Screen) | 380      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |

| Multi-State Value Properties                        |          |               |                     |                     |  |
|---|----------|---------------|---------------------|---------------------|--|
| Object name   | Instance | Default Value | Minimum Range Value | Maximum Range Value | Description  |
| Wireless Device 19 - Function<br>(Device 19 Screen) | 390      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>9=Freezer |
| Wireless Device 20 - Function<br>(Device 20 Screen) | 400      | 1             | 1                   | 9                   | 1=None<br>2=Window<br>3=Door<br>4=Motion<br>5=Env. data<br>6=Remove<br>7=Water<br>8=Refrig.<br>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: 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.

## Program Objects

| Program Object Properties |          |  |
|---------------------------|----------|--|
| 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 19. |