SpaceLogic™ Room Controllers

SER8350 User Interface Guide Line Voltage Fan Coil Unit (FCU) 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.

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.

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

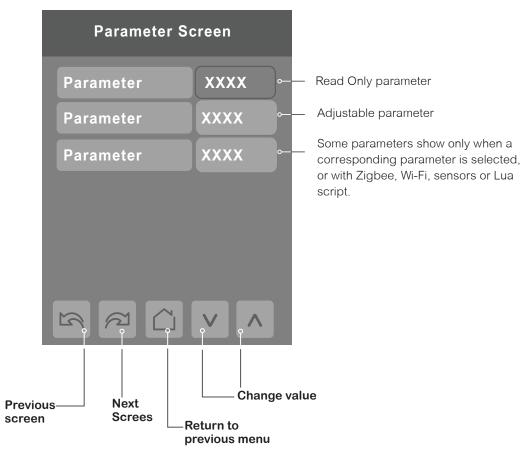
Introduction

This guide shows the user interface instructions for the SpaceLogic SER8350 Series Room Controller (RC) firmware revision 2.6 for users and integrators.

User and Integrator Screens

The SpaceLogic SER8350 Room Controller has dynamic screens that show adjustable parameters and read-only status information. Some screens and parameters show only when a corresponding parameter is selected. Some screens show only 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 shows only 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

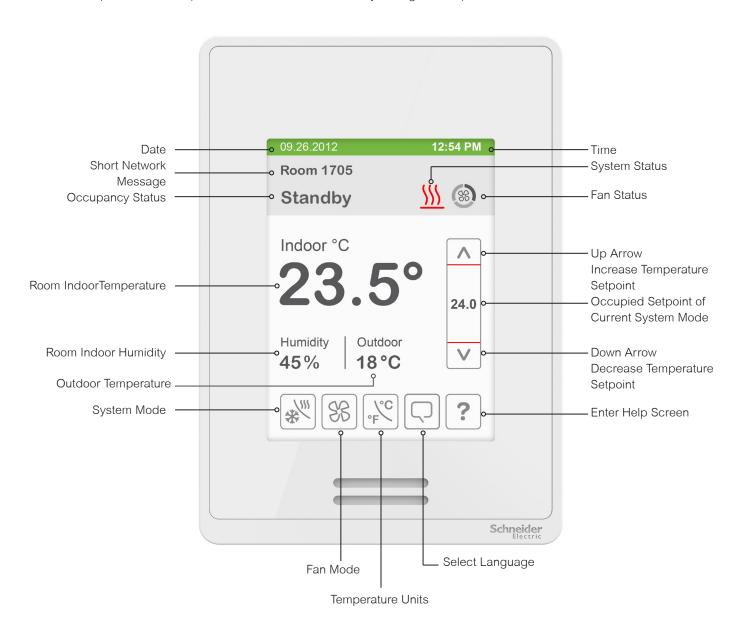
To simplify cross-referencing between the User Interface Guide and the <u>BACnet Integration Guide</u>, BACnet object properties are included in the Parameter Details tables as follows:

- · Object name.
- Instance number and object type prefix. Object type prefixes are described as follows:
 - AI 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 Default value: Off	Fan Speed Status • Object name
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.



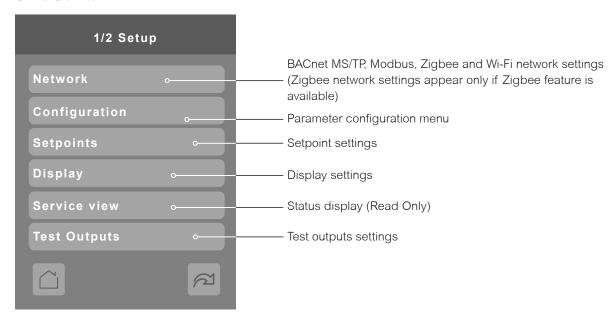
Enter Setup Screen



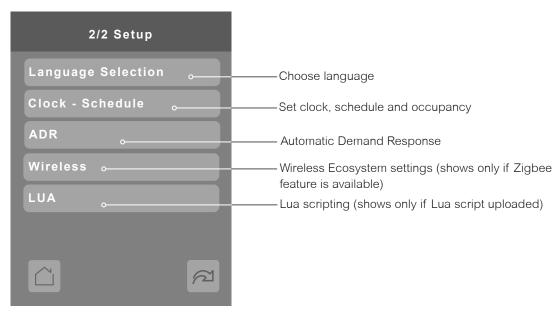
Touch and hold this point for 3 seconds to enter setup mode

