MultiSITE™ MS8000 Series Room Controllers
BACnet® INTEGRATION GUIDE

MS8350
Model No. VUCQMS8350
Commercial and Hotel HVAC Fan Coil Controller

MS8650
Model No. VUCQMS8650
Rooftop Unit, Heat Pump, and Indoor Air Quality Controller

PROPRIETARY DATA NOTICE

⃠ Do not throw away, destroy, or lose this manual.

Please read carefully and store in a safe place for future reference.
Content familiarity required for proper installation.

The instructions included in this manual must be followed to prevent product malfunction, property damage, injury, or death to the user or other people. Incorrect operation due to ignoring any instructions will cause harm or damage. A summary of safety precautions begins on page 3.

For more technical materials such as submittals, engineering databooks, and catalogs, visit www.lghvac.com.

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TABLE OF SYMBOLS

⚠ **DANGER**	*This symbol indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.*
⚠ **WARNING**	*This symbol indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.*
⚠ **CAUTION**	*This symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.*
Note:	*This symbol indicates situations that may result in equipment or property damage accidents only.*
⃠	*This symbol indicates an action that should not be performed.*

COMPATIBILITY SPECIFICATIONS

Compatibility Specifications

Note:

This document contains BACnet® compatibility specifications of the LG MultiSITE MS8000 Series Room Controllers and follows the BACnet PICS format. Objects common to both models appear in one table; objects that are model specific appear in separate tables.

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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.

Table 1: Application Service for MS8350 and MS8650.

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

Table 2: Object Property Descriptions and Controller Parameters for MS8350 and MS8650.

Object Name	Type and Instance	Object Property	Controller Parameter
MS8350 / MS8650	**Device**	Object_Identifier: Property 75 (R,W)	Unique ID number of a device on a network.
		Object_Name: Property 77 (R,W)	Unique name of a device on a network.
		Model Name: Property 70 (R)	Controller model number.
		Firmware Revision: Property 44 (R)	Current BACnet firmware revision used by controller.
		Protocol Version: Property 98 (R)	Current BACnet firmware protocol version; Default is Version 1.
		Protocol Revision: Property 139 (R)	Current BACnet firmware protocol revision; Default is Version 2.
		Max ADPU Length: Property 62 (R)	Maximum ADPU Length accepted; Default is 480.
		ADPU Timeout: Property 10 (R)	ADPU timeout value; Default is 3000 ms.
		Application-Software-Version: Property 12 (R)	Controller base application software version; Default is based on current released version.
		Max_Master (R,W)	Maximum master devices allowed to be part of network; 0 to 127, default is 127.
		Description Property 28 (R,W)	String of printable characters. (Same as “Long Screen Message” CSV2.)
		Location Property 58 (R,W)	String of printable characters. (Same as “Short Screen Message” CSV1.)
		Local Date Property 56 (R)	Indicates date to best of device knowledge.
		Local Time Property 57 (R)	Indicated time of day best of the device knowledge.

Object Properties

Analog Objects for MS8350 and MS8650

Table 3: Analog Objects for MS8350 and MS8650.

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[1]	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[2,3]	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 Only	N/A	High Limit; Property 1101	Specifies a limit Present_Value must exceed before an event is generated.
N/A	Read Only	N/A	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 (MS8350 and MS8650).

[1]The Present_Value is only writeable when Out_Of_Service is TRUE (MS8350 and MS8650).

[2]Relinquish default: the value can be changed at the thermostat and will remain in the thermostat after a power cycle. Usage: temperature setpoints, fan-mode, system-mode, etc. (MS8350 only)

[3]Relinquish default is Read Only for AV100+ (MS8650 only).

Note:

For BACnet Priorities (MS8350 Only):

- *Written in EEPROM, the value cannot be changed on the MS8350 Room Controller and will remain after a power cycle. To release it, perform a “Restore Factory Default” or from BACnet at same priority level. System configuration parameters that shouldn’t be changed.*
- *Written in RAM, the value is lost after a power cycle. Usage: initialization of LUA4RC scripts.*

OBJECT PROPERTIES

Binary Objects

For MS8350 and MS8650

Binary Objects for MS8350 and MS8650

Table 4: Binary Objects for MS8350 and MS8650.

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 / Write	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 Only	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 (MS8350 and MS8650).

[1]The Present_Value is only writeable when Out_Of_Service is TRUE (MS8350 and MS8650).

[2]Relinquish default: the value can be changed at the thermostat and will remain in the thermostat after a power cycle. Usage: temperature setpoints, fan-mode, system-mode, etc. (MS8350 only)

[3]Relinquish default is Read Only for AV100+ (MS8650 only).

Note:

For BACnet Priorities (MS8350 Only):

- *Written in EEPROM, the value cannot be changed on the MS8350 Room Controller and will remain after a power cycle. To release it, perform a "Restore Factory Default" or from BACnet at same priority level. System configuration parameters that shouldn't be changed.*
- *Written in RAM, the value is lost after a power cycle. Usage: initialization of LUA4RC scripts.*

Multi-State Objects for MS8350 and MS8650

Table 5: Multi-State Objects for MS8350 and MS8650.

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.
Read / Write	Read / Write	Out of Service; Property 81	Indicates whether (TRUE/FALSE) physical input object represents is not in service.
Read / Write[1]	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 (MS8350 and MS8650).

[1]The Present_Value is only writeable when Out_Of_Service is TRUE (MS8350 and MS8650).

[2]Relinquish default: the value can be changed at the thermostat and will remain in the thermostat after a power cycle. Usage: temperature setpoints, fan-mode, system-mode, etc. (MS8350 only)

[3]Relinquish default is Read Only for AV100+ (MS8650 only).

Note:

For BACnet Priorities (MS8350 Only):

- *Written in EEPROM, the value cannot be changed on the MS8350 Room Controller and will remain after a power cycle. To release it, perform a "Restore Factory Default" or from BACnet at same priority level. System configuration parameters that shouldn't be changed.*
- *Written in RAM, the value is lost after a power cycle. Usage: initialization of LUA4RC scripts.*

OBJECT PROPERTIES

CSV / PG Objects

For MS8350 and MS8650

CSV Objects for MS8350 and MS8650

Table 6: CSV Objects for MS8350 and MS8650.

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.

PG Objects for MS8350 and MS8650

Table 7: PG Objects for MS8350 and MS8650.

Read/Write	Object Property	Controller Parameter
Read / Write	Description; Property 28	String of printable characters whose content is not restricted. Contains the LUA program script (max. size = 480 bytes).
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 all 10 PG objects executing application programs.
Read Only	Reason For Halt; Property 100	If program halts, this property reflects the reason for halt for all 10 PG objects.
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 (MS8350 and MS8650).

[1]The Present_Value is only writeable when Out_Of_Service is TRUE (MS8350 and MS8650).

