SpaceLogic[™] Room Controllers

SE8350 User Interface Guide Low Voltage Fan Coil Unit (FCU) and Zone Control

Firmware Revision 2.6





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Safety Information

IMPORTANT INFORMATION

Read these instructions carefully and inspect the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

A DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

PLEASE NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Before You Begin

LOSS OF CONTROL

NOTICE

LOSS OF CONTROL

- The designer of any control scheme must consider the potential failure modes of control paths and, for certain critical control functions, provide a means to achieve a safe state during and after a path failure. Examples of critical control functions are emergency stop and over travel stop.
- · Separate or redundant control paths must be provided for critical control functions.
- System control paths may include communication links. Consideration must be given to the implications of anticipated transmission delays or failures of the link.¹
- Each implementation of equipment utilizing communication links must be individually and thoroughly tested for proper operation before being placed into service.

Failure to follow these instructions can result in equipment damage.

ELECTROSTATIC DISCHARGE

NOTICE

STATIC SENSITIVE COMPONENTS

Circuit boards and option cards can be damaged by static electricity. Observe the electrostatic precautions below when handling controller circuit boards or testing components.

Failure to follow these instructions can result in equipment damage.

Observe the following precautions for handling static-sensitive components:

- · Keep static-producing material such as plastic, upholstery, and carpeting out of the immediate work area.
- · Store static-sensitive components in protective packaging when they are not installed in the drive.
- When handling a static-sensitive component, wear a conductive wrist strap connected to the component or drive through a minimum of 1 megohm resistance.
- Avoid touching exposed conductors and components leads with skin or clothing.

¹ For additional information about anticipated transmission delays or failures of the link, refer to NEMA ICS 1.1 (latest edition), Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control or its equivalent

SECTION 1

Introduction

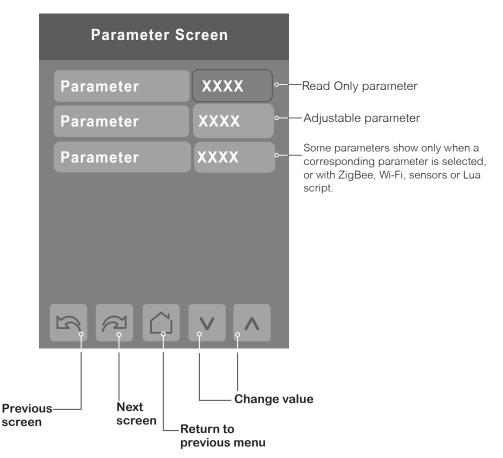
Introduction

This guide shows the user interface instructions for the SpaceLogic SE8350 Series Room Controller (RC) firmware **revision** 2.6 for users and integrators.

User and Integrator Screens

The SpaceLogic SE8350 Room Controller has dynamic screens that show adjustable parameters and read-only status information. Some screens and parameters only show when a corresponding parameter is selected. Some screens only show on models with onboard ZigBee, optional ZigBee add-on module (VCM8000), optional Wi-Fi module (VCM8002) or paired ZigBee wireless sensor end devices (SED). The Lua selection on the Setup screen only shows if a Lua script is uploaded to the Room Controller.

See below legend screen details.



NOTE: When any change is made to a parameter, the value is automatically saved in memory when the next parameter is selected or another screen is opened. This event is true only if a parameter was changed locally on the RC. Making changes through BACnet will not have the same outcome. If changes need to be done remotely through BACnet, use priority 1, 2 or 3, or write to relinquish default (priority 17).

Disclaimer

Standby screen: The Room Controller incorporates TFT-type LCD technology, and therefore, necessary precautions are required to prevent the phenomenon of image retention (residual image) from occurring.

Image retention may occur when a static image is displayed on the screen for a prolonged period of time. This can cause a faint outline of the image to remain visible on the screen when the screen is changed via the user menu, or a different image is uploaded and selected to be displayed. To minimize and prevent image retention, it is recommended to select the **Screen save** setting on the **Standby screen** selection from the setup menu **"Display 1/3"** on page 51. This setting switches the display during periods of inactivity from the Home Screen.

It is recommended to use a black or medium gray image, or one with light color contrasts as the screen saver to prevent this phenomenon from occurring. If the display still exhibits this phenomenon, loading an all-black or all-medium gray image as the screen saver and displaying it for upwards of 5 hours continuously minimizes this effect.

NOTE: Avoid placing the Room Controller in poorly ventilated areas, or in areas that may create excess heat around the display.

BACnet Integration Guide References

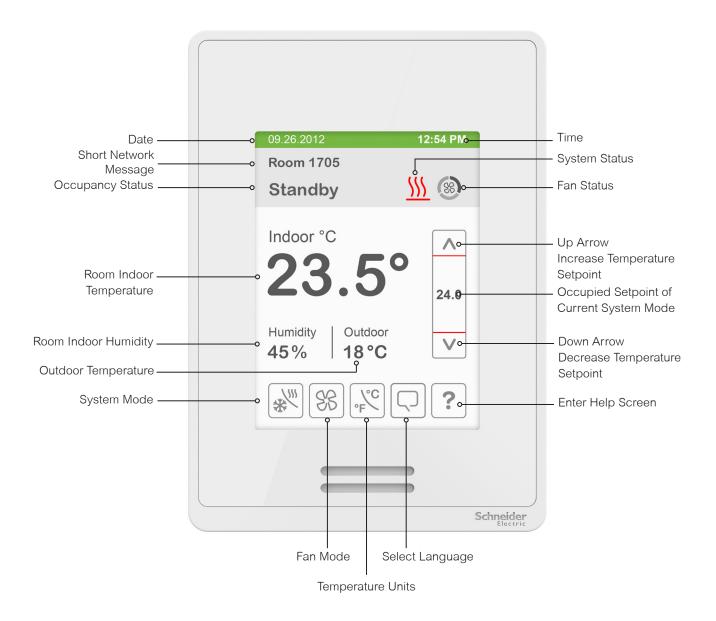
To simplify cross-referencing between the User Interface Guide and the <u>BACnet Integration Guide</u>, BACnet object properties are included in the Parameter Details tables as follows:

- Object name.
- Instance number and object type prefix. Object type prefixes are described as follows:
 - Al Analog Input
 - AO Analog Ouput
 - AV Analog Value
 - BI Binary Input
 - BO Binary Output
 - BV Binary Value
 - CSV Comma-Separated Value
 - MSI Multi-State Input
 - MV Multi-State Value
- Binary range values (for BI, BO, BV, MSI and MV instance numbers) and status enumeration descriptions.

Configuration Parameters Default Value	Significance and Adjustments
Fan status	Fan Speed Statuso Object name
Default value: Off MSI326 •—— Instance number	Status value: 1=Off, 2=Low, 3=Med, 4=High •—— Range values and
	enumeration

HMI Display

The User Human Machine Interface (HMI) is configurable and allows display functions such as Date, Time, Humidity, CO2 levels, Outdoor Temperature and Setpoint to be enabled or disabled by setting various parameters.



Enter Setup Screen



Touch and hold this point for 3 seconds to enter setup mode

Note: If a configuration/installer password is activated to prevent unauthorised access to the configuration menu parameters, a password entry prompt shows to prevent access to device configuration components.

SETUP 1/2

1/2 Setu	р	
Network	o	BACnet MS/TP, Modbus, ZigBee and Wi-Fi network settings ———— (ZigBee network settings appear only if ZigBee feature is available)
Configuration	o	Parameter configuration menu
Setpoints	o	Setpoint settings
Display	o	Display settings
Service view	o	———— Status display (Read Only)
Test Outputs	0	Test outputs settings
	ମ	

SETUP 2/2

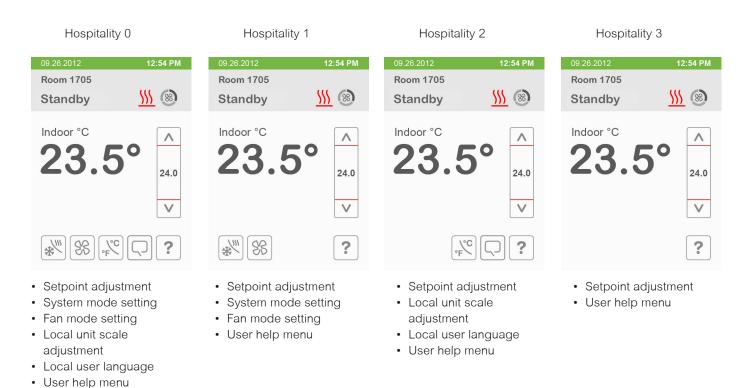
2/2 Setup	
Language Selection •	Select language
Clock - Schedule o	Set clock, schedule and occupancy
ADR •	———— Automatic Demand Response
Wireless •	Wireless Ecosystem settings (shows only if ZigBee feature is available)
LUA ~	— Lua scripting (shows only if Lua script uploaded)

SECTION 2

Customized User HMI Display

User HMI for Hospitality

To select the User HMI configuration, refer to "Display 1/3" on page 51.



NOTE: Parameters are model dependent and may not appear on certain models.

Hospitality 4	Hospital	ity 5	Hospitality 6	6
09.26.2012 12:54 PM Room 1705 Standby	09.26.2012 Room 1705 Standby	12:54 PM ∭ 🛞	09.26.2012 Room 1705 Standby	12:54 PM ∭ 🛞
Indoor °C 23.5°	Indoor °C 23.5	5 ° ^{^} 24.0 V	Indoor °C 23.5	0 1 1 1 1 1 1 1 1 1 1
		?	₩ SB • • • •	?
Fully locked interface with no user settings	Setpoint adSystem modUser help m	de setting	Setpoint adjustSystem modeFan mode set	setting

- Local unit scale
 adjustment
- User help menu

User HMI for Commercial

Commercial 7		
09.26.2012	12:54 PM	
Room 1705		
Standby	<u> </u>	
Indoor °C	0	
20.0	24.0	
	V	
***	?	

- Setpoint adjustment
- System mode setting
- Fan mode setting
- Unoccupied mode
 override
- User help menu

Room 1705

Standby

Indoor °C

23

*

Commercial 8 19:26:2012 12:54 PM Room 1705 Standby SS (S) Indoor °C 23.5° (A) 24.0 V

- Setpoint adjustment
- Unoccupied mode
 override
- Local user language

Commercial 12

User help menu



Commercial 9

- Setpoint adjustment
- Setpoint adjustment Unoccupied mode

override

• User help menu

Unoccupied mode
 override

12%

Commercial 10

Room 1705

Standby

Indoor °C

23.5

12:54 PM

Commercial 11



(Stree

- Setpoint adjustment
- System mode setting
 Unoccupied mode override
- User help menu
- Offset setpoints
- adjustment
- System mode settingLocal user language
- Fan mode setting
- User help menu

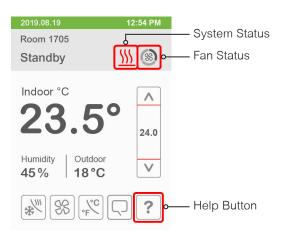
NOTE: The day/night setback button appears only in unoccupied mode in the Commercial HMIs 7 to 11. If UI17 input is configured as "override", the day/night setback button does not show.

NOTE: Parameters are model dependent and may not appear on certain models.

User HMI Show/Hide Options

User HMI displays can be customized further by hiding the system status, fan status or help button. Each show/hide option is applicable to all User HMI configurations where the option is shown. To hide the option, select disabled for each display setup screen parameter. Refer to "Display 3/3" on page 55.

Options Enabled



Options Disabled



Configuration Parameters Default Value	Significance and Adjustments
Control status Default value: Off MV112	System Status (BACnet object name: Control Status) Status value: 1=Off, 2=Cool, 3=Heat
Fan status Default value: Off MSI326	Fan Speed Status Status value: 1=Off, 2=Low, 3=Med, 4=High

System Mode



PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
System mode	System Mode
Default value: Heat	
MV16	Off: Heating, Cooling and Dehumidification demands are ignored.
	Auto : Room Controller automatically toggles between Heating and Cooling modes to satisfy both Heating and Cooling demands. Dehumidification is allowed.
	 Cool: Room Controller only satisfies Cooling demands, Heating demands are ignored. Dehumidification is allowed. Heat: Room Controller only satisfies Heating demands, Cooling demands are ignored. Dehumidification is allowed.
	Choices: 1=Off, 2=Auto, 3=Cool, 4=Heat

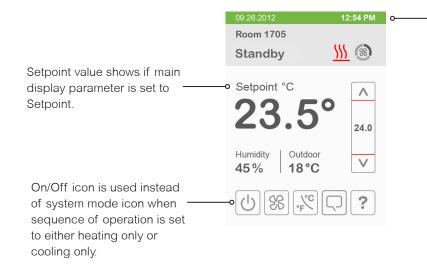
Fan Mode Settings



The Fan mode settings displayed on the home screen must be configured in the Fan menu tab of the Configuration menu.

Configuration Parameters Default Value	Significance and Adjustments
Fan mode	Fan Mode
Default value: Auto MV17	Choices: 1=Low, 2=Med, 3=High, 4=Auto, 5=On

Heating Only Configuration

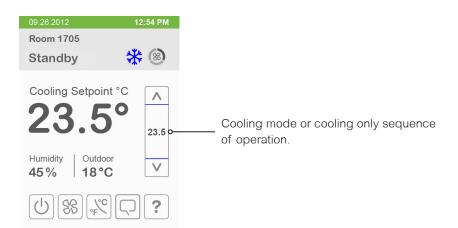


-Time and Date show only when a network time synchronisation command is received.