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



SETUP 2/2



SECTION 2

User HMI for Hospitality

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

Hospitality 0



- · Setpoint adjustment
- · System mode setting
- · Fan mode setting
- Local unit scale adjustment
- · Local user language
- User help menu

Hospitality 1



- Setpoint adjustment
- · System mode setting
- Fan mode setting
- User help menu

Hospitality 2



- · Setpoint adjustment
- Local unit scale adjustment
- · Local user language
- User help menu

Hospitality 3



- · Setpoint adjustment
- User help menu

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

Hospitality 4

Room 1705
Standby

Indoor °C

23.5°

 Fully locked interface with no user settings Hospitality 5



- Setpoint adjustment
- · System mode setting
- User help menu

Hospitality 6



- · Setpoint adjustment
- · System mode setting
- Fan mode setting
- Local unit scale adjustment
- User help menu

User HMI for Commercial

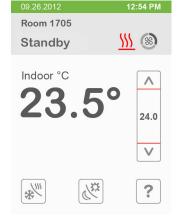
Commercial 7



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







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

Commercial 8



- · Setpoint adjustment
- Unoccupied mode override
- · Local user language

- · User help menu

Commercial 12



- · Offset setpoints adjustment
- · System mode setting
- · Local 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.

Commercial 9



- · Setpoint adjustment
- Unoccupied mode override
- · User help menu

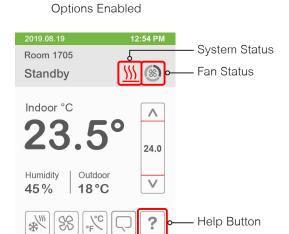
Commercial 10



 Unoccupied mode override

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 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 al-
	lowed.
	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.
	rignored. Dendinianication is allowed.
	Choices: 1=Off, 2=Auto, 3=Cool, 4=Heat

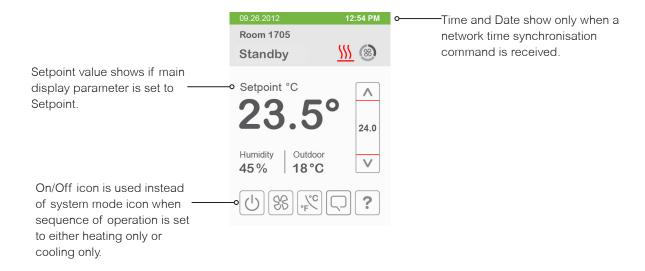
Fan Mode Settings



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

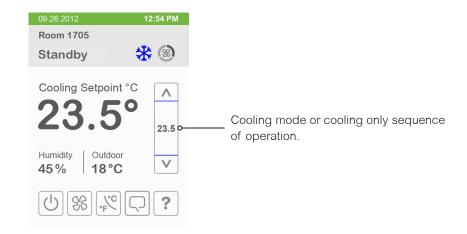
Heating Only Configuration



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.

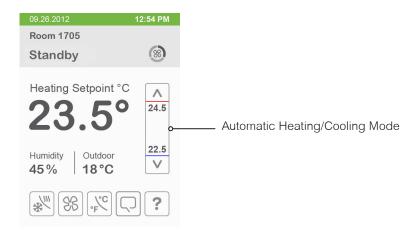


Setpoint Adjustment for Automatic Mode

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 Display 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.