[2]Relinquish default: the value can be changed at the thermostat and will remain in the thermostat after a power cycle. Usage: temperature setpoints, fan-mode, system-mode, etc. (MS8350 only)

[3]Relinquish default is Read Only for AV100+ (MS8650 only).

Note:

For BACnet Priorities (MS8350 Only):

- *Written in EEPROM, the value cannot be changed on the MS8350 Room Controller and will remain after a power cycle. To release it, perform a "Restore Factory Default" or from BACnet at same priority level. System configuration parameters that shouldn't be changed.*
- *Written in RAM, the value is lost after a power cycle. Usage: initialization of LUA4RC scripts.*

CAL Object Properties for MS8350 and MS8650

Table 8: CAL Object Properties for MS8350 and MS8650.

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.

SCH Object Properties for MS8350 and MS8650

Table 9: SCH Object Properties for MS8350 and MS8650.

Read/Write	Object Property	Controller Parameter
Read Only	Effective Period; Property 32	Range of dates within which the Schedule object is active. All dates are in range, so always Effective.
Read / Write	Exception Schedule; Property 38	Sequence of schedule actions that takes precedence over normal behavior on a specific day or days. By default, this property refers to the calendar.
Read Only	Object Identifier; Property 75	Unique ID number of an object on a network.
Read Only	Object Name; Property 77	Unique name of an object on a network.
Read Only	Object Type; Property 79	Indicates membership in a particular object type class.
Read / Write	Present Value; Property 85	Contains the current value of the schedule (0: Unoccupied, 1: Occupied). Only writeable when Out Of Service is TRUE.
Read / Write	Out Of Service; Property 81	Indicates whether (TRUE/FALSE) the internal calculations of the schedule object are used to determine the value of the Present Value property.
Read Only	Reliability; Property 103	Indicates if Present Value is “reliable”.
Read Only	Status Flags; Property 111	Represents flags that indicate general health of life safety point object.
Read / Write	Weekly Schedule; Property 123	7 elements that describe the sequence of schedule actions for each day of the week.
Read Only	Schedule Default; Property 174	Default value to be used when no other scheduled value is in effect. Always Unoccupied.

N/A = Not Applicable, property not used for objects of that type (MS8350 and MS8650).

[1]The Present_Value is only writeable when Out_Of_Service is TRUE (MS8350 and MS8650).

[2]Relinquish default: the value can be changed at the thermostat and will remain in the thermostat after a power cycle. Usage: temperature setpoints, fan-mode, system-mode, etc. (MS8350 only)

[3]Relinquish default is Read Only for AV100+ (MS8650 only).

Note:

For BACnet Priorities (MS8350 Only):

- *Written in EEPROM, the value cannot be changed on the MS8350 Room Controller and will remain after a power cycle. To release it, perform a “Restore Factory Default” or from BACnet at same priority level. System configuration parameters that shouldn’t be changed.*
- *Written in RAM, the value is lost after a power cycle. Usage: initialization of LUA4RC scripts.*

ANALOG OBJECTS

Analog Input Properties

For MS8350 Only

Analog Objects

Analog Input Properties for MS8350 Only

Table 10: Analog Input Properties for MS8350.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Light Sensor Level	2	0	0	30000	---
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	---
Wireless Device 1 - Address	210	0	-32768	32767	ZigBee® Pro
Wireless Device 2 - Address	220	0	-32768	32767	ZigBee Pro
Wireless Device 3 - Address	230	0	-32768	32767	ZigBee Pro
Wireless Device 4 - Address	240	0	-32768	32767	ZigBee Pro
Wireless Device 5 - Address	250	0	-32768	32767	ZigBee Pro
Wireless Device 6 - Address	260	0	-32768	32767	ZigBee Pro
Wireless Device 7 - Address	270	0	-32768	32767	ZigBee Pro
Wireless Device 8 - Address	280	0	-32768	32767	ZigBee Pro
Wireless Device 9 - Address	290	0	-32768	32767	ZigBee Pro
Wireless Device 10 - Address	300	0	-32768	32767	ZigBee Pro
Wireless Device 1 - Temperature	315	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 2 - Temperature	316	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 3 - Temperature	317	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 4 - Temperature	318	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 5 - Temperature	319	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 6 - Temperature	320	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 7 - Temperature	321	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 8 - Temperature	322	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 9 - Temperature	323	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 10 - Temperature	324	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Remote Relative Humidity	327	0	0	100	%
Effective Setpoint	329	0°F (-18°C)	40°F (4°C)	100°F (38°C)	Fahrenheit/Celsius
Paired ZigBee Devices	330	0	0	11	Number of paired devices
Wi-Fi Network Signal Strength	342	0	0	100	Percentage

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Analog Input Properties for MS8650 Only

Table 11: Analog Input Properties for MS8650 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Thermistor	1	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Light Sensor Level	2	0	0	30000	Lux
Thermistor Self Heat	3	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Relative Humidity Value	4	0	20	80	%
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	---
Wireless Device 1 - Address	210	0	-32768	32767	ZigBee Pro
Wireless Device 2 - Address	220	0	-32768	32767	ZigBee Pro
Wireless Device 3 - Address	230	0	-32768	32767	ZigBee Pro
Wireless Device 4 - Address	240	0	-32768	32767	ZigBee Pro
Wireless Device 5 - Address	250	0	-32768	32767	ZigBee Pro
Wireless Device 6 - Address	260	0	-32768	32767	ZigBee Pro
Wireless Device 7 - Address	270	0	-32768	32767	ZigBee Pro
Wireless Device 8 - Address	280	0	-32768	32767	ZigBee Pro
Wireless Device 9 - Address	290	0	-32768	32767	ZigBee Pro
Wireless Device 10 - Address	300	0	-32768	32767	ZigBee Pro
Wireless Device 1 - Temperature	315	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 2 - Temperature	316	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 3 - Temperature	317	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 4 - Temperature	318	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 5 - Temperature	319	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 6 - Temperature	320	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 7 - Temperature	321	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 8 - Temperature	322	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 9 - Temperature	323	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Wireless Device 10 - Temperature	324	0	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Remote Relative Humidity	327	0	0	100	%
Permit Timeout	328	0	0	180	Minutes
Effective Setpoint	329	0	40°F (4.5°C)	100°F (38°C)	Fahrenheit/Celsius
Paired ZigBee Devices	330	0	0	11	Number of paired devices
Wi-Fi Network Signal Strength	342	0	0	100	Percentage

ANALOG OBJECTS

Analog Output Properties

For MS8350 and For MS8650 Only

Analog Output Properties for MS8350 and for MS8650.

Table 12: Analog Output Properties for MS8350 Only.