Setpoint Adjustment for Cooling Mode

In Cooling mode, the setpoint displayed in the bar is the current occupied cooling setpoint. During occupied setpoint adjustment, the large digits are temporarily used to show occupied cooling setpoint while it is adjusted.

Normal temperature display resumes after setpoint is adjusted and actual occupied cooling setpoint shows in setpoint bar.

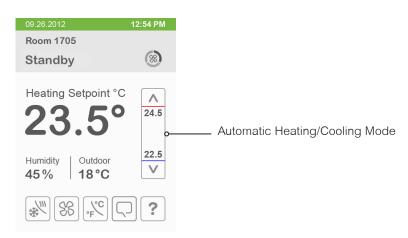


Setpoint Adjustment for Automatic Mode

In automatic mode, setpoint showing at the top of the set point bar located directly under the red line represents the actual occupied cooling setpoint.

During occupied setpoints adjustment, large digits are temporarily used to display the occupied Cooling Setpoint or occupied Heating Setpoint. The actual setpoint is dependent on the last effective demand (heating or cooling). The setpoint on top of the blue line represents the actual occupied heating setpoint. The differential between the occupied heating and cooling setpoint is defined by the minimum deadband configuration parameter.

Normal temperature display resumes after setpoints are adjusted and the actual occupied heating and cooling setpoints show in the setpoint bar.



Other Functions

Local humidity shows when RH display is enabled on the setup display screen, from either the internal onboard sensor or a wireless sensor end device selected by the RH sensor parameter on the setup configuration screen.

CO2 shows when CO2 display is enabled on the setup display screen, from either the optional CO2 detection sensor module or a wireless sensor end device selected by the CO2 source parameter on the setup configuration screen.

Outdoor temperature shows when receiving a valid networked outdoor temperature value.

09.26.2012 Room 1705 Standby	12:54 PM	2019.08.19 Room 1705 Standby	12:54 PM	09.26.2012 Room 1705 Standby	12:54 PM ∭ ⑧
Setpoint °C	24.0	Indoor °C 23.5	50 1 24.0	Indoor °C 23.5	50 1 24.0
Humidity Outdoor 45% 18°C	V	Humidity CO2 45% 945	ppm V	Outdoor 18°C	V
Ŭ Ŝ .⊱		**** SB .~*	°.	*** SS .**	

Customizable Color Options

To select the color option, refer to "Display 1/3" on page 51.











Dark Grey

Pink

Purple

2018.04.18

Room 1705

Occupied

Indoor °C

Humidity

45%

*

Red

12:54 PM

<u>>>></u> 🛞

0

Outdoor

18°C

 \mathbb{C}

SS

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24.0

V

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Orange

Black

SECTION 3

Integrator Setup Screens

Network Screens

User can select wired BACnet / Modbus / ZigBee wireless protocol (when ZigBee feature is available).

NOTICE

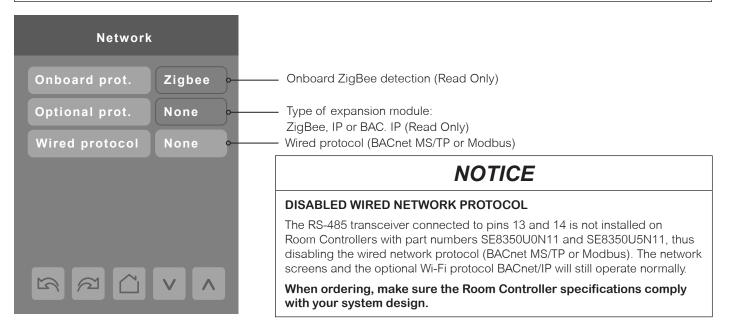
UPGRADE OF ZIGBEE FIRMWARE REVISION 24 TO 30

The upgrade from ZigBee firmware revision 24 to 30 will **not** support the Green Power Sensor (SED-CO2-G-5045 or SED-TRH-G-5045). It will therefore need to be recommissioned.

There is also a new "Security Levels" parameter for the Zigbee network (see page 21):

- Low (default value) is fully backwards compatible with ZigBee Home Automation 1.2 devices, and therefore compatible with all of our sensors.
- **Normal** or **High** (needs to be selected by user) is only compatible with Green Power and ZigBee 3.0 network standard (Leedarson sensors). If the Normal or High Security Level is selected with old NYCE or Centralite sensors, they will be removed from the network.

Failure to follow these instructions can result in equipment being disconnected from the network.



Configuration Parameters Default Value	Significance and Adjustments	
Onboard prot. Read Only	Onboard Protocol	
Read Only	Onboard ZigBee detection	
	Display Readings: None, ZigBee	
Optional prot. Read Only	Optional Protocol	
	Requires ZigBee add-on module (VCM8000) or Wi-Fi module (VCM8002). BACnet/IP is enabled from the Configuration Web Page or the Uploader Tool.	
	None: No module detected	
	ZigBee: ZigBee module detected	
	IP: Wi-Fi module detected BAC. IP: Wi-Fi module detected and BACnet/IP enabled	
	Display Readings: None, ZigBee, IP or BAC. IP	
Wired protocol	Wired Protocol	
Default value: BAC MSTP	None: No wired protocol configured	
	BAC MSTP: BACnet MS/TP network protocol	
	Modbus: Modbus network protocol	
	Choices: None, BAC MSTP or Modbus	

ZIGBEE NETWORK 1/3

The ZigBee Network screen shows only in models with onboard ZigBee or optional ZigBee add-on module.

When creating a ZigBee network, there must be one and only one device with its Node Type set to Coordinator. For a ZigBee network with a single Room Controller (RC), the RC is set as Coordinator to pair with the Sensor End Devices (SED). Setting the RC back to Router will remove the paired SEDs.

For a ZigBee network with a Building Management System (BMS) server or controller paired to multiple RCs, the BMS is set as Coordinator and the RCs are set as Router. The Coordinator BMS controls the pairing of the Router RCs to the SEDs

Note: Before pairing any ZigBee devices, the network must first be created by the Coordinator.

1/3 ZigBee Network		
Node type	Router	
PAN ID	0	
Channel	10	
Security	Low	
Network Status	No NWK	
Permit join	Off	

Configuration Parameters Default Value	Significance and Adjustments
Node type	Node Type
Default: Router	Sets device to act as Router or Coordinator in a network.
	Coord .: Creates the network and manages the binding of wireless devices. Router : Joins a network created by a coordinator (Coordinator permit join must be set to 'ON').
	Choices: Coord. or Router
PAN ID	ZigBee Pan ID
Default value: 0	Personal Area Network Identification that links specific Room Controllers to spe- cific ZigBee coordinators. For every Room Controller reporting to a coordinator, set the SAME PAN ID value both on the coordinator and the Room Controller.
	Note : The default value of 0 is NOT a valid PAN ID and causes ZigBee to be disabled.
	Range: 1 to 65535
Channel	ZigBee Channel
Default value: 10	The channel (wireless frequency) on which the ZigBee network transmits and receives data. The channel of the Coordinator must match that of the routers to exchange data.
	The default value of 10 is NOT a valid channel and causes ZigBee to be disabled. The valid range of available channels is from 11 to 25.
	Using channels 15, 20, and 25 is recommended. Channel 25 is considered as being the best one because it is furthest from the Wi-Fi channels.
	Range: 10 to 25

Configuration Parameters Default Value	Significance and Adjustments
Security	Security Levels
Default value: Low	Note : Changing between ZigBee Security levels does not require re-creating the ZigBee network, or re-commissioning sensors.
	Low : Disables new security features in Zigbee 3.0 to be fully backwards compat- ible with ZigBee Home Automation 1.2 devices, and therefore compatible with all of our sensors.
	Normal: Enables the typical new features of Zigbee 3.0. This means that legacy ZigBee Home Automation 1.x devices cannot join a Normal security network. Compatible with the following sensors: • SED-WDS-P-5045 • SED-WDC-G-5045 • SED-CMS-P-5045 • SED-WMS-P-5045 • SED-MTH-G-5045 • SED-TRH-G-5045 • SED-TRH-G-5045
	High : Enables the Zigbee 3.0 high security network joining. The high security level will encrypt the initial network key transport from the network coordinator to the joining Room Controller. This will protect the joining process from eavesdropping attacks (also known as sniffing or snooping attacks). Your network coordinator, such as a BMS server or controller, must be compatible with the Zigbee 3.0 standard. To start the network join, the Room Controller's IEEE address and install code must be transferred to the network coordinator (refer to "ZigBee Network 3/3" on page 23).
	Note : Before starting the network join, make sure to set the PAN ID and set the Node type to Router. High security is supported only when the Node Type is set to Router, it is disabled when the Node type is set to Coordinator.
	Important! Selecting the Normal Security option will result in the removal of legacy sensors from the network.
	Choices: Low, Normal or High
Network Status	ZigBee Network Status
Read Only MSI2	Shows the current status of the ZigBee network.
	Not det.: Zigbee module not detected Pwr on: Zigbee module detected but not configured No NWK: ZigBee configured but no network joined Joined: ZigBee network joined Online: Communicating (Exchanging data)
	Display Readings: 1=Not det., 2=Pwr on, 3=No NWK, 4=Joined, 5=Online
Permit join	Permit Join
Default value: Off	Changing this value to "Off" on the Coordinator prevents any new ZigBee devices from joining the network.
	Permit join can be On/Off when the Room Controller is a Coordinator, however the parameter is read only when the Room Controller is a router. If not set to off manually the Permit join will stay On for 3 hours.
	Choices: On or Off

ZIGBEE NETWORK 2/3



Configuration Parameters Default Value	Significance and Adjustments
COM address Default value: 254 AV10	COM Address Room Controller networking address. For wireless models, the use of the COM address is not mandatory. The COM address is an optional way to identify a de- vice on the network and is recommended if used with a BMS. It is Mandatory for BACnet. Range: 0 to 254
Short address Default value: 0 Read Only	Zigbee Short Address The unique ZigBee short address is generated once a wireless device joins a ZigBee network.
IEEE address Read Only CSV10	Zigbee IEEE Address The extended IEEE address (MAC address) is a unique worldwide identifier of the onboard ZigBee or optional ZigBee add-on module.
Zigbee revision Read Only CSV9	Zigbee Firmware Revision Shows the ZigBee firmware revision number.

ZIGBEE NETWORK 3/3

The 3/3 Zigbee Network screen shows only when the security level is set to high.



Configuration Parameters Default Value	Significance and Adjustments
IEEE address	Zigbee IEEE Address
Read Only CSV10	The extended IEEE address (MAC address) is a unique worldwide identifier of the onboard ZigBee or optional ZigBee add-on module.
Install code	Install Code
Read Only	The install code is used as a shared key to make an initial secure connection between the network coordinator and the Room Controller when joining the Zigbee 3.0 high security network (refer to "Security Levels" on page 21). Once the Room Controller has successfully joined the network, a new key is created for future secure connections. The install code contains a key of 16-byte hexadecimal numbers plus a 2-byte cyclic redundancy check (CRC) code at the end. Warning : To maximize security, a new random install code is generated each time the Room Controller is power cycled, or its Zigbee settings are changed. Make sure to set the Zigbee PAN ID and set the Security Level to High before transfer- ring the Install Code.
QR code	QR Code
Read Only	The QR code provides an easy way to transfer the Room Controller's IEEE address and install code to the network coordinator. The QR code format is defined by the Zigbee 3.0 standard. The QR code is scanned with the mobile app for your gateway commissioning software. If your software does not support QR code data transfer, you can read the IEEE address and install code and enter them into a web page or provide them over the phone to the system administrator.
	Format: Z\$A:{IEEE address}\$I:A{Install code}

BACNET NETWORK SETTINGS

BACnet network screen shows when BACnet MS/TP is selected in wired protocol parameter.

1/2 BACnet Network	
COM address	254
Network units	SI
Network lang.	English
Baud rate	Auto
Baud rate BACnet status	Auto Offline

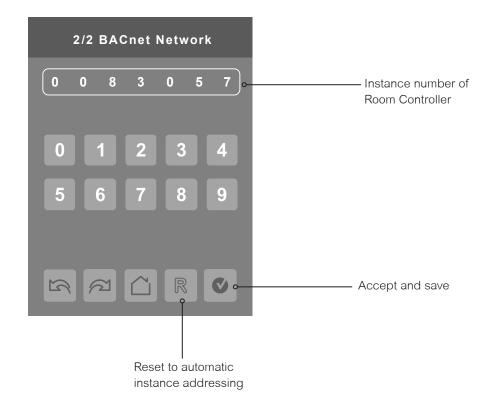
Configuration Parameters Default Value	Significance and Adjustments
COM address	COM Address
Default value: 254 AV10	Room Controller networking address.
	Default value of 254 disables BACnet communication for the Room Controller.
	Range: 0 to 254
Network units	Network Units
Default value: SI MV6	Network units transmitted over the BACnet network.
	NOTE: Use the Temperature scale parameter to change the display units locally on the Room Controller.
	SI : Network units shown as International Metric units. Imperial : Network units shown as Imperial units.
	Choices: 1=SI, 2=Imperial
Network lang.	Network Language
Default value: English MV7	Network language/object names transmitted over network.
	Choices: 1=English, 2=French, 3=Spanish
Baud rate	BACnet Baud Rate
Default value: Auto MV8	Leave the value at Auto unless instructed otherwise as this automatically detects BACnet baud rate.
	Choices : 1=9600, 2=19200, 3=38400, 4=57600, 5=76800, 6=115200, 7=Auto
BACnet status	BACnet Status
Read Only	Read Only value shows if a BACnet Network is detected or not.
	Display Readings: Online or Offline
BACnet PRate	BACnet Stack Poll Rate
Default value: 4 AV16	Rate at which a BACnet stack is processed, in milliseconds.
	Range: 1 to 5

BACNET INSTANCE NUMBER

The default BACnet instance number is generated by the model number and COM address of the Room Controller. For example, the instance number of a SE8350U5BxxP with a COM address of 57 is generated as "83057".