Customizable Color Options

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









White

Green

Blue

Grey









Dark Grey

Pink

Purple

Red







Black

SECTION 3

Network Screens

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

NOTICE

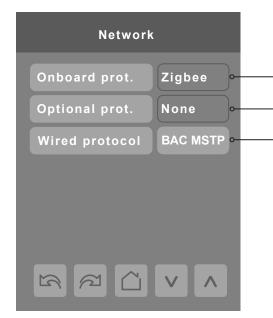
UPGRADE OF ZIGBEE FIRMWARE REVISION 24 TO 30

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.



Onboard Zigbee detection (Read Only)

Type of expansion module: Zigbee, IP or BAC. IP (Read Only)

Wired protocol (BACnet MS/TP or Modbus)

NOTICE

DISABLED WIRED NETWORK PROTOCOL

The RS-485 transceiver connected to pins 13 and 14 is not installed on Room Controllers with part numbers SER8350A5N11, thus disabling the wired network protocol (BACnet MS/TP or Modbus). The network screens and the optional Wi-Fi protocol BACnet/IP will still operate normally.

When ordering, make sure the Room Controller specifications comply with your system design.

Configuration Parameters Default Value	Significance and Adjustments
Onboard prot.	Onboard Protocol
Read Only	Onboard Zigbee detection
	Display Readings: None or Zigbee
Optional prot.	Optional Protocol
Read Only	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

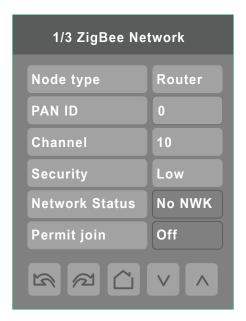
ZIGBEE NETWORK 1/3

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.

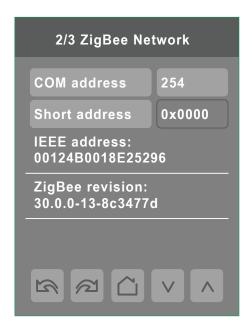
Note: Before pairing any Zigbee devices, the network must first be created by the Coordinator.



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 specific 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 compatible 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 device 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

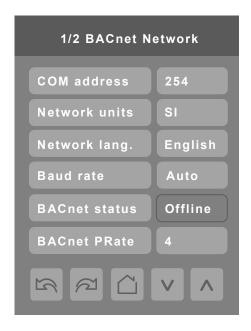
The 3/3 Zigbee Network screen shows only when the security level is set to high.



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 Read Only	Install Code
	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 transferring 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.



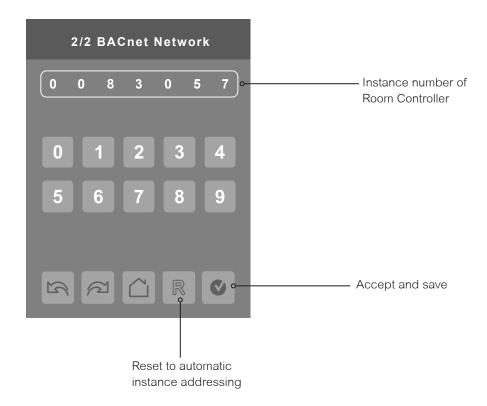
Configuration Parameters Default Value	Significance and Adjustments
COM address	COM Address
Default value: 254 AV10	Room Controller networking address.
	Default value of 254 disables BACnet communication for the Room Controller.
	Range : 0 to 254
Network units	Network Units
Default value: SI MV6	Network units transmitted over the BACnet network.
	NOTE: Use the Temperature scale parameter to change the display units locally on the Room Controller.
	Imperial: Network units shown as Imperial units. SI: Network units shown as International Metric 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 SER8350A5BxxP with a COM address of 57 is generated as "83057".

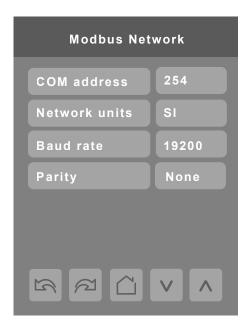
The default instance number appears first. To change the instance number, use number pad and press Accept and save.