Object name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
PI Heat Demand	21	0	0	100	%
PI Cool Demand	22	0	0	100	%
UO11 Analog Output	123	0	0	10	Voltage
UO12 Analog Output	124	0	0	10	Voltage
UO9 Analog Output	125	0	0	10	Voltage
UO10 Analog Output	126	0	0	10	Voltage

Table 13: Analog Output Properties for MS8650 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
PI Heat Demand	21	0	0	100	%
PI Cool Demand	22	0	0	100	%
Economizer Demand	23	0	0	100	%
AO Heat Demand	24	0	0	100	%
UO11 Analog Output	123	0	0	10	Voltage
UO12 Analog Output	124	0	0	10	Voltage
UO9 Analog Output	125	0	0	10	Voltage
UO10 Analog Output	126	0	0	10	Voltage

Analog Value Properties for MS8350 Only.

Table 14: Analog Value Properties for MS8350 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
User HMI	2	0	0	12	Show/Hide screen icons
Low Backlight	3	60	0	100	%
Night Backlight	4	5	0	100	%
Purge Sample	5	2	0	4	Hours
Purge Open	6	2	1	3	Minutes
Calibrate Temperature	7	0	-5°F (-20°C)	5°F (10°C)	Fahrenheit/Celsius
Calibrate Humidity	8	0	-15	15	%
COM Address	10	254	0	254	COM address
BACnet Stack Poll Rate	16	4	1	5	----
Param. A (AV25)	25	0	-32768	32767	----
Param. B (AV26)	26	0	-32768	32767	----
Param. C (AV27)	27	0	-32768	32767	----
Param. D (AV28)	28	0	-32768	32767	----
Param. E (AV29)	29	0	-32768	32767	----
Param. F (AV30)	30	0	-32768	32767	----
Occ. Heat	39	72°F (22°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Occ. Cool	40	75°F (24°C)	54°F (12°C)	100°F (38°C)	Fahrenheit/Celsius
Standby Heat	41	69°F (21°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Standby Cool	42	78°F (21°C)	54°F (26°C)	100°F (38°C)	Fahrenheit/Celsius
Unocc. Heat	43	62°F (17°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Unocc. Cool	44	80°F (27°C)	54°F (26°C)	100°F (38°C)	Fahrenheit/Celsius
Default Heat	45	72°F (22°C)	65°F (18°C)	80°F (27°C)	Fahrenheit/Celsius
Standby Differential	46	4°F (1.5°C)	1°F (0.5°C)	5°F (2.5°C)	Fahrenheit/Celsius
Number of Pipes	52	2	2	4	Number of pipes
Main Password	56	0	0	9999	Installer password
User Password	57	0	0	999	User password
Heating Setpoint Limit	58	90°F (32°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Cooling Setpoint Limit	59	54°F (26°C)	54°F (26°C)	100°F (38°C)	Fahrenheit/Celsius
Temp Occ. Time	62	2	0	24	Hours
Minimum Deadband	63	3°F (1.5°C)	2°F (1°C)	5°F (2.5°C)	Fahrenheit/Celsius
Proportional Band	65	3	3	10	----
Standby Time	67	0.5	0.5	24	Hours
Unoccupied Time	68	0.5	0.5	24	Hours
Dehumidification Setpoint	71	50	30	95	%RH
Dehumidification Hysteresis	72	50	30	95	%RH
Dehumidification Maximum Cool	73	100	20	100	%
CPH	84	4	3	8	Cycles/Hour
Heating Demand Limit	88	0	0	100	%
Cooling Demand Limit	89	0	0	100	%
Floating Time	90	1.5	.5	9	Minutes
Heat Lockout	91	120°F (49°C)	-15°F (-26°C)	120°F (49°C)	Fahrenheit/Celsius
Keyboard Value	92	0	0	35	----
Room Temperature	100	0°F (0°C)	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Outdoor Temperature	101	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
Supply Temperature	102	0°F (0°C)	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius

ANALOG OBJECTS

Analog Value Properties

For MS8350 Only

Table 15: Analog Value Properties for MS8350 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Room Humidity	103	0	0	100	%RH
UI19 Changeover Temperature	104	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
UI20 Remote Temperature	105	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
CO_2 level	106	0	0	5000	ppm
Terminal 24, 10 V	107	0	0	10	Voltage
UI24 Temperature	109	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
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	----
Temperature Alarm Threshold	209	40°F	32°F	45°F	Fahrenheit
Temperature Alarm Hysteresis	210	4°F	0°F	100°F	Fahrenheit
Load Shedding Offset	211	4°F (2°C)	4°F (2°C)	10°F (5.5°C)	Fahrenheit/Celsius
ECM Fan Low Voltage	212	22	20	40	Unit = Voltage Factor = 0.1
ECM Fan Medium Voltage	213	60	41	70	Unit = Voltage Factor = 0.1
ECM Fan High Voltage	214	86	71	100	Unit = Voltage Factor = 0.1
Param. G (AV225)	225	0	-32768	32767	----
Param. H (AV226)	226	0	-32768	32767	----
Param. I (AV227)	227	0	-32768	32767	----
Param. J (AV228)	228	0	-32768	32767	----
Param. K (AV229)	229	0	-32768	32767	----
Param. L (AV230)	230	0	-32768	32767	----

Analog Value Properties for MS8650 Only.

Table 16: Analog Value Properties for MS8650 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
User HMI Icons	2	0	0	12	Show/Hide screen icons
Low Backlight	3	60	0	100	%
Night Backlight	4	5	0	100	%
Calibrate Temperature	7	0	-5°F (-20°C)	5°F (10°C)	Fahrenheit/Celsius
Calibrate Humidity	8	0	-15	15	%
COM Address	10	254	0	254	COM address
PAN ID	11	0	0	32767	PAN ID
Channel	12	10	10	25	Channel
Short Address	13	0	-32768	32767	Short address
IEEE Address	14	0	-32768	32767	IEEE address
Get from COM	15	0	0	254	----
BACnet Stack Poll Rate	16	4	1	5	----
Discharge Low Limit	20	45°F (7°C)	35°F (2°C)	65°F (18°C)	Fahrenheit/Celsius
Minimum Fresh Air	21	0	0	20000	ft^3/min.
Maximum Fresh Air	22	0	0	20000	ft^3/min.
Minimum CO_2	23	800	0	5000	ppm
Maximum CO_2	24	1200	0	5000	ppm
Param. A (AV25)	25	0	-32768	32767	----
Param. B (AV26)	26	0	-32768	32767	----
Param. C (AV27)	27	0	-32768	32767	----
Param. D (AV28)	28	0	-32768	32767	----
Param. E (AV29)	29	0	-32768	32767	----
Param. F (AV30)	30	0	-32768	32767	----
Occ. Heat	39	72°F (22°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Occ. Cool	40	75°F (24°C)	54°F (12°C)	100°F (38°C)	Fahrenheit/Celsius
Standby Heat	41	69°F (21°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Standby Cool	42	78°F (21°C)	54°F (26°C)	100°F (38°C)	Fahrenheit/Celsius
Unocc. Heat	43	62°F (17°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Unocc. Cool	44	80°F (27°C)	54°F (26°C)	100°F (38°C)	Fahrenheit/Celsius
Default Heat	45	72°F (22°C)	65°F (18°C)	80°F (27°C)	Fahrenheit/Celsius
Standby Differential	46	4°F (1.5°C)	1°F (0.5°C)	5°F (2.5°C)	Fahrenheit/Celsius
Main Password	56	0	0	9999	Installer password
User Password	57	0	0	999	User password
Maximum Heating	58	90°F (32°C)	40°F (4.5°C)	90°F (32°C)	Fahrenheit/Celsius
Maximum Cooling	59	54°F (26°C)	54°F (26°C)	100°F (38°C)	Fahrenheit/Celsius
Temp Occ. Time	62	2	0	24	Hours
Minimum Deadband	63	3°F (1.5°C)	2°F (1°C)	5°F (2.5°C)	Fahrenheit/Celsius
Proportional Band	65	3	3	10	----
Standby Time	67	0.5	0.5	24	Hours
Unoccupied Time	68	0.5	0.5	24	Hours
Dehumidification Setpoint	71	50	30	95	%RH
Dehumidification Hysteresis	72	50	30	95	%RH
Calibrate Outside Temperature	74	0°F (0°C)	-5°F (-2.5°C)	5°F (2.5°C)	Fahrenheit/Celsius
Cooling Stages	75	2	1	1	Stages