The default instance number appears first. To change the instance number, use number pad and press Accept and save.

Tap "R" icon to reset to automatic instance addressing.



MODBUS NETWORK SETTINGS

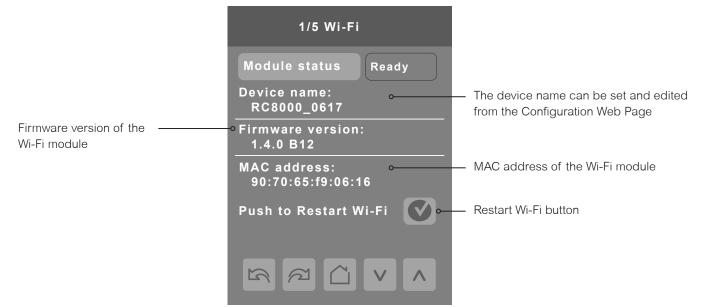
Modbus network screen shows when Modbus is selected in wired protocol parameter.

Modbus Network	
COM address	254
Network units	SI
Baud rate	19200
Parity	None

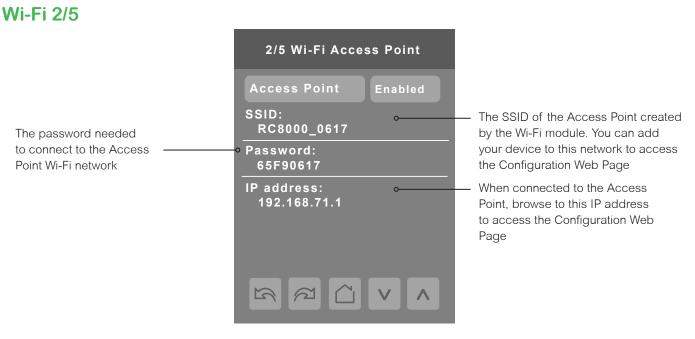
Configuration Parameters Default Value	Significance and Adjustments
COM address Default value: 254	Communication Address Valid address range is set at 1 to 247 and each Modbus device must have a unique address. Other values not recommended for Modbus. Default value of 254 disables Modbus communication for the Room Controller. Range: 0 to 254
Network units Default value: SI	Measurement Units Network units transmitted over the Modbus network. NOTE: Use the Temperature scale parameter to change the display units locally on the Room Controller. Imperial: network units shown as Imperial units. SI: network units shown as International Metric units. Choices: Imperial or SI
Baud rate Default value: 19200	Modbus Baud Rate Automatically detects Modbus baud rate. Choices: 57600, 38400, 19200, 9600 and 4800
Parity Default value: Even	Parity Determines how the parity bit of the character's data frame is set to detect any errors in the sent/receives frame. Choices: None, Odd and Even

Wi-Fi 1/5

The Wi-Fi Network screen shows only in models with optional Wi-Fi module (VCM8002).



Configuration Parameters Default Value	Significance and Adjustments
Module status	Wi-Fi Module Status
Read Only MSI315	Displays the current status of the Wi-Fi module. It would normally display Ready when the Wi-Fi module is operational.
	Status value : 1=Offline, 2=Initializing, 3=Ready, 4=Booting, 5=Resetting, 6=Fail, 7=Testing
Device Name	Wi-Fi Device Name
Read only CSV4	The device name can be set and edited from the Configuration Web Page.
Firmware version	Wi-Fi Firmware Version
Read only CSV5	Shows the Wi-Fi Module firmware revision number.
MAC address	MAC Address
Read only CSV6	The MAC address is a unique hardware identifier of the Wi-Fi Module.



Configuration Parameters Default Value	Significance and Adjustments
Access point Default value: Disabled	Access Point
	On this screen the access point can be enabled or disabled as needed.
	Choices: Enabled or Disabled

Wi-Fi 3/5

connected to

3/5 Wi-Fi Network Ready Fair SMTP status Online SSID of the building Wi-Fi SSID: network that the device is Your Wi-Fi Network IP address: 192.168.171.40 (dhcp) 5 α Λ

- When connected to the building Wi-Fi network shown above, browse to this IP address to access the Configuration Web Page

Configuration Parameters Default Value	Significance and Adjustments
Wi-Fi status	Wi-Fi Status
Read Only MSI316	When not connected to a Wi-Fi network the status remains Idle. Once the RC is on your preferred Wi-Fi network, the status will be displayed as Ready,
	Status value: 1=Idle, 2=Associate, 3=Config., 4=Ready, 5=Online, 6=Disconn., 7=Failure
Signal strength	Wi-Fi Network Signal Strength
Read Only MSI327	Signal strength of the Wi-Fi network.
	Range: 1=Unknown, 2=Weak, 3=Fair, 4=Good, 5=Excellent
SMTP status	SMTP Server Status
Read Only MSI318	Status of the email SMTP server. Email notifications are enabled and configured from the Configuration Web Page.
	Status value: 1=Unknown, 2=Disabled, 3=Offline, 4=Online
SSID	Wi-Fi Network SSID
Read only CSV7	SSID of the building Wi-Fi network that the device is connected to. The SSID is set from the Configuration Web Page.
IP address	Wi-Fi Network IP Address
Read only CSV8	When connected to the building Wi-Fi network shown above, browse to this IP address to access the Configuration Web Page.

Wi-Fi 4/5



Configuration Parameters Default Value	Significance and Adjustments
Facility Expert	Facility Expert Enabled
Read Only MSI319	Shows whether the Facility Expert system is Disabled or Enabled.
	Status value: 1=Disabled, 2=Enabled
Status	Facilty Expert Status
Read Only MSI323	Shows the current status of the Facility Expert system.
	Range: 1=Disabled, 2=Offline, 3=Connect., 4=Online, 5=Failure, 6=Unknown
Last communication time Read Only	Last Communication Time
MAC address	MAC Address
Read only CSV6	The MAC address is a unique hardware identifier of the Wi-Fi Module.

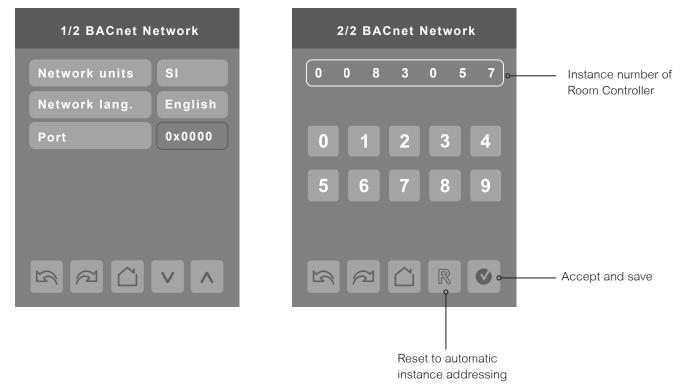
Wi-Fi 5/5



Configuration Parameters Default Value	Significance and Adjustments
Factory reset? Default value: No	Erase All Accepting Yes for both and then tapping 'Push to accept' will restore the Wi-Fi
	module to the factory settings, erase all configuration data and revert the Wi-Fi module firmware to the factory firmware version.
Are you sure? Default value: No	NOTES:
	 If you lose or forget your password for the Configuration Web Page, you must do a Factory Reset of the Wi-Fi module. If your Wi-Fi module was connected to Facility Expert, you will need to contact your Facility Expert Administrator before the device can be reconnected after a Factory Reset.

Wi-Fi BACNET NETWORK SETTINGS

BACnet network screens are shown when the wired protocol is set to BACnet or a Wi-Fi module is installed with BACnet/IP enabled. Only one BACnet protocol can be used at a time, either the wired protocol BACnet MS/TP (BACnet Network screens), or the Wi-Fi BACnet IP (Wi-Fi screens). BACnet/IP is enabled from the Configuration Web Page or the Uploader Tool. BACnet object name, instance number and range: BACnet IP Status, MSI317, 1=Disabled, 2=Enabled.



PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
Network units	Network Units
Default value: SI MV6	Network units transmitted over the BACnet network.
	NOTE: Use the Temperature scale parameter to change the display units locally on the Room Controller.
	SI : Network units shown as International Metric units. ImperiaI : Network units shown as Imperial units.
	Choices: 1=SI, 2=Imperial
Network lang.	Network Language
Default value: English MV7	Network language/object names transmitted over network.
	Choices: 1=English, 2=French, 3=Spanish
Port	Port
Default value: 0 Read Only	The unique short address of Wi-Fi BACnet IP

BACNET INSTANCE NUMBER

The default BACnet instance number is generated by the model number and COM address of the Room Controller. For example, the instance number of a SE8350U5BxxP with a COM address of 57 is generated as "83057".

The default instance number appears first. To change the instance number, use number pad and press **Accept and save**. The BACnet instance number can also be changed from the Configuration Web Page or the Uploader Tool.

Tap "R" icon to reset to automatic instance addressing.

Configuration Screens

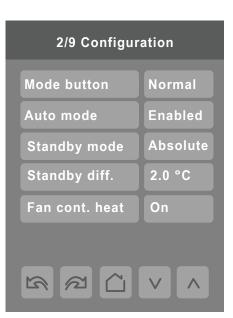
CONFIGURATION 1/9



Configuration Parameters Default Value	Significance and Adjustments
UI16 config	UI16 Configuration
Default value: None MV46	 None: No function will be associated with the input. Input can be used for remote network monitoring. Rem NSB: Remote night setback (NSB) timer clock input. The scheduling gets set as per the binary input and provides low cost setback operation via a dry contact. Motion NO and Motion NC: Advanced PIR occupancy functions using a Normally Open (NO) or Normally Closed (NC) remote PIR motion sensor. Window: Forces system to disable any current heating or cooling action by Room Controller when window is open. Choices: 1=None, 2=Rem NSB, 3=Motion NO, 4=Motion NC, 5=Window
UI17 config Default value: None MV47	 UI17 Configuration None: No function associated with input. Door Dry: Room Controller goes to standby mode when door is opened then closed followed by no presence detection for the next 10 seconds if the local PIR is used in this application. The "Occupancy Command" (refer to "Options" on page 72) must be set to "Local Occupancy" and "Occupancy Source" (refer to page 34) must be set to "Motion". Override: A closed contact forces the Room Controller to go in occupied mode. An open contact keeps the current occupancy mode. Filter: backlit flashing filter alarm shows on the Room Controller screen when input is energized. Service: backlit flashing Service alarm shows on Room Controller screen when input is energized. Choices: 1=None, 2=Door Dry, 3=Override, 4=Filter, 5=Service

Default value: None MV49	Significance and Adjustments Ul19 Configuration None: no function associated with input though input can be used for remote network monitoring. COC/NH: change over dry contact normally heat. Used for hot/cold water or air change over switching in 2-pipe systems. COC/NC: change over dry contact normally cool. Used for hot/cold water or air change over switching in 2-pipe systems. COS: change over sensor. Used for hot/cold water or air changeover switching in 2-pipe systems.
Default value: None MV49	 None: no function associated with input though input can be used for remote network monitoring. COC/NH: change over dry contact normally heat. Used for hot/cold water or air change over switching in 2-pipe systems. COC/NC: change over dry contact normally cool. Used for hot/cold water or air change over switching in 2-pipe systems. COS: change over sensor. Used for hot/cold water or air changeover switching in
MV49	network monitoring. COC/NH : change over dry contact normally heat. Used for hot/cold water or air change over switching in 2-pipe systems. COC/NC : change over dry contact normally cool. Used for hot/cold water or air change over switching in 2-pipe systems. COS: change over sensor. Used for hot/cold water or air changeover switching in
	COC/NH : change over dry contact normally heat. Used for hot/cold water or air change over switching in 2-pipe systems. COC/NC : change over dry contact normally cool. Used for hot/cold water or air change over switching in 2-pipe systems. COS : change over sensor. Used for hot/cold water or air changeover switching in
	change over switching in 2-pipe systems. COC/NC : change over dry contact normally cool. Used for hot/cold water or air change over switching in 2-pipe systems. COS: change over sensor. Used for hot/cold water or air changeover switching in
	COC/NC : change over dry contact normally cool. Used for hot/cold water or air change over switching in 2-pipe systems. COS: change over sensor. Used for hot/cold water or air changeover switching in
	change over switching in 2-pipe systems. COS: change over switching in the change over sensor. Used for hot/cold water or air changeover switching in
	2 pipe systems.
	Choices: 1=None, 2=COC/NH, 3=COC/NC. 4=COS
Occupancy src (Default value: Motion	Occupancy Source
	Motion: Occupancy status is received from a motion sensor.
	Schedule: Occupancy status is determined by the schedule.
	Mot. occ: Occupied when scheduled occupied AND when motion is detected.
	Mot. unoc: Occupied when scheduled occupied OR when motion is detected.
	Choices: 1=Motion, 2=Schedule, 3=Mot. occ., 4=Mot. unoc.
Smart recovery I Default value: Off	Enable Smart Recovery
	Off: No smart recovery. The occupied schedule time is the time at which the
	system will restart.
	On : Smart recovery active. The occupied schedule time is the time at which the
	desired occupied temperature will be attained. The Room Controller automatically optimizes the equipment start time. In any case, the latest a system will restart is
	10 minutes prior to the occupied period time.
	Smart recovery is automatically disabled if UI16 is configured to remote NSB.
	Choices: 1=Off, 2=On
•	Setpoint Function
Default value: Attach SP MV58	Local setpoint settings to set the local setpoint interface for the User.
,	Dual SP: "Minimum" Deadband, Heat and Cool Setpoints can be adjusted
	independently.
	Attach SP: "Fixed" Deadband in occupied mode, Heat and Cool setpoints
	always follow each other, separated by Deadband value (acts like a single setpoint).
	Choices: 1=Dual SP, 2=Attach SP