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



MODBUS NETWORK SETTINGS

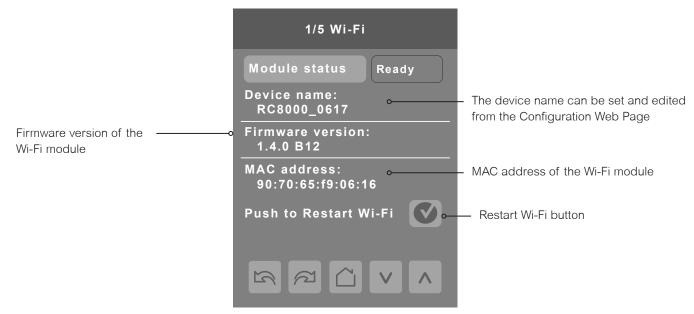
Modbus network screen shows when Modbus is selected in wired protocol parameter.



Configuration Parameters Default Value	Significance and Adjustments
Comm address	Communication Address
Default value: 254	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	Measurement Units
Default value: SI	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	Modbus Baud Rate
Default value: 19200	Automatically detects Modbus baud rate.
	Choices : 57600, 38400, 19200, 9600 and 4800
Parity	Parity
Default value: Even	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.

Wi-Fi 2/5

The Password needed to connect to the Access Point - Wi-Fi network

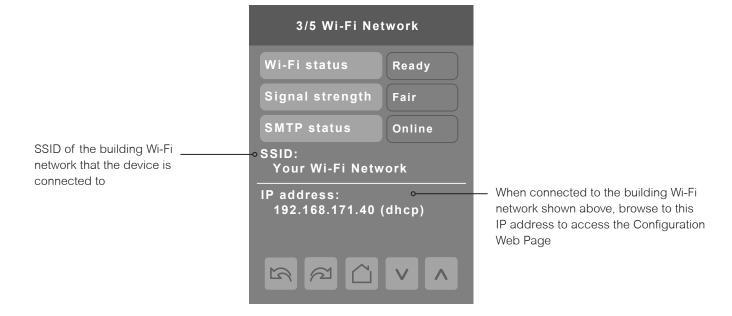


The SSID of the Access Point created by the Wi-Fi module. You can add your device to this network to access the Configuration Web Page

When connected to the Access Point, browse to this IP address to access the Configuration Web Page

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

Wi-Fi 3/5



Configuration Parameters Default Value	Significance and Adjustments
Wi-Fi status Read Only	Wi-Fi Status
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

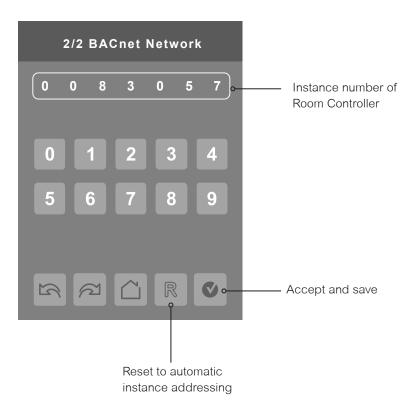


Configuration Parameters Default Value	Significance and Adjustments
Factory reset? Default value: No	Erase All
	Accepting Yes for both and then tapping 'Push to accept' will restore the Wi-Fi module to the factory settings, erase all configuration data and revert the Wi-Fi
Are you sure?	Module Firmware to the factory firmware version.
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. 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
Port	Port
Default value: 0 Read Only	The unique short address of Wi-Fi BACnet IP

BACNET INSTANCE NUMBER

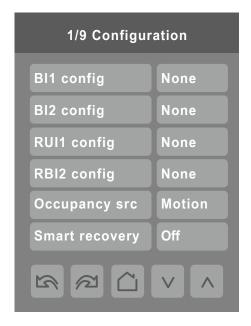
The default BACnet instance number is generated by the model number and COM address of the Room Controller. For example, the instance number of a SER8350A5BxxP with a COM address of 57 is generated as "83057".