ANALOG OBJECTS

Analog Value Properties

For MS8650 Only

Table 17: Analog Value Properties for MS8650 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Power-up Delay	76	10	10	120	Seconds
Econo. Minimum Position	78	0	0	100	%
Econo. Maximum Position	81	0	0	100	%
High Balance Point	82	90°F (32°C)	34°F (1°C)	90°F (32°C)	Fahrenheit/Celsius
Low Balance Point	83	-12°F (-24°C)	-40°F (-40°C)	30°F (-1°C)	Fahrenheit/Celsius
Heating CPH	84	4	3	8	Cycles/Hour
Cooling CPH	85	4	3	4	Cycles/Hour
Anti Short Cycle	86	2	0	5	Minutes
Heat Stages	87	2	0	2	Stages
Heat Dehumidification Limit	88	0	0	100	%
Cool Dehumidification Limit	89	0	0	100	%
Heat Lockout	91	120°F (49°C)	-15°F (-26°C)	120°F (49°C)	Fahrenheit/Celsius
Keyboard Value	92	0	0	35	----
Cool Lockout	93	-40°F (-40°C)	-40°F (-40°C)	95°F (35°C)	Fahrenheit/Celsius
Supply Air Setpoint	94	55°F (13°C)	50°F (10°C)	90°F (32°C)	Fahrenheit/Celsius
Changeover Setpoint	95	55°F (13°C)	14°F (10°C)	70°F (21°C)	Fahrenheit/Celsius
Fresh Air Range	96	0	0	20,000	ft^3/min.
Minimum Supply Heat	97	64°F (18°C)	50°F (10°C)	72°F (22°C)	Fahrenheit/Celsius
Supply Heat Lockout	98	32°F (0°C)	-15°F (-26°C)	120°F (49°C)	Fahrenheit/Celsius
Discharge High Limit	99	120°F (49°C)	70°F (21°C)	150°F (65.5°C)	Fahrenheit/Celsius
Room Temperature	100	0°F (0°C)	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Outdoor Temperature	101	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
Supply Temperature	102	0°F (0°C)	-40°F (-40°C)	122°F (50°C)	Fahrenheit/Celsius
Room Humidity	103	0	0	100	%RH
UI19 Temperature	104	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
UI20 Temperature	105	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
CO_2 level	106	0	0	5000	ppm
Air Flow Level	107	0	0	20,000	ft^3/min.
UI19 Analog	108	0	0	100	%
UI24 Temperature	109	0°F (0°C)	-40°F (-40°C)	150°F (65.5°C)	Fahrenheit/Celsius
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	----
Offset Relay Closing	207	0	-20,000	20,000	----
Offset Relay Opening	208	0	-20,000	20,000	----
Threshold	209	40°F	32°F	45°F	Fahrenheit
Hysteresis	210	4°F	0°F	100°F	Fahrenheit
Shed Offset	211	4°F (2°C)	4°F (2°C)	10°F (5.5°C)	Fahrenheit/Celsius

Binary Objects

Binary Input Properties for MS8350 and MS8650

Table 18: Binary Input Properties for MS8350 and MS8650.

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

Binary Output Properties for MS8350 Only

Table 19: Binary Output Properties for MS8350 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
UO9 Binary Output	93	0	0	1	0 = Off; 1 = On
UO10 Binary Output	94	0	0	1	0 = Off; 1 = On
BO4 High Speed Fan Output	95	0	0	1	0 = Off; 1 = On
BO3 Medium Speed Fan Output	96	0	0	1	0 = Off; 1 = On
BO2 Low Speed Fan Output	97	0	0	1	0 = Off; 1 = On
BO8 Auxiliary Binary Output	98	0	0	1	0 = Off; 1 = On
UO11 Binary Output	101	0	0	1	0 = Off; 1 = On
UO12 Binary Output	102	0	0	1	0 = Off; 1 = On
BO1	103	0	0	1	0 = Off; 1 = On

Binary Output Properties for MS8650 Only

Table 20: Binary Output Properties for MS8650 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
G Fan Status	25	0	0	1	0 = Off; 1 = On
Y1 Status	26	0	0	1	0 = Off; 1 = On
UY2 Status	27	0	0	1	0 = Off; 1 = On
W1 Status	28	0	0	1	0 = Off; 1 = On
W2/OB Status	29	0	0	1	0 = Off; 1 = On
UO10 Binary Output	94	0	0	1	0 = Off; 1 = On
BO1 Aux. Out	98	0	0	1	0 = Off; 1 = On
UO11 Binary Output	101	0	0	1	0 = Off; 1 = On
UO12 Binary Output	102	0	0	1	0 = Off; 1 = On

BINARY OBJECTS

Binary Value Properties

For MS8350 Only

Binary Value Properties for MS8350 Only

Table 21: Binary Value Properties for MS8350 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Door Status	1	0	0	1	0 = Closed; 1 = Open
Door Installed	2	0	0	1	0 = No; 1 = Yes
Window Status	3	0	0	1	0 = Closed; 1 = Open
Window Installed	4	0	0	1	0 = No; 1 = Yes
Low Battery	5	0	0	1	0 = Off; 1 = On
Force High Backlight	6	0	0	1	0 = Off; 1 = On
Long Message Display	7	0	0	1	0 = Off; 1 = On
Clock Alarm	8	0	0	1	0 = Off; 1 = On
Exception Status	10	0	0	1	0 = Off; 1 = On
Local Motion	32	0	0	1	0 = No Motion; 1 = Motion
Window Alarm	35	0	0	1	0 = Off; 1 = On
Filter Alarm	36	0	0	1	0 = Off; 1 = On
Service Alarm	37	0	0	1	0 = Off; 1 = On
Dehumidification Status	38	0	0	1	0 = Off; 1 = On
Recovery Status	40	0	0	1	0 = Off; 1 = On
Water Leak	44	0	0	1	0 = Off; 1 = On
Water Installed	45	0	0	1	0 = No; 1 = Yes
Water Status	46	0	0	1	0 = Normal; 1 = Leak
Low Temperature	47	0	0	1	0 = Off; 1 = On
Shed Demand	48	0	0	1	0 = Closed; 1 = Open
Shed Status	49	0	0	1	0 = No; 1 = Yes
Shed Override	50	0	0	1	0 = Closed; 1 = Open
ZigBee PIR Status	200	0	0	1	0 = No; 1 = Yes
ZigBee Sensor Motion	201	0	0	1	0 = No Motion; 1 = Motion