CONFIGURATION 2/9



Configuration Parameters Default Value	Significance and Adjustments
Mode button	Mode Button
Default value: Normal MV111	Changes the behavior of the system mode button functionality and hides/shows temperature setpoints on main screen.
	 Normal: System mode button switches between 'Off', 'Auto', 'Cool' and 'Heat'. Also displays temperature Setpoints on main screen. Off-Auto: System mode button switches between 'Off' and 'Auto'. Hides temperature Setpoints on main screen.
	NOTE : Setting 'Mode button' to 'Off-Auto' forces the 'Setpoint func.' parameter to 'Attach SP'.
	Choices: 1=Normal, 2=Off-Auto
Auto mode	Auto Mode Enable
Default value: Enabled MV50	Enables auto function for the mode button. For sequences 2, 4, and 5 only.
	Disabled : auto not active (Off-Cool-Heat) Enabled : auto active (Off-Cool-Heat-Auto)
	Choices: 1=Disabled, 2=Enabled
Standby mode	Standby Mode Configuration
Default value: Absolute MV11	Standby setpoints used for control.
	Absolute: Standby entered values are used for standby mode. Offset: Occupied setpoints +/- Standby diff. used for standby mode.
	Choices: 1=Absolute 2=Offset

Configuration Parameters Default Value	Significance and Adjustments
Standby diff.	Standby Temperature Differential
Default value: 4°F (2.0°C) AV46	When Standby mode is set to 'offset', standby setpoints are calculated as follows:
	Standby cool : Cool setpoint + Standby diff. Standby heat : Heat setpoint - Standby diff.
	Refer to "Setpoints Screens" on page 49 to define Standby cool and Standby heat values.
	Range : 1 to 5°F (0.5 to 2.5°C), using 1.0 °F (0.5 °C) increments.
Fan cont. heat	Fan Control in Heating Mode
Default value: On MV95	Configures the operation of the fan when system is heating.
	On :Fan on Off-Auto : Fan off if fan mode is auto Off-All : Fan off
	Choices: 1=On, 2=Off-Auto 3=Off-All

CONFIGURATION 3/9



Configuration Parameters Default Value	Significance and Adjustments
Fan menu	Fan Sequence
Default value = On-Auto MV57	Fan Sequence configuration applies to "3 speed" and "ECM" fan type. The selected fan sequence in this menu dictates the Fan button options displayed on the Home screen of the room controller.
	 L-M-H: 3-Speed configuration L-H: 2-Speed configuration L-M-H-A: 3-Speed configuration with Auto fan speed. Auto Mode operation is dependent on Auto Fan parameter.
	L-H-A: 2-Speed configuration with Auto fan speed mode. Auto Mode operation is dependent on Auto Fan parameter.
	On-Auto : Single Speed configuration. Auto selection will activate fan on demand. On selection will keep the fan On in occupied, standby and override mode, and will activate fan based on demand in unoccupied mode.
	Choices: 1=L-M-H, 2=L-H, 3=L-M-H-A, 4=L-H-A, 5= On-Auto
Auto fan func.	Automatic Mode Fan Function
Default value: AS MV66	Fan Sequence configuration applies to "3 speed" and "ECM" fan type Auto Speed Fan Mode operation for Fan Menu (L-M-H-A) or (L-H-A).
	 AS: In Occupied, Standby and Override modes, the Fan stays ON at low speed even if there is no demand for Heating or Cooling. In Unoccupied mode the Fan turns Off when there is no demand for Heating or Cooling. AS/AD: In any Occupancy mode, the Fan turns Off all speeds when there is no demand for Heating or Cooling.
	Choices: 1=AS, 2=AS/AD

Configuration Parameters Default Value	Significance and Adjustments
Fan type Default value: 3 speed	Fan Type
MV154	Fan type configuration determines the fan control method for the fan coil unit
	3 Speed: Fan control using 3 binary outputs (Low, Medium, High) ECM: Fan control using 0-10 Vdc Modulating output.
	Choices: 1=3 speed, 2=ECM
ECM low volt.	ECM Fan Low Voltage
Default value: 2.2 Vdc AV212	Point only displayed if "Fan type" is set to "ECM"
	Voltage to be applied on 0-10 Vdc output when Low fan speed is selected.
	Range: 2.0 to 4.0 Vdc, using 0.1 Vdc increments
ECM med. volt.	ECM Fan Medium Voltage
Default value: 6.0 Vdc AV213	Point only displayed if "Fan type" is set to "ECM"
	Voltage to be applied on 0-10 Vdc output when Medium fan speed is selected.
	Range: 4.1 to 7.0 Vdc, using 0.1 Vdc increments
ECM high volt.	ECM Fan High Voltage
Default value: 8.6 Vdc AV214	Point only displayed if "Fan type" is set to "ECM"
	Voltage to be applied on 0-10 Vdc output when High fan speed is selected.
	Range: 7.1 to 10.0 Vdc, using 0.1 Vdc increments

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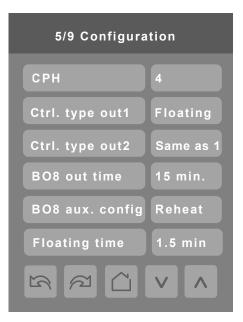
CONFIGURATION 4/9

4/9 Configuration		
Standby time	0.5 hrs	
Unocc. time	0.0 hrs	
Temp. occ. time	2.0 hrs	
Deh. hysteresis	5 %RH	
Deh. max. cool	100%	
Deh. lockout	Enabled	

Configuration Parameters Default Value	Significance and Adjustments
Standby time	Standby Time
Default: 0.5 hours AV67	Time between the moment where the PIR cover detects last movement in the area, and the time which the Room Controller stand-by setpoints become active.
	Note : This parameter is not active when the "Door" function is used (wired or wireless).
	Range: 0.5 to 24.0 hours (0.5 hour increments)
Unocc. time	Unoccupied Time
Default: 0.0 hours AV68	Time between the moment where the Room Controller toggles to stand-by mode, and the time which the Room Controller unoccupied mode and setpoints become active.
	Note: Default value of 0.0 hours disables the unoccupied timer. This prevents the Room Controller from being able to switch from stand-by mode to unoccupied mode when PIR functions are used.
	Range: 0.0 to 24.0 hours (0.5 hour increments)
Temp. occ. time	Temporary Occupancy Time
Default value: 2.0 hours AV62	The time the Room Controller stays in override mode before reverting back to unoccupied mode. When the Room Controller is in unoccupied mode, pressing the on-screen Override icon or closing the contact on UI17, configured as "Remote Override", sets the Room Controller to Override mode for defined time period, and uses the Occupied Cooling and Heating setpoints.
	Range: 0.0 to 24.0 hours

Configuration Parameters Default Value	Significance and Adjustments
Deh. hysteresis	Dehumidification Hysteresis
Default value: 5 %RH AV72	Used only if dehumidification sequence is enabled.
	Range: 2 to 20 %RH
Deh. max. cool.	Dehumidification Max Cooling Limit
Default value: 100% AV73	Maximum cooling valve position when dehumidification is enabled. This can be used to balance smaller reheat loads installed in regards to the capacity of the cooling coil.
	Range: 20 to 100%
Deh. lockout Default value: Disabled MV13	Dehumidification Lockout Enables or disables dehumidification based on central network requirements from the BAS front end.
	Disabled: Dehumidification Not Authorized Enabled: Dehumidification Authorized
	Choices: 1=Disabled, 2=Enabled

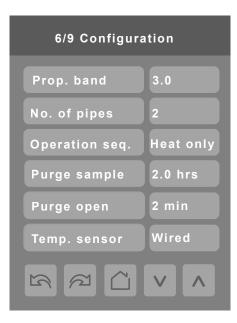
CONFIGURATION 5/9



Configuration Parameters Default Value	Significance and Adjustments
СРН	СРН
Default value: 4 AV84	Cooling Output Cycles Per Hour
	CPH is used to "modulate" On/Off outputs controlling equipment such as valves. When the Room Temperature is within the Proportional Band, the output performs 3 to 8 CPH. A higher CPH represents a higher accuracy of control at the expense of wearing mechanical components faster.
	Range: 3 to 8 CPH
Ctrl. type out1 Default value: Floating MV81	 Control Type Output 1 Defines the type of control output for the FCU cooling valve connected to outputs UO9 and UO11. On/Off: Normally opened or normally closed 24 VAC 2 position valves Floating: Modulating 3 wires control of 24 VAC floating valves 0-10V DA: Direct Acting analog output signal for modulating control of 2-10 Vdc valves. DA = 0 to 100% = 0 to 10 Vdc
	 0-10V RA: Reverse Acting analog output signal for modulating control of 2-10 Vdc valves. RA = 0 to 100% = 10 to 0 Vdc Choices: 1=On/Off, 2=Floating, 3=0-10V DA, 4=0-10V RA

Configuration Parameters Default Value	Significance and Adjustments
Ctrl. type out2	Control Type Output 2
Default value: Same as 1 MV160	Defines the type of control output for the FCU heating valve connected to outputs UO10 and UO12.
	Note : For the ECM fan type, UO10 moves to BO1.
	 On/Off: Normally opened or normally closed 24 VAC 2 position valves Floating: Modulating 3 wires control of 24 VAC floating valves O-10V DA: Direct Acting analog output signal for modulating control of 2-10 Vdc valves. DA = 0 to 100% = 0 to 10 Vdc O-10V RA: Reverse Acting analog output signal for modulating control of 2-10 Vdc valves. RA = 0 to 100% = 10 to 0 Vdc Same as 1: Same value as Control Type Output 1
	Choices : 1=On/Off, 2=Floating, 3=0-10V DA, 4=0-10V RA, 5=Same as 1
BO8 out time	BO8 Aux Output Time Base
Default value: 15 min. MV91	Sets reheat output time base. Valid only if reheat sequences are enabled.
	Choices : 1=15 min., 2=10 sec.
BO8 aux. config BO8 Aux Output Configuration	
Default value: Reheat NO MV92	Aux contact function used for reheat if sequence is set to use BO8 for reheat through network or local. Output directly follows occupancy of Room Controller.
	 Reheat NO: Contact closes on call for reheat, used for Normally Closed Valve or heat relay. Aux NO: Occ or St-By = Contact Closed / Unoccupied = Contact Opened Aux NC: Occ or St-By = Contact Opened / Unoccupied = Contact Closed. Output to follow directly main occupancy and Fan on command. Typically used for 2 position fresh air damper applications. Aux F&NO: Occ or St-By & Fan On = Contact Closed / Unoccupied and Fan On or Off = Contact Opened Aux F&NC: Occ or St-By & Fan On = Contact Opened / Unoccupied and Fan On or Off = Contact Closed Reheat NC: Contact opens on call for reheat, used for Normally Opened Valve.
	Choices : 1=Reheat NO, 2=Aux NO, 3=Aux NC, 4=Aux F&NO, 5=Aux F&NC, 6=Reheat NC
Floating Time	Floating Actuator Timing
Default value: 1.5 min AV90	Floating actuator stroke timing value. Maximum stroke time of floating valve actuator.
	Range: 0.5 to 9.0 minutes (0.5 minute increments)