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

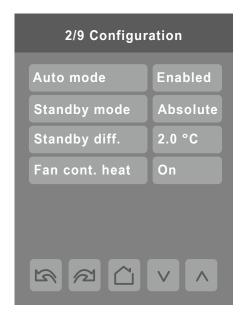
CONFIGURATION 1/9



Configuration Parameters Default Value	Significance and Adjustments
BI1 config	BI1 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
BI2 config	BI2 Configuration
Default value: None MV47	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 Override: If the local PIR is used in this application, "Occupancy Command" (refer to "Options" on page 69) must be set to "Local Occupancy" and "Occupancy Source" (refer to page 34) must be set to "Motion". Choices: 1=None, 2=Door Dry, 3=Override

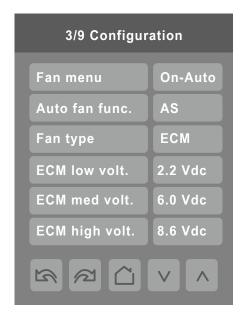
Configuration Parameters Default Value	Significance and Adjustments
RUI1 config	RUI1 Configuration
Default value: None MV82	None: No function associated with the input. Input can be used for remote network monitoring. Filter: "Filter alarm" shows on Room Controller screen when input is energized. Service: "Service alarm" shows on Room Controller screen when input is energized. 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.
RBI2 config	Choices: 1=None, 2=Filter, 3=Service, 4=COC/NH, 5=COC/NC, 6=COS RBI2 Configuration
Default value: None MV83	None: No function associated with input. Input can be used for remote network monitoring. Filter: "Filter alarm" shows on Room Controller screen when input is energized. Service: "Service alarm" shows on Room Controller screen when input is energized. Choices: 1=None, 2=Filter, 3=Service
Occupancy src	Occupancy Source
Default value: Motion MV110	Motion: Occupancy status received from motion sensor. Schedule: Occupancy status 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	Enable Smart Recovery
Default value: Off MV71	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 BI1 is configured to remote NSB. Choices: 1=Off, 2=On

CONFIGURATION 2/9



Configuration Parameters Default Value	Significance and Adjustments
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
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	On: Heat source is inside the FCU, room controller activates the fan upon a call for
	heat. Off-Auto: Heat source is outside the FCU, room controller does not enable the fan upon a call for Heat if "Fan Mode" is set to "Auto". If "Fan Mode" is set to L, M or H room controller will activate selected speed, even upon a call for Heat. Off-All: Heat source is outside the FCU, room controller will force the fan off upon a call for Heat
	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	Fan Type
Default value: 3 speed 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 control" is set to "ECM"
	Voltage to be applied on 0-10V 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 control" is set to "ECM"
	Voltage to be applied on 0-10V output when Low 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 control" is set to "ECM"
	Voltage to be applied on 0-10V output when Low fan speed is selected.
	Range: 7.1 to 10.0 Vdc, using 0.1 Vdc increments

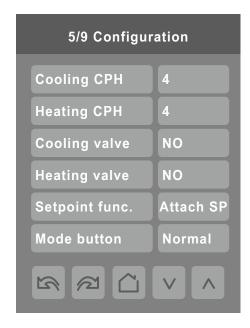
CONFIGURATION 4/9



Configuration Parameters Default Value	Significance and Adjustments
Standby time	Standby Time
Default: 0.5 hours AV67	Time delay 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 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 BI2, 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	Humidity Control Hysteresis
Default value: 5 % RH AV72	Used only if dehumidification sequence is enabled.
	Range: 2 to 20% RH
Deh. max. cool.	Dehumidification Maximum 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	Dehumidification Lockout
Default value: Disabled MV13	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
Cooling CPH	Cooling CPH
Default value: 4 CPH AV85	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
Heating CPH	Heating CPH
Default value: 4 CPH AV84	Heating 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
Cooling valve	Cooling Valve
Default value: NC MV87	Sets the type of valve used for cooling.
	NO: Valve normally opened when no power is present NC: Valve normally closed when no power is present
	Choices: 1=NO, 2=NC
Heating valve Default value: NC	Heating Valve
MV86	Sets the type of valve used for heating.
	NO: Valve normally opened when no power is present NC: Valve normally closed when no power is present
	Choices: 1=NO, 2=NC