Binary Value Properties for MS8650 Only

Table 22: Binary Value Properties for MS8650 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Door Status	1	0	0	1	0 = Closed; 1 = Open
Door Installed	2	0	0	1	0 = No; 1 = Yes
Window Status	3	0	0	1	0 = Closed; 1 = Open
Window Installed	4	0	0	1	0 = No; 1 = Yes
Low Battery	5	0	0	1	0 = Off; 1 = On
Force High Backlight	6	0	0	1	0 = Off; 1 = On
Long Message Display	7	0	0	1	0 = Off; 1 = On
Clock Alarm	8	0	0	1	0 = Off; 1 = On
Exception Status	10	0	0	1	0 = Off; 1 = On
Local Motion	32	0	0	1	0 = No Motion; 1 = Motion
Window Alarm	35	0	0	1	0 = Off; 1 = On
Filter Alarm	36	0	0	1	0 = Off; 1 = On
Service Alarm	37	0	0	1	0 = Off; 1 = On
Dehumidification Status	38	0	0	1	0 = Off; 1 = On
Fan Lock Alarm	39	0	0	1	0 = Off; 1 = On
Recovery Status	40	0	0	1	0 = Off; 1 = On
CO_2 Alarm	41	0	0	1	0 = Off; 1 = On
Low Air Alarm	42	0	0	1	0 = Off; 1 = On
Frost Alarm	43	0	0	1	0 = Off; 1 = On
Water Leak	44	0	0	1	0 = Off; 1 = On
Water Installed	45	0	0	1	0 = No; 1 = Yes
Water Status	46	0	0	1	0 = Normal; 1 = Leak
Low Temperature	47	0	0	1	0 = Off; 1 = On
Shed Demand	48	0	0	1	0 = Closed; 1 = Open
Shed Status	49	0	0	1	0 = No; 1 = Yes
Shed Override	50	0	0	1	0 = Closed; 1 = Open
ZigBee PIR Status	200	0	0	1	0 = No; 1 = Yes
ZigBee Sensor Motion	201	0	0	1	0 = No Motion; 1 = Motion

CSV OBJECTS / MULTI-STATE OBJECTS

CSV Property Value Ranges for MS8350 and MS8650 /

Multi-State Input Properties for MS8350 Only

CSV Objects

CSV Property Value Ranges for MS8350 and MS8650

Table 23: CSV Property Value Ranges for MS8350 and MS8650.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Short Screen Message	1	0	0	64	----
Long Screen Message	2	0	0	480	----
Ext. Mem. Revision	3	0	0	9	----
Wi-Fi Device Name	4	0	0	63	----
Wi-Fi Firmware Version	5	0	0	63	----
MAC Address	6	0	0	18	----
Wi-Fi Network SSID	7	0	0	33	----
Wi-Fi Network IP Address	8	0	0	46	----
ZigBee Firmware Revision	9	0	0	32	----
ZigBee IEEE Address	10	0	0	18	----

Multi-State Objects

Multi-State Input Properties for MS8350 Only

Table 24: Multi-State Input Properties for MS8350 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Network Status	2	1	1	5	1 = Not det.; 2 = Pwr on; 3 = No NWK; 4 = Joined; 5 = Online
Effective Occupancy	33	1	1	4	1 = Occupied; 2 = Unoccupied; 3 = Override; 4 = Standby
Wireless Device 1 - Status	210	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 1 - Battery	211	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 1 - Communication Status	212	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 2 - Status	220	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 2 - Battery	221	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 2 - Communication Status	222	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 3 - Status	230	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 3 - Battery	231	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 3 - Communication Status	232	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 4 - Status	240	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 4 - Battery	241	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 4 - Communication Status	242	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 5 - Status	250	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 5 - Battery	251	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 5 - Communication Status	252	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 6 - Status	260	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak

Table 25: Multi-State Input Properties for MS8350 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Wireless Device 6 - Battery	261	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 6 - Communication Status	262	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 7 - Status	270	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 7 - Battery	271	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 7 - Communication Status	272	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 8 - Status	280	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 8 - Battery	281	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 8 - Communication Status	282	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 9 - Status	290	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 9 - Battery	291	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 9 - Communication Status	292	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 10 - Status	300	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 10 - Battery	301	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 10 - Communication Status	302	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Effective Temperature Sensor	312	1	1	14	1 = Wired, 2 = Internal, 3 = WL IO, 4 = WL 1, 5 = WL 2, 6 = WL 3, 7 = WL 4, 8 = WL 5, 9 = WL 6, 10 = WL 7, 11 = WL 8, 12 = WL 9, 13 = WL 10, 14 = WL GP
Effective Relative Humidity Sensor	313	1	1	13	1 = None, 2 = Internal, 3 = WL 1, 4 = WL 2, 5 = WL 3, 6= WL 4, 7 = WL 5, 8 = WL 6, 9 = WL 7, 10 = WL 8, 11 = WL 9, 12 = WL 10, 13 = WL GP
Effective System Mode	314	1	1	2	1=Cool; 2=Heat
Wi-Fi Module Status	315	1	1	7	1 = Offline; 2 = Initializing; 3 = Ready; 4 = Booting; 5 = Resetting; 6 = Fail; 7 = Testing
Wi-Fi Status	316	1	1	6	1= Idle; 2 = Associate; 3 = Config.; 4 = Ready; 5 = Online; 6 = Disconn.; 7 = Failure
BACnet IP Status	317	1	1	2	1 = Disabled; 2 = Enabled
SMTP Server Status	318	1	1	4	1 = Unknown; 2 = Disabled; 3 = Offline; 4 = Online

MULTI-STATE OBJECTS

Multi-State Input Properties

For MS8650 Only

Multi-State Input Properties for MS8650 Only

Table 26: Multi-State Input Properties for MS8650 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
BACnet Status	1	1	1	2	1 = Offline; 2 = Online
Network Status	2	1	1	5	1 = Not det.; 2 = Pwr on; 3 = No NWK; 4 = Joined; 5 = Online
Effective Occupancy	33	1	1	4	1 = Occupied; 2 = Unoccupied; 3 = Override; 4 = Standby
Wireless Device 1 - Status	210	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 1 - Battery	211	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 1 - Communication Status	212	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 2 - Status	220	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 2 - Battery	221	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 2 - Communication Status	222	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 3 - Status	230	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 3 - Battery	231	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 3 - Communication Status	232	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 4 - Status	240	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 4 - Battery	241	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 4 - Communication Status	242	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 5 - Status	250	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 5 - Battery	251	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 5 - Communication Status	252	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 6 - Status	260	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 6 - Battery	261	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 6 - Communication Status	262	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 7 - Status	270	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 7 - Battery	271	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 7 - Communication Status	272	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 8 - Status	280	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 8 - Battery	281	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 8 - Communication Status	282	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline

Table 27: Multi-State Input Properties for MS8650 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Wireless Device 9 - Status	290	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 9 - Battery	291	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 9 - Communication Status	292	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Wireless Device 10 - Status	300	1	1	7	1 = None; 2 = Closed; 3 = Opened; 4 = No Motion; 5 = Motion; 6 = Normal; 7 = Leak
Wireless Device 10 - Battery	301	1	1	3	1 = None; 2 = Normal; 3 = Low
Wireless Device 10 - Communication Status	302	1	1	4	1 = Not Paired; 2 = Online; 3 = Invalid; 4 = Offline
Effective Temperature Sensor	312	1	1	14	1 = Wired, 2 = Internal, 3 = WL IO, 4 = WL 1, 5 = WL 2, 6 = WL 3, 7 = WL 4, 8 = WL 5, 9 = WL 6, 10 = WL 7, 11 = WL 8, 12 = WL 9, 13 = WL 10, 4 = WL GP
Effective Relative Humidity Sensor	313	1	1	13	1 = None, 2 = Internal, 3 = WL 1, 4 = WL 2, 5 = WL 3, 6= WL 4, 7 = WL 5, 8 = WL 6, 9 = WL 7, 10 = WL 8, 11 = WL 9, 12 = WL 10, 13 = WL GP
Effective System Mode	314	1	1	2	1 = Cool; 2 = Heat
Wi-Fi Module Status	315	1	1	7	1 = Offline; 2 = Initializing; 3 = Ready; 4 = Booting; 5 = Resetting; 6 = Fail; 7 = Testing
Wi-Fi Status	316	1	1	6	1= Idle; 2 = Associate; 3 = Config.; 4 = Ready; 5 = Online; 6 = Disconn.; 7 = Failure
BACnet IP Status	317	1	1	2	1 = Disabled; 2 = Enabled;
SMTP Server Status	318	1	1	4	1 = Unknown; 2 = Disabled; 3 = Offline; 4 = Online

MULTI-STATE OBJECTS

Multi-Value Properties

For MS8350 Only

Multi-Value Properties for MS8350 Only

Table 28: Multi-Value Properties for MS8350 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Long Message Background Color	1	1	1	7	1 = White; 2 = Green; 3 = Blue; 4 = Grey; 5 = Dark Grey; 6 = Default; 7 = Red
HMI Color	2	1	1	5	1 = White; 2 = Green; 3 = Blue; 4 = Grey; 5 = Dark Grey
Main Display	3	1	1	2	1 = Temperature; 2 = Setpoint
Display Language	4	1	1	23	1 = English, 2 = French, 3 = Spanish, 4 = Chinese, 5 = Russian, 6 = Arabic, 7 = Bulgarian, 8 = Czech, 9 = Danish, 10 = Dutch, 11 = Finnish, 12 = German, 13 = Hungarian, 14 = Indonesian, 15 = Italian, 16 = Norwegian, 17 = Polish, 18 = Portuguese, 19 = Slovak, 20 = Swedish, 21 = Turkish, 22 = Japanese, 23 = Hebrew
Time Format	5	1	1	2	1 = AM-PM; 2 = 24 Hours
Network Units	6	1	1	2	1 = SI; 2 = Imperial
Network Language	7	1	1	3	1 = English; 2 = French; 3 = Spanish
BACnet Baud Rate	8	7	1	7	1 = 9600; 2 = 19200; 3 = 38400; 4 = 57600; 5 = 76800; 6 = 115200; 7 = Auto
No Active Sleep Mode	9	1	1	2	1 = Disabled; 2 = Enabled
Occupancy Command	10	2	1	3	1 = Loc. occ; 2 = Occupied; 3 = Unocc.
Standby Mode Configuration	11	1	1	2	1 = Absolute; 2 = Offset
Dehumidification Lockout	13	2	1	2	1 = Disabled; 2 = Enabled
Sequence of Operation	15	2	1	6	1 = Cool only; 2 = Heat only; 3 = Cool-rht; 4 = Heat-rht; 5 = Cool/Heat; 6 = Cl/ht-rht
System Mode	16	4	1	4	1 = Off; 2 = Auto; 3 = Cool; 4 = Heat
Fan Mode	17	2	1	3	1 = On; 2 = Auto; 3 = Smart
Use Standby Screen	32	1	1	4	1 = No; 2 = Yes; 3 = Occ. only; 4 = Screen sav
UI16 Configuration	46	1	1	5	1 = None; 2 = Rem NSB; 3 = Motion NO; 4 = Motion NC; 5 = Window
UI17 Configuration	47	1	1	5	1 = None; 2 = Door dry; 3 = Override; 4 =Filter; 5 = Service
UI19 Configuration	49	1	1	4	1 = None; 2 = COC/NH; 3 = COC/NC; 4 = COS
Auto Mode Enable	50	1	1	2	1 = Disabled; 2 = Enabled
Temperature Scale	51	1	1	2	1 = °C; 2 = °F
Fan Sequence	57	5	1	5	1 = L-M-H; 2 = L-H; 3 = L-M-H-A; 4 =L-H-A; 5 = On-Auto
Setpoint Function	58	2	1	2	1 = Dual SP; 2 = Attach SP
Auto Fan Function	66	1	1	2	1 = AS; 2 = AS/SD
Room Humidity Display	70	1	1	2	1 = Disabled; 2 = Enabled
Enable Smart Recovery	71	1	1	2	1 = Off; 2 = On
Schedule Menu	73	2	1	4	1 = Disabled; 2 = Enabled; 3 = Dis. no. clk.; 4 =En. no. clk.
Control Type	81	2	1	3	1 = On/Off; 2 = Floating; 3 = Analog