CONFIGURATION 6/9



	Significance and A	djustments	
Proportional Band			
Adjusts proportional b	and used by Room Cor	ntroller PI control loop.	
Note: Default value of 3 gives satisfactory operation in most normal installation cases. The use of a superior proportional band different than the factory value is normally warranted in applications where Room Controller location is problematic and leads to unwanted cycling of the unit. A typical example is a wall mounted Room Controller installed between return and supply air feeds and is directly influenced by the supply air stream of unit.			
Range: 3.0 to 10.0			
Value	Effective Proportional Band		
	Fahrenheit	Celsius	
3.0	3	1.2	
4.0	4	1.7	
5.0	5	2.2	
6.0	6	2.8	
7.0	7	3.3	
8.0	8	3.9	
9.0	9	5.0	
10.0	10	5.6	
Number of Pipes Defines the type of system connected to outputs UO9 to UO12. 2: A one FCU valve system (heating or cooling) 4: A two FCU valve system (one heating valve and one cooling valve)			
	Adjusts proportional b Note: Default value of cases. The use of a su normally warranted in and leads to unwanted Room Controller install influenced by the supp Range: 3.0 to 10.0 Value 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 Number of Pipes Defines the type of sys 2: A one FCU valve sy	Proportional Band Adjusts proportional band used by Room Cor Note: Default value of 3 gives satisfactory op cases. The use of a superior proportional ban normally warranted in applications where Roo and leads to unwanted cycling of the unit. At Room Controller installed between return and influenced by the supply air stream of unit. Range: 3.0 to 10.0 Value Effective Propriation of the unit. Range: 3.0 to 10.0 Value Effective Propriation of the unit. Range: 3.0 to 10.0 Value Effective Propriation of the unit. Range: 3.0 to 10.0 Value Effective Propriation of the unit. Range: 3.0 to 10.0 3 4.0 4 5.0 5 6.0 6 7.0 7 8.0 8 9.0 9 10.0 10 Number of Pipes Defines the type of system connected to outper 2: A one FCU valve system (heating or cooling 4: A two FCU valve system (one heating valve)	Adjusts proportional band used by Room Controller PI control loop. Note: Default value of 3 gives satisfactory operation in most normal ins cases. The use of a superior proportional band different than the factor normally warranted in applications where Room Controller location is pr and leads to unwanted cycling of the unit. A typical example is a wall m Room Controller installed between return and supply air feeds and is di influenced by the supply air stream of unit. Range: 3.0 to 10.0 Value Effective Proportional Band Image: 3.0 to 10.0 Image: 3.0 to 10.0 Value Effective Proportional Band Image: 3.0 to 10.0 Image: 3.0 to 10.0 Image: 3.0 to

Configuration Parameters Default Value	Significance and Adjustments
Operation seq.	Sequence of Operation
Default: Heat only MV15	Selects the initial sequence of operation required by the installation type and the application.
	Cool only: cooling only Heat only: heating only Cool-rht: cooling with reheat Heat-rht: heating with reheat Cool/heat: cooling and heating Cl/ht-rht: cooling and heating with reheat
	When "Pipe Number" is set to 2 and UI19 is set to COC-NH, COC-NC or COS the "Sequence of operation" is as follows:
	 "Cool only" or "Heat only" will be determined by the UI19 contact status or sensor temperature. For 2-Pipe application (no reheat): set "Sequence of operation" to "Cool only" or "Heat only" For 2-Pipe application (with reheat): set "Sequence of operation" to "Cool-rht" or "Heat-rht"
	Choices: 1=Cool only, 2=Heat only, 3=Cool-rht, 4=Heat-rht, 5=Cool/heat, 6=Cl/ ht-rht
Purge sample Default: 2.0 hrs AV5	Purge Sample Period Time interval between valve samples. Will open valve for a short period adjusted by "Purge open" parameter to sample pipe temperature to decide between heating or cooling mode.
	Adjustable: 0.0 to 4.0 hours (0 hours disables the function)
Purge open	Purge Open
Default: 2 min AV6	Time the valve opens to sample pipe temperature to decide between heating or cooling mode.
	Adjustable: 1 to 3 minutes
Temp. sensor	Room Temperature Sensor
Default value: Wired MSI309, MV145	Sets the source of the indoor room temperature. This parameter allows the user to designate either the Room Controller or any of the paired wireless devices that support temperature to act as the source for the room temperature.
	Wired: sets the thermistor connected to UI20 (RS) as the source to report room temperature.
	Internal: sets the Room Controller as the source for the room temperature. WL 1 to WL 20: sets the selected ZigBee wireless device as the source for the room temperature. Only one device can be selected.
	Note: The Room Controller uses the internal temperature sensor only if the UI20 (RS) terminal is empty. If a valid temperature sensor is connected to the UI20 terminal, the Room Controller will use the sensor as the control point. Disconnecting the sensor, or if the sensor is faulty, the Room Controller will automatically revert to its internal temperature sensor.
	Choices: 1=Wired, 2=Internal, 3= WL IO, 4 to 23=WL 1 to WL 20

CONFIGURATION 7/9



Configuration Parameters Default Value	Significance and Adjustments
Main password Default value: 0 AV56	Main PasswordSets a protective access password to prevent unauthorized access to configuration menu parameters. A default value of "0" will not prompt for a password or lock access to the configuration menu.Range: 0 to 9999.
User password Default value: 0 AV57	User Password Sets a protective access password to prevent User unauthorized access to main screen adjustments. A default value of "0" will not prompt for a password. Range: 0 to 9999.
Schedule menu Default value: Enabled MV73	Schedule Menu Toggles activation of schedule menu direct access. Disabled: Schedule Menu can only be accessed through the Setup Menu screens. Enabled: Schedule Menu is directly accessible from the main screen via a touch in the upper corner. Dis.no.clk: Schedule Menu can only be accessed through the Setup Menu screens. Clock does not show. En.no.clk: Schedule Menu is directly accessible from the main screen via a touch in the upper corner. Clock does not show. En.no.clk: Schedule Menu is directly accessible from the main screen via a touch in the upper corner. Clock does not show. Choices: 1=Disabled, 2=Enabled, 3=Dis.no.clk, 4=En.no.clk

Configuration Parameters Default Value	Significance and Adjustments
USB access	USB Access
Default value: Enabled	Enables/disables USB communication with the Room Controller (RC).
	Enabled : USB communication with the RC is enabled, so the Uploader tool can be used to upgrade firmware, standby images, Lua script etc. Disabled : USB communication with the RC is disabled, so the Uploader tool cannot be used with the device.
	Choices: Enabled, Disabled

NOTICE

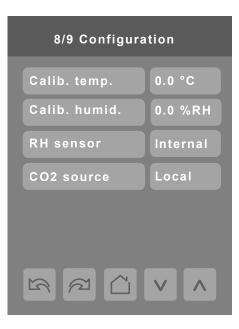
UNAUTHORIZED ACCESS

When commissioning is complete, it is recommended to minimize access points on the Room Controller:

- Disable USB access via the Configuration screen or Commissioning via USB on the Admin tab of the Configuration Web Page
- Enable main password to lock the setup screens
- Enable user password to lock the main screen adjustments (optional)
- Lock the display screen (optional)
- Use strong and unique Wi-Fi Module admin password

Failure to follow these instructions may lead to unauthorized users accessing the Wi-Fi Module or the Room Controller.

CONFIGURATION 8/9



Configuration Parameters Default Value	Significance and Adjustments
Calib. temp.	Calibrate Room Temperature Sensor
Default value: 0°F (0°C) AV7	Room temperature sensor calibration. Offset can be added or subtracted to actual displayed room temperature.
	Range: ± 5.0°F (± 2.5°C)
Calib. humid. Default value: 0.0 %RH	Calibrate Humidity Sensor
AV8	Offset that can be added or subtracted to actual displayed humidity.
	Range: ± 15.0 %RH
RH sensor	Relative Humidity Sensor
Default value: Internal MSI313, MV149	Sets the source of the indoor room humidity. This parameter allows the user to designate either the Room Controller or any of the paired wireless devices that support humidity to act as the source for the room humidity.
	 None: Relative Humidity source disabled. Internal: Sets the Room Controller as the source for the room humidity. WL 1 to WL 20: Sets the selected ZigBee wireless device as the source for the room humidity. Only one device can be selected.
	Choices: 1=None, 2=Internal, 3 to 22=WL 1 to WL 20
CO2 source	CO2 Source
Default value: Local MV150	Sets the source of the indoor CO2. This parameter allows the user to designate either the optional CO2 detection sensor module (VCM8001) or any of the paired wireless devices that support CO2 to act as the source for the room CO2.
	None: CO2 source disabled. Local: Sets the optional CO2 detection sensor module as the source for the room CO2.
	WL 1 to WL 20: Sets the selected ZigBee wireless device as the source for the room CO2. Only one device can be selected.
	Choices: 1=None, 2=Local, 3 to 22=WL 1 to WL 20

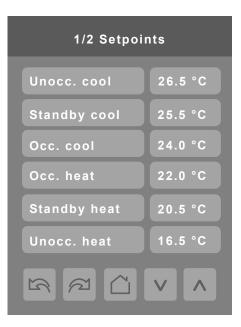
CONFIGURATION 9/9



Configuration Parameters Default Value	Significance and Adjustments	
Erase all?	Erase All	
Default value: No	Accepting Yes for both and then tapping 'Push to accept' returns all values to the factory default settings with the exception of the following: • COM address	
Are you sure?	Network Units	
Default value: No	Network Language	
	Baud Rate	
	BACnet Instance	
	Device Name	
	Screen Contrast	
	Lua Script	
	Note: Node type in ZigBee Network screen returns to default value (Router).	

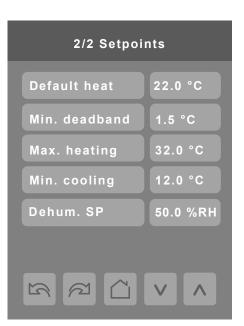
Setpoints Screens

SETPOINTS 1/2



Configuration Parameters Default Value	Significance and Adjustments
Unocc. cool	Unoccupied Cool Setpoint
Default value: 80°F (27°C) AV44	Cooling Temperature setpoint used by the Room Controller when in Unoccupied mode.
	Range: 54 to 100°F (12.0 to 37.5°C)
Standby cool Default value: 78°F (25.5°C) AV42	Standby Cool Setpoint Cooling Temperature setpoint used by the Room Controller when in Standby mode.
	Range: 54 to 100°F (12.0 to 37.5°C)
Occ. cool	Occupied Cool Setpoint
Default value: 75°F (24°C) AV40	Cooling Temperature setpoint used by the Room Controller when in Occupied or Override mode.
	Range: 54 to 100°F (12.0 to 37.5°C)
Occ. heat	Occupied Heat Setpoint
Default value: 72°F (22°C) AV39	Heating Temperature setpoint used by the Room Controller when in Occupied or Override mode.
	Range: 40 to 90°F (4.5 to 32.0°C)
Standby heat	Standby Heat Setpoint
Default value: 69°F (20.5°C) AV41	Heating Temperature setpoint used by the Room Controller when in Standby mode.
	Range: 40 to 90°F (4.5 to 32.0°C)
Unocc. heat	Unoccupied Heat Setpoint
Default value: 62°F (17°C) AV43	Heating Temperature setpoint used by the Room Controller when in Unoccupied mode.
	Range: 40 to 90°F (4.5 to 32.0°C)

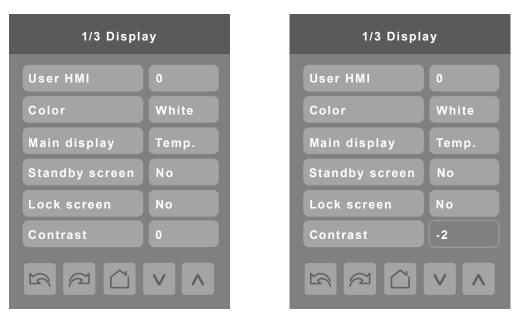
SETPOINTS 2/2



Configuration Parameters Default Value	Significance and Adjustments
Default heat	Default Heating Setpoint
Default value: 72°F (22°C) AV45	Used for hospitality applications in stand-alone mode only to reset the occupied setpoints when a new guest enters the room.
	When the Room Controller is in unoccupied mode, any movement detected by a wired, wireless or local PIR sensor changes the occupancy mode to occupied modes and uses the "Default Heating Setpoint" as the new occupied setpoints.
	NOTE : This functionality is only valid when Stand-by mode = Offset and "Setpoint Func" is set to "Attached".
	Range: 65 to 80°F (18.5 to 26.5°C)
Min. deadband	Minimum Deadband
Default value: 3°F (1.5°C) AV63	Temperature offset between the Cooling and Heating setpoints to ensure that Cooling setpoint is always warmer than the Heating setpoint.
	Cooling setpoint ≥ (Heating setpoint + Deadband)
	Range: 2 to 5°F (1.0 to 2.5°C)
Max. heating	Heating Setpoint Limit
Default value: 90°F (32°C) AV58	Maximum Occupied, Unoccupied, Standby and Override Heating setpoints limit.
	Range: 40 to 90°F (4.5 to 32.0°C)
Min. cooling	Cooling Setpoint Limit
Default value: 54°F (12°C) AV59	Minimum Occupied, Unoccupied, Standby and Override Cooling setpoint limit.
	Range: 54 to 100°F (12.0 to 37.5°C)
Dehum. SP	Dehumidification Setpoint
Default value: 50 %RH AV71	Used only if dehumidification sequence is enabled.
	Range: 30 to 95 %RH

Display Screens

DISPLAY 1/3

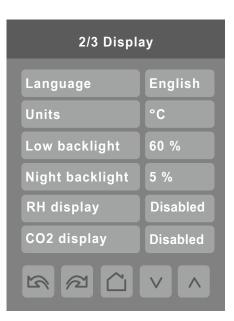


IPS Screen

Configuration Parameters Default Value	Significance and Adjustments	
User HMI Default value: 0	User HMI	
AV2	Sets layout of icons on the home screen for various applications. For more information, refer to "Customized User HMI Display" on page 10.	
	Range: 0 to 12	
Color	HMI Color	
Default value: White MV2	Change background color of the display screen.	
	Choices: 1=White, 2=Green, 3=Blue, 4=Grey, 5=Dark grey, 6=Pink, 7=Purple, 8=Red, 9=Orange, 10=Black	
Main display	Main Display	
Default value: Temp . MV3	Shows temperature or setpoint on main display.	
	Choices: 1=Temp., 2=Setpoint	
Standby screen	Use Standby Screen	
Default value: No MV32	When the device is left unattended for 150 seconds, the standby image will appear. A custom image can be uploaded using the Uploader Tool.	
	No: No Stand by image (Screen dims when no motion is detected)	
	Yes: Stand by Image is displayed after 150 seconds	
	Occ. only : Standby image displays after 150 seconds. Screen turns off after 30 minutes only in occupied or override mode.	
	Screen sav: Standby image displays after 150 seconds. Screen turns off after 30 minutes only in unoccupied or standby mode	
	Choices: 1=No, 2=Yes, 3=Occ. Only, 4=Screen sav	