Table 29: Multi-Value Properties for MS8350 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
BO8 Aux Out Time Base	91	1	1	2	1 = 15 minutes; 2 = 10 seconds
BO8 Aux Output Configuration	92	1	1	5	1 = Reheat; 2 = Aux NO; 3 = Aux NC; 4 = F & NO; 5 = F & NC
Action	94	1	1	2	1 = DA; 2 = RA
UO9 Configuration	96	2	1	4	1 = Analog; 2 = Binary; 3 = Relay RC; 4 = Relay RH
UO10 Configuration	97	2	1	3	1 = Analog; 2 = Binary; 3 = Relay RC
UO11 Configuration	98	2	1	2	1 = Analog; 2 = Binary
UO12 Configuration	99	2	1	2	1 = Analog; 2 = Binary
French	101	2	1	2	1 = Disabled; 2 = Enabled
Spanish	102	2	1	2	1 = Disabled; 2 = Enabled
Chinese	103	2	1	2	1 = Disabled; 2 = Enabled
Russian	104	2	1	2	1 = Disabled; 2 = Enabled
Occupancy Source	110	1	1	2	1 = Motion; 2 = Schedule
Mode Button	111	1	1	2	1 = Normal; 2 = Off-Auto
Control Status	112	1	1	3	1 = Off; 2 = Cool; 3 = Heat
Custom Icon Buttons	114	1	1	17	1= Default, 2 = None, 3 = System mode Heat/Cool, 4 = System mode On/Off, 5 = Fan mode, 6 = Override, 7 = Units, 8 = Help, 9 = Language, 10 = Schedule, 11 = Lighting, 12 = Blind, 13 = Lamp, 14 = Energy, 15 = Make up room, 16 = Setting, 17 = Timer
Custom Behavior Button	115	1	1	12	1 = Default, 2 = No function, 3 = System mode function, 4 = Fan function, 5 = Override, 6 = Schedule, 7 = Units, 8 = Help, 9= Language, 10 = Configuration, 11 = Custom, 12 = Standby
Arabic	120	1	1	2	1 = Disabled; 2 = Enabled
Bulgarian	121	1	1	1	1 = Disabled
Czech	122	1	1	2	1 = Disabled; 2 = Enabled
Danish	123	1	1	2	1 = Disabled; 2 = Enabled
Dutch	124	1	1	2	1 = Disabled; 2 = Enabled
Finnish	125	1	1	2	1 = Disabled; 2 = Enabled
German	126	1	1	2	1 = Disabled; 2 = Enabled
Hungarian	127	1	1	2	1 = Disabled; 2 = Enabled
Indonesian	128	1	1	2	1 = Disabled; 2 = Enabled
Italian	129	1	1	2	1 = Disabled; 2 = Enabled
Norwegian	130	1	1	2	1 = Disabled; 2 = Enabled
Polish	131	1	1	2	1 = Disabled; 2 = Enabled
Portuguese	132	1	1	2	1 = Disabled; 2 = Enabled
Slovak	133	1	1	2	1 = Disabled; 2 = Enabled
Swedish	134	1	1	2	1 = Disabled; 2 = Enabled
Turkish	135	1	1	2	1 = Disabled; 2 = Enabled
Schedule Type	136	1	1	2	1 = 7 days; 2 = 5 + 2 days; 3 = 5 + 1 + 1 days
Schedule Events	137	3	1	3	1 = 2/day; 2 = 4/day; 3 = 6/day
UI19 Input Type	140	3	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI20 Input Type	141	1	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI22 Input Type	142	1	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI23 Input Type	143	1	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI24 Input Type	144	3	1	4	1 = Thermistor; 2 = Binary; 3 = Voltage; 4 = Reserved

MULTI-STATE OBJECTS

Multi-Value Properties

For MS8350 Only

Table 30: Multi-Value Properties for MS8350 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Room Temperature Sensor	145	3	1	14	1 = Wired, 2 = Internal, 3 = WL IO, 4 = WL 1, 5 = WL 2, 6 = WL 3, 7 = WL 4, 8 = WL 5, 9 = WL 6, 10 = WL 7, 11 = WL 8, 12 = WL 9, 13 = WL 10, 14 = WL GP
CO_2 Display	146	2	1	2	1 = Disabled; 2 = Enabled
CO_2 Auto Calibration	147	2	1	2	1 = Disabled; 2 = Enabled
Lock Screen	148	1	1	2	1 = No; 2 = Yes
Relative Humidity Sensor	149	2	1	13	1 = None, 2 = Internal, 3 = WL 1, 4 = WL 2, 5 = WL 3, 6 = WL 4, 7 = WL 5, 8 = WL 6, 9 = WL 7, 10 = WL 8, 11 = WL 9, 12 = WL 10, 13 = WL GP
Temperature Alarm Enable	151	1	1	2	1 = Off; 2 = On
ADR Permission	152	1	1	2	1 = Off; 2 = On
Wireless Device GP - Function	153	2	1	3	1 = Remove; 2 = None; 3 = T
Fan Type	154	1	1	2	1=3 speed, 2=ECM
Japanese	155	1	1	2	1= Disabled 2=Enabled
Hebrew	156	1	1	2	1= Disabled 2=Enabled
Wireless Device 1 - Function	210	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 2 - Function	220	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 3 - Function	230	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 4 - Function	240	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 5 - Function	250	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 6 - Function	260	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 7 - Function	270	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 8 - Function	280	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 9 - Function	290	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 10 - Function	300	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water

Multi-Value Properties for MS8650 Only

Table 31: Multi-Value Properties for MS8650 Only.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Long Message Background Color	1	1	1	7	1 = White; 2 = Green; 3 = Blue; 4 = Grey; 5 = Dark Grey; 6 = Default; 7 = Red
HMI Color	2	1	1	5	1 = White; 2 = Green; 3 = Blue; 4 = Grey; 5 = Dark Grey
Main Display	3	1	1	2	1 = Temperature; 2 = Setpoint
Language	4	1	1	23	1 = English, 2 = French, 3 = Spanish, 4 = Chinese, 5 = Russian, 6 = Arabic, 7 = Bulgarian, 8 = Czech, 9 = Danish, 10 = Dutch, 11 = Finnish, 12 = German, 13 = Hungarian, 14 = Indonesian, 15 = Italian, 16 = Norwegian, 17 = Polish, 18 = Portuguese, 19 = Slovak, 20 = Swedish, 21 = Turkish, 22 = Japanese, 23 = Hebrew
Time Format	5	1	1	2	1 = AM-PM; 2 = 24 Hours
Network Units	6	1	1	2	1 = SI; 2 = Imperial
Network Language	7	1	1	3	1 = English; 2 = French; 3 = Spanish
BACnet Baud Rate	8	7	1	7	1 = 9600; 2 = 19200; 3 = 38400; 4 = 57600; 5 = 76800; 6 = 115200; 7 = Auto
Occupancy Command	10	2	1	3	1 = Loc. occ; 2 = Occupied; 3 = Unocc.
Standby Mode	11	1	1	2	1 = Absolute; 2 = Offset
Fan Delay	12	2	1	1	1 = Off; 2 = On
Dehumidification Lockout	13	2	1	2	1 = Disabled; 2 = Enabled
System Mode	16	4	1	4	1 = Off; 2 = Auto; 3 = Cool; 4 = Heat
Fan Mode	17	2	1	3	1 = On; 2 = Auto; 3 = Smart
Standby Screen	32	1	1	4	1 = No; 2 = Yes; 3 = Occ. only; 4 = Screen sav
UI16 Configuration	46	1	1	6	1 = None; 2 = Rem NSB; 3 = Motion NO; 4 = Motion NC; 5 = Window; 6 = Fan Lock
UI17 Configuration	47	1	1	5	1 = None; 2 = Door dry; 3 = Override; 4 =Filter; 5 = Service
UI19 Configuration	49	1	1	2	1 = None; 2 = CO_2
Temperature Units	51	1	1	2	1 = °C; 2 = °F
Frost Protection	55	1	1	2	1 = Off; 2 = On
Setpoint Function	58	2	1	2	1 = Dual SP; 2 = Attach SP
Relative Humidity Display	70	1	1	2	1 = Disabled; 2 = Enabled
Smart Recovery	71	1	1	2	1 = Off; 2 = On
Economizer Configuration	72	1	1	2	1 = Off; 2 = On
Schedule Menu	73	2	1	4	1 = Disabled; 2 = Enabled; 3 = Dis. no. clk.; 4 =En. no. clk.
Mechanical Cooling	79	1	1	2	1 = Off; 2 = On
BO1 Auxiliary Configuration	92	1	1	2	1 = NO; 2 = NC
Fan Control Heat	95	2	1	2	1 = Off; 2 = On
UO9 Configuration	96	4	1	4	1 = Analog; 2 = Binary; 3 = Relay RC; 4 = Relay RH
UO10 Configuration	97	1	1	3	1 = Analog; 2 = Binary; 3 = Relay RC
UO11 Configuration	98	1	1	2	1 = Analog; 2 = Binary
UO12 Configuration	99	2	1	2	1 = Analog; 2 = Binary
English	100	1	1	1	1 = Enabled
French	101	2	1	2	1 = Disabled; 2 = Enabled
Spanish	102	2	1	2	1 = Disabled; 2 = Enabled