Configuration Parameters Default Value	Significance and Adjustments
Lock screen Default value: No	Lock Screen
MV148	Prevents the user from accessing the Room Controller until a password is entered. Screen lockout starts 150 seconds after no activity on the Room Controller (when standby image appears).
	This functionality is enabled only if the below conditions are met:
	 Standby image loaded Standby Screen = "Yes" or "Screen Saver" User Password = not 0
	Choices: 1=No, 2=Yes
Contrast Default value: 0	Contrast Control screen contrast and brightness.
	Range: -5 to 5
Contrast Read Only	IPS Screen Contrast
	Starting with firmware revision 2.6, some RCs are shipped with an In-Plane Switching (IPS) screen that does not need contrast adjustment. Thus, the contrast parameter is read only with a default value of -2. To identify an RC with an IPS screen, "IPS" will appear on the RC's box label.
	Note : RCs with an IPS screen cannot be downgraded to a firmware revision older than 2.6.
	Display Default: -2

DISPLAY 2/3



Configuration Parameters Default Value	Significance and Adjustments
Language	Display Language
Default value: English MV4	Select language for main display.
	Choices: 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=Indones., 15=Italian, 16=Norwegian, 17=Polish, 18=Portug., 19=Slovak, 20=Swedish, 21=Turkish, 22=Japanese, 23=Hebrew
Units	Temperature Scale
Default value: °C MV51	Changes the local display units. Refer to Network Units to change the network units broadcasted over the network.
	Choices: 1=°C for SI, 2=°F for Imperial
Low backlight	Low Backlight
Default value: 60% AV3	Sets display backlight intensity. This feature is activated (screen dims) 150 seconds after no activity on the Room Controller.
	Adjustable: 0 to 100%.
Night backlight	Night Backlight
Default value: 5% AV4	Sets backlight display intensity. Parameter only available for models with motion/ light detectors. The screen backlight progressively decreases down to this setting when room is dark.
	This feature is used mostly in hospitality applications when a darker non obtrusive lighting level is desired when room is dark.
	Adjustable: 0 to 100%.

Configuration Parameters Default Value	Significance and Adjustments	
RH display Default value: Disabled	Room Humidity Display	
MV70	Shows humidity level in room in %RH.	
	Disabled: Do not display %RH	
	Enabled: Display %RH	
	Choices: 1= Disabled, 2= Enabled	
CO2 display	CO2 Display	
Default value: Enabled MV146	Shows carbon dioxide level in room in ppm.	
	Disabled : Do not display CO2 level	
	Enabled: Display CO2 level	
	Note : The CO2 value will only be displayed on the Room Controller home screen	
	if an optional CO2 detection sensor module is installed or a Zigbee wireless CO2 device is paired, and if there is a valid value.	
	Choices: 1=Disabled, 2=Enabled	

DISPLAY 3/3



Configuration Parameters Default Value	Significance and Adjustments	
Fan status Default value: Enabled MV180	 Display the Fan Status icon Hides the fan status in the upper right corner of the User HMI display. Applicable to all User HMI configurations where the fan status is shown. Refer to "User HMI Show/Hide Options" on page 13. Choices: 1=Disabled, 2=Enabled 	
System status Default value: Enabled MV181	Display the System Status icon Hides the system status in the upper right corner of the User HMI display. Applicable to all User HMI configurations where the system status is shown. Refer to "User HMI Show/Hide Options" on page 13. Choices: 1=Disabled, 2=Enabled	
Help button Default value: Enabled MV182	Display the Help buttonHides the help button in the lower right corner of the User HMI display.Applicable to all User HMI configurations where the help button is shown. Referto "User HMI Show/Hide Options" on page 13.Choices: 1=Disabled, 2=Enabled	

Service View Screens

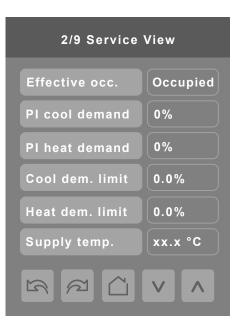
The service view screens show the current status of certain points locally on the Room Controller. These points can also be viewed through the network. Service view values are **Read Only** values but allow a service contractor to visualize the status of key functionality to correctly diagnose operational system issues.

SERVICE VIEW 1/9

1/9 Service View		
Room temp.	xx.x °C	
UI19 changover	xx.x °C	
UI20 temp.	xx.x °C	
Outdoor temp.	xx.x °C	
Room humidity	xx.x %RH	
	V ^	

Configuration Parameters Default Value	Significance and Adjustments	
Room temp.	Room Temperature	
Read Only AV100	Shows the current room temperature from the configured temperature source.	
UI19 changover	U19 Changeover Temperature	
Read Only AV104	Shows the temperature of the changeover sensor connected to UI19 terminal.	
UI20 temp.	UI20 Remote Temperature	
Read Only AV105	Shows the temperature of the sensor connected to UI20 (RS) terminal.	
Outdoor temp.	Outdoor Temperature	
Read Only AV101	Shows the outdoor temperature on the main screen.	
Room humidity	Room Humidity	
Read Only AV103	Shows the current room humidity percentage from the configured humidity source. Refer to RH sensor parameter in "Configuration 8/9" on page 47 to select RH source.	

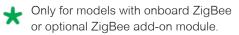
SERVICE VIEW 2/9



Configuration Parameters Default Value	Significance and Adjustments	
Effective occ.	Effective Occupancy	
Read Only MSI33	Shows as occupied, unoccupied, standby or override.	
	Display Readings: 1=Occupied, 2=Unoccupied, 3=Override, 4=Standby	
PI cool demand	PI Cooling Demand	
Read Only AO22	Proportional Integral Cooling Demand	
	Display Readings: 0-100%	
PI heat demand	PI Heating Demand	
Read Only AO21	Proportional Integral Heating Demand	
	Display Readings: 0-100%	
Cool dem. limit	Cooling Demand Limit	
Read Only AV89	Display Readings: 0-100%	
Heat dem. limit	Heating Demand Limit	
Read Only AV88	Display Readings: 0-100%	
Supply temp.	UI22 Supply Temperature	
Read Only AV102	Shows supply air temperature as measured by the sensor.	

SERVICE VIEW 3/9

	3/9 Service	View
	UI16 binary	Not activ.
	UI17 binary	Not activ.
	UI19 binary	Not activ.
* *	Zigb. PIR inst. Zigb. sens. mot.	Off No motion
Bee e.		V A



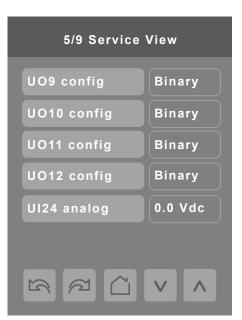
Configuration Parameters Default Value	Significance and Adjustments	
UI16 binary	UI16 Binary Input	
Read Only BI29	Shows status of input.	
	Display Readings: 1=Activated, 2=Not activ.	
UI17 binary	UI17 Binary Input	
Read Only BI30	Shows status of input.	
	Display Readings: 1=Activated, 2=Not activ.	
UI19 binary	UI19 Binary Input	
Read Only BI91	Shows status of input.	
	Display Readings: 1=Activated, 2=Not activ.	
Zigb. PIR inst.	ZigBee PIR Sensor Installed	
Read Only BV200	Shows if ZigBee Passive Infrared Sensor wireless motion sensor is paired to a Room Controller or not.	
	NOTE: This parameter is for ZigBee wireless motion sensors only.	
	Display Readings: 1=Off, 2=On	
Zigb. sens. mot.	ZigBee Sensor Motion	
Read Only BV201	Shows if motion is detected by any of the ZigBee wireless motion sensors.	
	NOTE: This parameter is for ZigBee wireless motion sensors only.	
	Display Readings: 1=No Motion, 2=Motion	

SERVICE VIEW 4/9



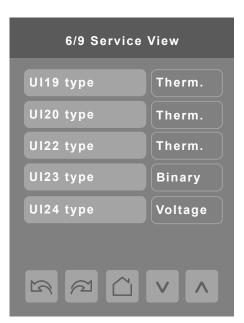
Configuration Parameters Default Value	Significance and Adjustments
Window alarm	Window Alarm
Read Only BV35	Shows On if there is a Window alarm and shows Off if there is no Window alarm. This feature is for both wired and wireless sensors.
	Display Readings: 1=Off, 2=On
Service alarm	Service Alarm
Read Only BV37	Shows On if there is a Service alarm and shows Off if there is no Service alarm.
	Display Readings: 1=Off, 2=On
Filter alarm	Filter Alarm
Read Only BV36	Shows On if there is a Filter alarm and shows Off if there is no Filter alarm.
	Display Readings: 1=Off, 2=On
Recovery	Smart Recovery Status
Read Only BV40	Shows if Smart Recovery is active or not.
	Display Readings: 1=Off, 2=On
Local motion	PIR Local Motion
Read Only BV32	Shows if Motion alarm is active or not.
	Display Readings: 1=No Motion, 2=Motion
Deh. status	Dehumidification Status
Read Only BV38	Shows if dehumidification is active or not.
	Display Readings: 1=Off, 2=On

SERVICE VIEW 5/9



Configuration Parameters Default Value	Significance and Adjustments
UO9 config	UO9 Configuration
Read Only MV96	Display Readings: 1=Analog, 2=Binary, 3=Relay RC, 4=Relay RH
UO10 config	UO10 Configuration
Read Only MV97	Display Readings: 1=Analog, 2=Binary, 3=Relay RC
UO11 config	UO11 Configuration
Read Only MV98	Display Readings: 1=Analog, 2=Binary
UO12 config	UO12 Configuration
Read Only MV99	Display Readings: 1=Analog, 2=Binary
UI24 analog	UI24 Analog Input
Read Only AV107	Shows the analog value of the UI24 generic Universal Input (in Volts).

SERVICE VIEW 6/9

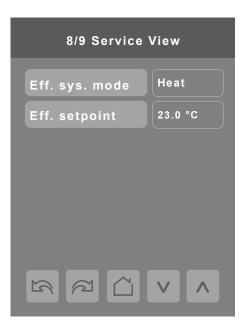


Configuration Parameters Default Value	Significance and Adjustments
UI19 type	UI19 Input Type
Read Only MV140	Display Readings: 1=Therm., 2=Binary, 3=Voltage
UI20 type	UI20 Input Type
Read Only MV141	Display Readings: 1=Therm., 2=Binary, 3=Voltage
UI22 type	UI22 Input Type
Read Only MV142	Display Readings; 1=Therm., 2=Binary, 3=Voltage
UI23 type	UI23 Input Type
Read Only MV143	Display Readings: 1=Therm., 2=Binary, 3=Voltage
UI24 type	UI24 Input Type
Read Only MV144	Display Readings: 1=Therm., 2=Binary, 3=Voltage

SERVICE VIEW 7/9

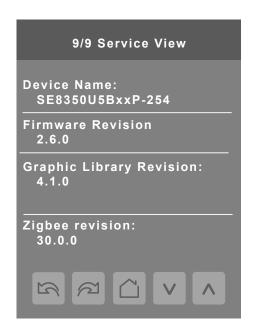


Configuration Parameters Default Value	Significance and Adjustments
CO2 eff. source	CO2 Effective Source
Read Only MSI324	Shows the configured source of the indoor CO2.
	Display Readings : 1=None, 2=Internal, 3=Error, 4=Wired, 5 to 24=WL 1 to WL 20
CO2 err. code	CO2 Error Code
Default value: 0 Read Only	Error code 0x0001 shows if there is an error with the sensor.
CO2 level	CO2 Level
Read Only AV106	Shows CO2 level in PPM.
	Display Readings: 0 to 5000 PPM
CO2 FW rev.	CO2 Firmware Revision
Read Only	Shows the Firmware version of the installed CO2 sensor module.
CO2 S/N	CO2 Serial Number
Read Only	Shows the serial number of the installed CO2 sensor module.



Configuration Parameters Default Value	Significance and Adjustments
Eff. sys. mode	Effective System Mode
Read Only MSI314	Shows the current operating mode of the system. For example, when the system is in Auto mode, this parameter shows whether it is currently heating or cooling.
	Display Readings: 1=Cool, 2=Heat
Eff. setpoint	Effective Setpoint
Read Only Al329	Shows the tempertature setpoint value currently in use by the system.

SERVICE VIEW 9/9



The Device Name (BACnet name) consists of the model number followed by the COM address (MAC address). The BACnet name can be changed via the BACnet front end and the new name appears on the above screen.

For example, when a SE8350U5BxxP Room Controller with a MAC address of 41 is connected to a network, its default Device Name is SE8350U5BxxP-41 and its default BACnet Device ID is 83041.

Firmware Revision shows the Firmware version currently installed on the Room Controller. Upgrading to a newer Firmware version deletes the previous Firmware version, however it is possible to set the Room Controller to an earlier Firmware version with the Uploader Tool.

ZigBee Revision shows the Firmware version of an onboard ZigBee or optional ZigBee add-on module.

Test Outputs Screens TEST OUTPUTS



NOTICE

SAFE OPERATION ENVIRONMENT

Use high caution when manually enabling outputs so as to not cause damage to equipment. It is the responsibility of the Installer or Service Contractor to maintain a safe operation environment during usage.

Failure to follow these instructions can result in equipment damage.

Note 1: The Test Outputs screen allows manual override of specified outputs. After any output state is overridden, the command is cancelled after 1 minute of screen inactivity (auto exit to main screen) or when page is exited.

Note 2: These parameters can also be changed via BACnet and the changed parameter background will turn red to indicate the parameter's value had been overridden. The overridden value remains even if the user exits the main screen

- Note 3: Test Outputs values are LIVE. Any output gets displayed immediately for any value change according to the following:
- 1. If any BACnet priority array (1 16) includes a value, the displayed state background shows in red.
- 2. When toggling a value on the screen, the output directly energizes according to the selected value.
- 3. After any output state gets modified, all overrides get cancelled after 1 minute of button inactivity, or if you scroll from one screen to another screen.

Note 4: Test Outputs UO9 to UO12 are dependent on control type configuration. If mode is set to Floating or On/Off, binary options show. If mode is set to Analog, analog options show.

65

Configuration Parameters Default Value Significance and Adjustments BO4 fan high **BO4 High Speed Fan Output** Default value: Off Choices: 1=Off, 2=On **BO**95 **BO3 Medium Speed Fan Output** BO3 fan med **Default value: Off** Choices: 1=Off, 2=On **BO**96 **BO2** fan low **BO2 Low Speed Fan Output Default value: Off** Choices: 1=Off, 2=On **BO97** BO8 aux. out **BO8 Auxiliary Binary Output Default value: Off** Choices: 1=Off, 2=On **BO**98 **BO1** output **BO1 Binary Output Default value: Off** Choices: 1=Off, 2=On **BO103 UO9** binary **UO9 Binary Output Default value: Off** Choices: 1=Off, 2=On **BO93 UO10** binary **UO10 Binary Output Default value: Off** Choices: 1=Off, 2=On **BO94 UO11** binary **UO11 Binary Output Default value: Off** Choices: 1=Off, 2=On **BO101** U102 binary **UO12 Binary Output Default value: Off** Choices: 1=Off, 2=On BO102 UO9 analog **UO9** Analog Output Default value: 0.0 Vdc Range: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments AO125 UO10 analog **UO10 Analog Output** Default value: 0.0 Vdc Range: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments AO126 UO11 analog **UO11 Analog Output** Default value: 0.0 Vdc Range: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments AO123 **UO12 Analog Output** UO12 analog Default value: 0.0 Vdc Range: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments AO124

Language Selection Screens

LANGUAGE SELECTION

1/4 Language Selection		2/4 Language S	Selection
French	Enabled	Danish	Disabled
Spanish	Enabled	Dutch	Disabled
Chinese	Enabled	Finnish	Disabled
Russian	Enabled	German	Disabled
Arabic	Disabled	Hebrew	Disabled
Czech	Disabled	Hungarian	Disabled
3/4 Language S	Selection	4/4 Language S	Selection
3/4 Language s Indonesian	Selection Disabled	4/4 Language s Slovak	Selection Disabled
Indonesian	Disabled	Slovak	Disabled
Indonesian Italian	Disabled Disabled	Slovak Swedish	Disabled Disabled
Indonesian Italian Japanese	Disabled Disabled Disabled	Slovak Swedish	Disabled Disabled
Indonesian Italian Japanese Norwegian	Disabled Disabled Disabled Disabled	Slovak Swedish	Disabled Disabled

Only English, French, Spanish, Chinese, and Russian are enabled by default and are accessible to users cycling through languages on the display settings menu screen. To change the language selection settings, tap a language on the screen and then use the arrow buttons to disable or enable it.

NOTE: English is always enabled.

Configuration Parameters Default Value	Significance and Adjustments
French	French
Default value: Enabled MV101	Choices: 1=Disabled, 2=Enabled
Spanish	Spanish
Default value: Enabled MV102	Choices: 1=Disabled, 2=Enabled

Default value: Enabled	Significance and Adjustments Chinese
Default value: Enabled	
MV103	Choices: 1=Disabled, 2=Enabled
	Russian
Default value: Enabled MV104	Choices:1=Disabled, 2=Enabled
Arabic Default value: Disabled	Arabic
MV120	Choices: 1=Disabled, 2=Enabled
Czech Default value: Disabled	Czech
MV122	Choices: 1=Disabled, 2=Enabled
	Danish
Default value: Disabled MV123	Choices: 1=Disabled, 2=Enabled
	Dutch
Default value: Disabled MV124	Choices: 1=Disabled, 2=Enabled
	Finnish
Default value: Disabled MV125	Choices:1=Disabled, 2=Enabled
German Default value: Disabled	German
MV126	Choices: 1=Disabled, 2=Enabled
Hebrew Default value: Disabled	Hebrew
MV156	Choices: 1=Disabled, 2=Enabled
Hungarian Default value: Disabled	Hungarian
MV127	Choices: 1=Disabled, 2=Enabled
Indonesian Default value: Disabled	Indonesian
MV128	Choices: 1=Disabled, 2=Enabled
Italian Default value: Disabled	Italian
MV129	Choices: 1=Disabled, 2=Enabled
Japanese Default value: Disabled	Japanese
MV155	Choices: 1=Disabled, 2=Enabled
Norwegian Default value: Disabled	Norwegian
MV130	Choices: 1=Disabled, 2=Enabled
Polish Default value: Disabled	Polish
MV131	Choices: 1=Disabled, 2=Enabled
Portuguese Default value: Disabled	Portuguese
MV132	Choices: 1=Disabled, 2=Enabled
Slovak Default value: Disabled	Slovak
MV133	Choices: 1=Disabled, 2=Enabled
Swedish Default value: Disabled	Swedish
MV134	Choices: 1=Disabled, 2=Enabled
	Turkish
Default value: Disabled MV135	Choices: 1=Disabled, 2=Enabled

Clock - Schedule Screens

SCHEDULE MENU

Schedule Menu	
Clock •	Clock settings
Schedule •	Schedule settings
Options •	——— Options settings

Note: The Clock - Schedule Menu screen is directly accessible from the main setup screen.

CLOCK

The Clock settings screen allows the device's internal time settings to be changed (current time, day, month, year and weekday options), as well as to choose between a 12 hour AM / PM display or 24 hour display.

1/2 Clock	
Time format	AM-PM
Time	:
Year	2019
Month	Jan.
Day	01
Weekday	Tuesday

2/2 Clock		
Time source	Local	

Configuration Parameters Default Value	Significance and Adjustments
Time format	Time Format
Default value: AM-PM MV5	Current time display format. Choice between 12 hour (AM - PM) time format or 24 hour time format.
	Note : Changing the value of this parameter automatically changes the format of the displayed value of the time parameter.
	Choices: 1=AM-PM, 2=24 Hours
Time Default value: current time at power up	Time
	Standard time display, 12 hour AM-PM or 24 hour format determined by the Time Format parameter value.
Year Default value: 2019	Year
	Current year
	Range: 2000 - 2100
Month	Month
Default value: Jan.	Current month
	Range: Jan Dec.
Day Default value: 1	Date
	Current date
	Range: 1 - 31
Weekday	Current Day
Default value: Monday Read Only	Automatically set based on data received from Year/Month parameters.
	Range: Monday - Sunday
Time source	Time Source
Default value: None Read Only	Shows the source that most recently set the time on the Room Controller.
MSI325	Display Readings : 1=None, 2=Local, 3=BACnet, 4=NTP, 5=Cloud

SCHEDULE

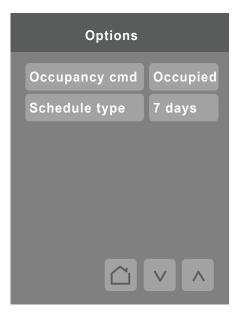
There are seven different schedule setting screens, one for each day of the week. Each day can have different scheduled events where the Room Controller is set to Occupied status or back to Unoccupied status. The Room Controller can use the appropriate setpoints (back and forth) up to three times per day.

****day Schedule 。	Identified by day of the week (Sunday through Saturday)
Occupied 1:	
Unoccupied 1:	
Occupied 2:	
Unoccupied 2:	
Occupied 3:	
Unoccupied 3:	

Configuration Parameters Default Value	Significance and Adjustments
Occupied 1 - 3 Default value: None	Occupied 1 - 3 Defines a time when the Room Controller is automatically set to use the Occupied setpoint.
	Note: There are 3 separate Occupied parameter entries Range: 00:00 - 23:59
Unoccupied 1 - 3 Default value: None	Unoccupied 1 - 3 Defines a time when the Room Controller is automatically set to use the Unoccupied setpoint.
	Note: There are 3 separate Occupied parameter entries Range: 00:00 - 23:59

OPTIONS

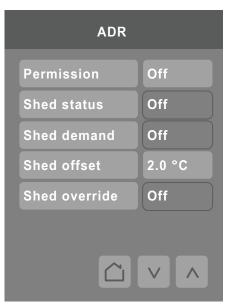
The options settings allow the Room Controller to function in Occupied or Unoccupied mode following a defined Schedule type set by the user.



Configuration Parameters Default Value	Significance and Adjustments
Occupancy cmd Default value: Occupied MV10	Occupancy Command Loc occ: occupancy is determined by local sequences (either PIR or schedule, as configured under Occ. source). Occupied: force occupied mode. Unocc: force unoccupied mode. Choices: 1=Loc occ, 2=Occupied, 3=Unocc.
Schedule type Default value: 7 days MV136	 Schedule Type 7 days: Independent scheduling identified by day of the week (Sunday - Saturday) 5+1+1 days: Weekdays scheduling and Independent Weekend scheduling identified as Weekdays, Saturday and Sunday 5+2 days: Weekdays scheduling and Weekend scheduling identified as Weekdays and Weekend Choices: 1=7 days, 2=5+2 days, 3=5+1+1 day

Automatic Demand Response (ADR) Screen

Automatic Demand Response (ADR) feature is used to reduce energy load when electric grid contingencies threaten supplydemand balance.



Configuration Parameters Default Value	Significance and Adjustments
Permission	ADR Permission
Default value: Off MV152	Used to permit the ADR to be applicable or not to change the Room Controller setpoints setting or not.
	Off: The Load Shedding Demand will not be permitted. On : The Load Shedding Demand will be permitted.
	Choices: 1=Off, 2=On
Shed status Default value: Off	Load Shedding Status
Read Only BV49	Displays the status of the Load Shedding Demand, whether it is active (On) or not (Off).
	The Load Shedding status is On when the Permission is On, Shed demand is On, and the Shed Override is Off.
	Off: Load Shedding Demand is not activated. On: Load Shedding Demand is activated.
	Display Readings: 1=Off, 2=On
Shed demand	Load Shedding Demand
Default value: Off Read Only BV48	Sets the request to initiate Load Shedding. This demand can only be set through BACnet by the local Utility company.
	Off: No Load Shedding Demand is received or the Shedding demand is
	disabled. On: Received the Load Shedding Demand or received the signal to activate Load shedding.
	Display Readings: 1=Off, 2=On

Configuration Parameters Default Value	Significance and Adjustments
Shed offset	Load Shedding Offset
Default value: 4°F (2°C) AV211	Used to change the effective setpoints in occupied, standby and unoccupied modes.
	For example, when "Shed status" is On and Room Controller is in occupied mode:
	The cooling setpoint is calculated as follows: Occupied cooling setpoint = occupied cooling setpoint + Load shedding offset.
	The heating setpoint is calculated as follows: Occupied heating setpoint = occupied heating setpoint - Load shedding offset.
	Choices: 4°F to 10°F (2°C to 5.5°C)
Shed override	Load Shedding Override
Default value: Off Read Only BV50	Displays whether the user disabled the ADR request by the utility company. When the demand shed is applied, the user can override the ADR settings from its original setpoints settings.
	Off : Allows shed load demand request from utility company (setpoint will change according to shed offset)
	On : Rejects or cancels shed load demand request from utility company (setpoints remain the same).
	Display Readings : 1=Off, 2=On

Wireless Screens

WIRELESS MENU

The Wireless screen shows only in models with onboard ZigBee or optional ZigBee add-on module.



ECOSYSTEM SETTINGS

The Ecosystem Settings screens show the network status, the number of paired devices as well as information for each paired device. A maximum of 20 ZigBee wireless devices can be paired to each Room Controller. Tap the forward arrow to obtain information on each paired ZigBee device.