MULTI-STATE OBJECTS

Multi-Value Properties

For MS8650 Only

Table 32: Multi-Value Properties for MS8650 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
Chinese	103	2	1	2	1 = Disabled; 2 = Enabled
Russian	104	2	1	2	1 = Disabled; 2 = Enabled
Occupancy Screen	110	1	1	2	1 = Motion; 2 = Schedule
Mode Button	111	1	1	2	1 = Normal; 2 = Off-Auto
Control Status	112	1	1	3	1 = Off; 2 = Cool; 3 = Heat
Node Type	113	1	1	2	1 = Router; 2 = Coordinator
Custom Icon Buttons	114	1	1	17	1= Default 2 = None, 3 = System mode Heat/Cool, 4 = System mode On/Off, 5 = Fan mode, 6 = Override, 7 = Units, 8 = Help, 9 = Language, 10 = Schedule, 11 = Lighting, 12 = Blind, 13 = Lamp, 14 = Energy, 15 = Make up room, 16 = Setting, 17 = Timer
Custom Behavior	115	1	1	12	1 = Default, 2 = No function, 3 = System mode function, 4 = Fan function, 5 = Override, 6 = Schedule, 7 = Units, 8 = Help, 9= Language, 10 = Configuration, 11 = Custom, 12 = Standby
Comfort or Economy	116	1	1	2	1 = Comfort; 2 = Economy
Reversing Valve	117	1	1	2	1 = O; 2 = B
Comp. Interlock	118	1	1	2	1 = Off; 2 = On
Application	119	1	1	2	1 = Rooftop; 2 = Heat Pump
Arabic	120	1	1	2	1 = Disabled; 2 = Enabled
Bulgarian	121	1	1	1	1 = Disabled
Czech	122	1	1	2	1 = Disabled; 2 = Enabled
Danish	123	1	1	2	1 = Disabled; 2 = Enabled
Dutch	124	1	1	2	1 = Disabled; 2 = Enabled
Finnish	125	1	1	2	1 = Disabled; 2 = Enabled
German	126	1	1	2	1 = Disabled; 2 = Enabled
Hungarian	127	1	1	2	1 = Disabled; 2 = Enabled
Indonesian	128	1	1	2	1 = Disabled; 2 = Enabled
Italian	129	1	1	2	1 = Disabled; 2 = Enabled
Norwegian	130	1	1	2	1 = Disabled; 2 = Enabled
Polish	131	1	1	2	1 = Disabled; 2 = Enabled
Portuguese	132	1	1	2	1 = Disabled; 2 = Enabled
Slovak	133	1	1	2	1 = Disabled; 2 = Enabled
Swedish	134	1	1	2	1 = Disabled; 2 = Enabled
Turkish	135	1	1	2	1 = Disabled; 2 = Enabled
Schedule Type	136	1	1	2	1 = 7 days; 2 = 5 + 2 days; 3 = 5 + 1 + 1 days
Schedule Events	137	3	1	3	1 = 2/day; 2 = 4/day; 3 = 6/day
UI19 Input Type	140	3	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI20 Input Type	141	1	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI22 Input Type	142	1	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI23 Input Type	143	1	1	3	1 = Thermistor; 2 = Binary; 3 = Voltage
UI224 Input Type	144	3	1	4	1 = Thermistor; 2 = Binary; 3 = Voltage; 4 = Reserved
Temperature Sensor	145	3	1	14	1 = Wired, 2 = Internal, 3 = WL IO, 4 = WL 1, 5 = WL 2, 6 = WL 3, 7 = WL 4, 8 = WL 5, 9 = WL 6, 10 = WL 7, 11 = WL 8, 12 = WL 9, 13 = WL 10, 14 = WL GP
CO_2 Sensor	146	2	1	2	1 = Disabled; 2 = Enabled
CO_2 Auto Calibration	147	2	1	2	1 = Disabled; 2 = Enabled
Lock Screen	148	1	1	2	1 = No; 2 = Yes

Table 33: Multi-Value Properties for MS8650 Only, continued.

Object Name	Instance	Default Value	Minimum Range Value	Maximum Range Value	Description
RH Sensor	149	2	1	13	1 = None, 2 = Internal, 3 = WL 1, 4 = WL 2, 5 = WL 3, 6 = WL 4, 7 = WL 5, 8 = WL 6, 9 = WL 7, 10 = WL 8, 11 = WL 9, 12 = WL 10, 13 = WL GP
Auto Mode Enable	150	1	1	2	1 = None; 2 = T-rH CO_2; 3 = T-rH
ADR Permission	151	1	1	2	1 = Off; 2 = On
Wireless Device GP - Function	152	1	1	2	1 = Off; 2 = On
Function	153	2	1	3	1 = Remove; 2 = None; 3 = T
Japanese	155	1	1	2	1= Disabled; 2=Enabled
Hebrew	156	1	1	2	1= Disabled; 2=Enabled
Wireless Device 1 - Function	210	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 2 - Function	220	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 3 - Function	230	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 4 - Function	240	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 5 - Function	250	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 6 - Function	260	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 7 - Function	270	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 8 - Function	280	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 9 - Function	290	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water
Wireless Device 10 - Function	300	6	1	7	1 = None, 2 = Window, 3 =Door, 4 = Motion, 5 = Status, 6 = Remove, 7 = Water

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