Ecosystem Settings	
Network status	Not det.
Permit join	Off
Permit timeout	0 min
Paired devices	0

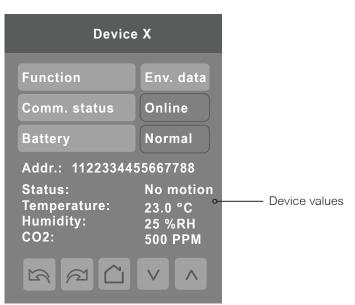
Configuration Parameters Default Value	Significance and Adjustments
Network status	ZigBee Network Status
Default value: Not det. Read Only MSI2	Shows current status of ZigBee network.
1012	Not det.: Zigbee module not detected Pwr on: ZigBee module detected but not configured No NWK: ZigBee configured but no network joined Joined: ZigBee network joined
	Online: Communicating (Exchanging data)
	Display Readings: 1=Not det., 2=Pwr on, 3=No NWK, 4=Joined, 5=Online
Permit join Default value: Off	Permit Join
	Setting to 'On' allows the Room Controller to pair with a ZigBee device. Value must be set to 'On' to pair with initial device and then set to 'Off' if user wants to prevent additional ZigBee devices from joining the network. Changing this value to "Off" on the Coordinator prevents any new ZigBee devices from joining the network.
	Permit join can be On/Off when the Room Controller is a coordinator, however the parameter is read only when the Room Controller is a router. Permit join stays On for 3 hours.
	On : Allows Room Controller to pair with ZigBee wireless device Off: Prevents Room Controller from pairing with ZigBee wireless device, or prevent any additional ZigBee devices from joining network.
	Choices: On or Off

Configuration Parameters Default Value	Significance and Adjustments
Permit timeout Default value: 0 Read Only	Permit Join TimeoutAllows ZigBee devices to join the Coordinator Room Controller for 180 minutes from the moment it is set to ON. Once the timer elapses, no devices will be able to join the network.NOTE: Permit Join parameter must be set to 'On' to enable this feature.
	Range: 0 or 180 minutes
Paired devices Default value: 0 Read Only Al330	Paired ZigBee Devices Shows the number of ZigBee wireless devices currently paired with the Room Controller. A maximum of 20 ZigBee wireless devices can be paired with each Room Controller.
	Display Readings: 0 to 20 devices

DEVICE 1-20

This screen is a subset of the Ecosystems screen and shows data for each paired ZigBee device. The Status, Temperature, Humidity and CO2 values will only be visible if they are supported by the device.

NOTE: Device X pages will only show up once devices have been paired.



Configuration Parameters Default Value	Significance and Adjustments
Function	Wireless Device X - Function
Default value: None MV210-400	Shows the function of the installed ZigBee wireless device.
	None: No status reported to Room Controller
	Window: Window sensor installed
	Door: Door sensor installed
	Motion: Device set to detect motion
	Env. data: Temperature, Humidity, CO2 sensor installed
	Remove: Removes device from Device list
	Water: Water leak sensor installed
	Refrig.: Refrigerator temperature sensor installed
	Freezer: Freezer temperature sensor installed
	Choices : 1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer

7	7

Configuration Parameters Default Value	Significance and Adjustments
Comm. status	Wireless Device X - Communication Status
Default value: Not paired Read Only	Shows if device is communicating with Room Controller
MSI212-402	Not paired: Device not paired Online: Device paired and online
	Invalid : Device was paired and Room controller detected a communication error
	(selected function does not match paired sensor functionality).
	Offline: Device paired but offline
	Display Readings: 1=Not paired, 2=Online, 3=Invalid, 4=Offline
Battery	Wireless Device X - Battery
Default value: None Read Only	Shows current status of battery in wireless device.
MSI211-401	
	Display Readings: 1=None, 2=Normal, 3=Low
Addr. Read Only	Wireless Device X - Address
CSV11-30	Shows unique IEEE (MAC) address of ZigBee wireless device
Status Default value: None	Wireless Device X - Sensor Type Wireless Device X - Status
Read Only	
Door status: BV1 Window status: BV3	Shows the ZigBee wireless device status. Device status and values will be different depending on the type of device:
Water status: BV46	Door Contact Status: 1=Closed, 2=Opened
Sensor type: MSI180-199	Window Contact Status: 1=Closed, 2=Opened
Status: MSI210-400	Motion Sensor: No Motion, Motion
	Water Leak Sensor Status: 1=Normal, 2=Leak
	Display Readings : Sensor Type : 1=None, 2=Unknown, 3=Motion, 4=Contact, 5=Water, 6=Temp.,
	7=Temp./RH, 8=CO2
	Status : 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak
Temperature	Wireless Device X - Temperature
Read Only Al315-324, 355-364	Range : -40 to 185 °F (-40 to 85 °C)
Humidity	Wireless Device X - Humidity
Read Only Al365-384	Percent releative humidity
	Range: 0 to 100 %
CO2	Wireless Device X - CO2
Read Only Al385-404	Parts per million
	Range: 0 to 5000 PPM

DEVICE GROUPS

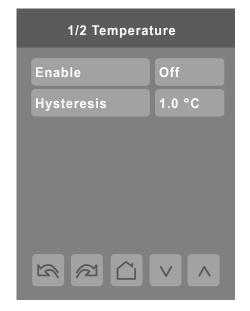
The Device Groups screen shows if a particular ZigBee wireless sensor is paired with the Room Controller.



Configuration Parameters Default Value	Significance and Adjustments
Door installed	Door Contact Installed
Default value: No Read Only	Shows if Door sensor is installed.
BV2	Display Readings: 1=No, 2=Yes
Win. installed	Window Contact Installed
Default value: No Read Only	Shows if Window sensor is installed.
BV4	Display Readings: 1=No, 2=Yes
Water installed	Water Leak Sensor Installed
Default value: No Read Only	Shows if Water Leak sensor is installed.
BV45	Display Readings: 1=No, 2=Yes

TEMPERATURE ALARMS CONFIGURATION

The Temperature Alarms Configuration screens show the values that trigger an alarm only for ZigBee wireless sensors with temperature measurement.

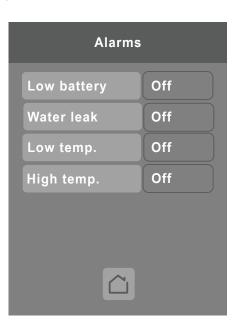


	4.5 °C
Pofria high	
Kenng. mgn	4.5 °C
Refrig. low	0.0 °C
Freezer high	-17.5 °C

Configuration Parameters Default Value	Significance and Adjustments
Enable Default value: Off MV151	Temperature Alarm Enabled Enables wireless device to alert Room Controller if temperature value reaches defined value in a particular paired device. Choices: 1=Off, 2=On
Hysteresis Default value: 2.0 °F (1.0 °C) AV210	Choices: 0 to 10 °F (0 to 5.5 °C)
Ambient high Default value: 86.0 °F (30.0 °C) AV275	Ambient High Temperature ThresholdRange: 32 to 122 °F (0 to 50 °C)
Ambient low Default value: 40.0 °F (4.0 °C) AV209	Ambient Low Temperature ThresholdRange: 32 to 50 °F (0 to 10 °C)
Refrig. high Default value: 40.0 °F (4.0 °C) AV276	Refrigeration High Temperature Threshold (only present if a refrigeration sensor is installed) Range: 32 to 60 °F (0 to 16 °C)
Refrig. low Default value: 32.0 °F (0.0 °C) AV277	Refrigeration Low Temperature Threshold(only present if a refrigeration sensor is installed)Range: 32 to 50 °F (0 to 10 °C)
Freezer high Default value: 0.0 °F (-18.0 °C) AV278	Freezer High Temperature Threshold (only present if a freezer sensor is installed) Range: -40 to 32 °F (-40 to 0 °C)

ALARMS

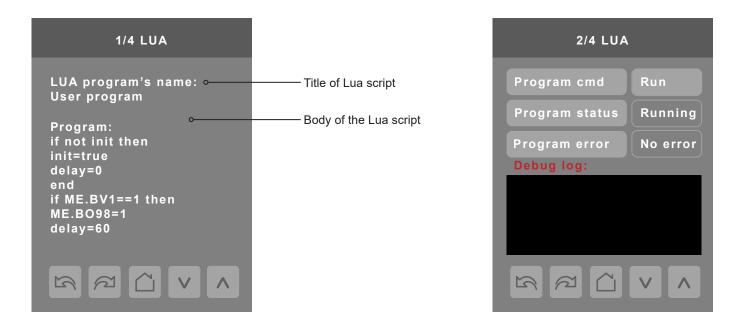
The Alarms screen shows data for paired Zigbee wireless devices.



Configuration Parameters Default Value	Significance and Adjustments
Low battery Default value: Off Read Only BV5	 Low Battery Alarm Shows if any wireless paired device has a low battery status (On) or no paired device has low battery (Off). Display Readings: 1=Off, 2=On
Water leak Default value: Off Read Only BV44	Water Leak Shows if any water sensor paired device has detected a water leak (On) or no leak detected in any of the water sensor paired devices (Off). Display Readings: 1=Off, 2=On
Low temp. Default value: Off Read Only BV47	Low Temperature Shows if any temperature sensor paired device has detected a low temperature (On) or no low temperature detected in any of the temperature sensor paired devices (Off). Display Readings: 1=Off, 2=On
High temp. Default value: Off Read Only BV53	High Temperature Shows if any temperature sensor paired device has detected a high temperature (On) or no high temperature detected in any of the temperature sensor paired devices (Off). Display Readings: 1=Off, 2=On

Lua Screens

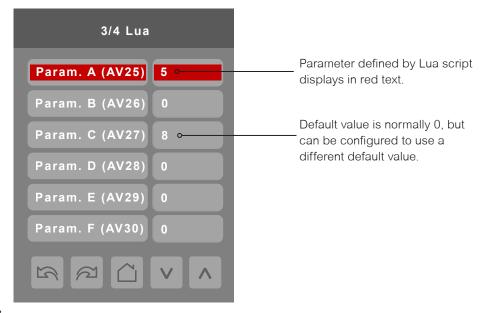
The Lua settings screens show information about any custom Lua script uploaded to the Room Controller. Lua scripts are not programmable on the Room Controllers. Lua scripts can be uploaded to the Room Controller via the Uploader Tool or via BACnet.



Configuration Parameters Default Value	Significance and Adjustments	
Program cmd Default value: Run	Program Command Run: Lua script activated and runs continuously until deactivated Stop: Lua script deactivated Choices: Stop or Run	
Program status Default value: Idle Read Only	Program Status Running: Lua script active Halted: Lua script stopped and not active Idle: Lua script is running but not currently performing any actions Waiting: Lua script running and waiting for a response Uploading: Lua script currently unloading from Room Controller Loading: Lua script currently loading to Room Controller Display Readings: Idle, Loading, Running, Waiting, Halted, Unloading	
Program error Default value: No error Read Only	Program Error No error: No errors in Lua script Syntax: Syntax error in Lua script detected Runtime: Runtime error occurred while running Lua script Memory: Device has run out of memory for the script Display Readings: No error, Syntax, Runtime, Memory	

LUA GENERIC PARAMETERS

The Lua settings include twelve generic parameters that do not have a specific function or pre-configured functions. These parameters can be used in custom Lua scripts to store a value. They are also user configurable in their default state, but when assigned a value via a Lua script or via BACnet (Priority 1-16), they become read only (not configurable locally by the user) and the display color of the parameter changes to red. These parameters can also be configured via ZigBee, however they can still be modified locally by the user.



Configuration Parameters Default Value	Significance and Adjustments		
Parameter A (AV25)	Lua Parameter A (AV25)		
Default value: 0 AV25	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter B (AV26)	Lua Parameter B (AV26)		
Default value: 0 AV26	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter C (AV27) Default value: 0	Lua Parameter C (AV27)		
AV27	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter D (AV28)	Lua Parameter D (AV28)		
Default value: 0 AV28	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter E (AV29)	Lua Parameter E (AV29)		
Default value: 0 AV29	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter F (AV30)	Lua Parameter F (AV30)		
Default value: 0 AV30	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter G (AV225)	Lua Parameter G (AV225)		
Default value: 0 AV225	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter H (AV226)	Lua Parameter H (AV226)		
Default value: 0 AV226	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter I (AV227)	Lua Parameter I (AV227)		
Default value: 0 AV227	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		
Parameter J (AV228)	Lua Parameter J (AV228)		
Default value: 0 AV228	The value of this parameter depends on what is assigned to it from a BAS or Lua script.		

Configuration Parameters Default Value	Significance and Adjustments	
Parameter K (AV229)	Lua Parameter K (AV229)	
Default value: 0 AV229	The value of this parameter depends on what is assigned to it from a BAS or Lua script.	
Parameter L (AV230)	Lua Parameter L (AV230)	
Default value: 0 AV230	The value of this parameter depends on what is assigned to it from a BAS or Lua script.	

SECTION 4

Appendix

Appendix A: Terminal Correspondence

The terminals of a SE8350 are identified differently and have a wider range of possible functions compared to those of any of the SE7300 series Room Controllers. Nonetheless, there is a direct correspondence of functions between the terminals of the SE7300 series and the SE8350 series. Consult the table below to verify the appropriate terminal when replacing a SE7300 Room Controller with a SE8350 Room Controller.

SE7300		SE8350	
Terminal name	Terminal ID	Terminal name	Terminal ID
Binary Input 1	BI1	Universal Input 16	UI16
Binary Input 2	BI2	Universal Input 17	UI17
Universal Input 3	UI3	Universal Input 19	UI19
Sensor Common	Scom	Terminal 18 Common	СОМ
Remote Sensor	RS	Universal Input 20	UI20 - RS
Sensor Common	Scom	Terminal 21 Common	COM

Technical Support



For any issues with SmartStruxure Solution or SmartStruxure Lite, contact Schneider Electric Technical Support according to your region.

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