Configuration Parameters Default Value	Significance and Adjustments
Setpoint func.	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
Mode button	Mode Button
Default value: Normal MV111	Changes 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

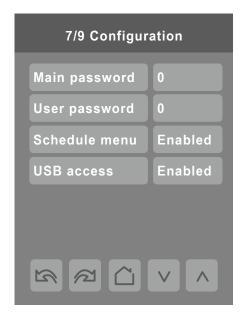
CONFIGURATION 6/9



Configuration Parameters Default Value		Significance and Ad	justments
Prop. band	Proportional Band		
Default value: 3.0 AV65	Adjusts proportional ba	nd used by Room Cont	troller PI control loop.
	cases. The use of a sup normally warranted in a and leads to unwanted	perior proportional band pplications where Room cycling of the unit. A ty and between return and s	eration in most normal installation of different than the factory valuen Controller location is problem spical example is a wall mounte supply air feeds and is directly
	Range : 3 to 10		
	Value	Effective Pro	portional 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

Configuration Parameters Default Value	Significance and Adjustments			
Pulsed heat	Pulsed Heating			
Default value: Off MV90	VDC output configuration (VC3000 series model dependent)			
	pipes application: VDC SSR models only. C	On-Off control for VC350xE models tions. electric heat 10 second pulsed tin Can only be used with 2 pipes syst C Occupancy output follows local o	ne base modulation for VC340xE em only.	
	1	d & Temporary Occupied = Contact & Unoccupied = Contact opened	t closed	
	Choices: 1=0	Off, 2=On, 3=Occ Out		
No. of pipes	Number of P	ipes		
Default: 2 AV52	Defines the type of system installed.			
	Choices: 2 or	4		
Operation seq. Default: Heat only MV15	Selects the initial application.	itial sequence of operation require	ed by the installation type and th	
	Mode	Mode Number of Pipes		
		2 Pipe	4 Pipe	
	Cool only	Cooling only	Cooling only	
	Heat only	Heating only	Heating only	
	Cool/Heat	Cooling with electric reheat	Heating / Cooling	
	Heat-Rht	Heating with electric reheat		
	Reheat	Electric reheat only		
	for local chan detected by t or network wr pulsed electri	put applications, the system acce geover COS, COC/NC or COC/NC he RUI1 limits the system mode av- ite. For sequence "electric reheat" c reheat applications with VC3400 Cool only, 2=Heat only, 3=Cool/Hea	C. The current water temperature vailable for the local configuration, set PulsedHt to "On" to enable DE & VC3404E.	
Purge sample			u, +-i ical-ivii, J-ivelical	
Purge sample Default: 2.0 hrs AV5	Purge Sample Period Time interval between valve samples. Will open valve for a short period adjust by "Purge open" parameter to sample pipe temperature to decide between heating or cooling mode.		perature to decide between	
Dunga anan	+ -	0.0 to 4.0 hours (0 hours disables t	ne iunction)	
Purge open Default: 2 min AV6	Purge Open Time the valve cooling mode	e opens to sample pipe temperatu	re to decide between heating or	
	Adjustable: 1 to 3 minutes			

CONFIGURATION 7/9



Configuration Parameters Default Value	Significance and Adjustments
Main password Default value: 0	Main Password
AV56	Sets 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	User Password
Default value: 0 AV57	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	Schedule Menu
Default value: Enabled MV73	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.
	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

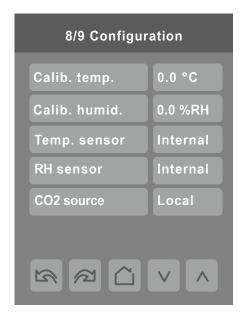
UNAUTHORIZED ACCESS

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. Default value: 0°F (0°C)	Calibrate Room Temperature Sensor
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.	Calibrate Humidity Sensor
Default value: 0.0 %RH AV8	Offset that can be added or subtracted to actual displayed humidity.
	Range: ± 15.0 %RH
Temp. sensor	Room Temperature Sensor
Default value: Internal 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.
	Internal: sets the Room Controller as the source for the room temperature. WL IO: sets the selected Zigbee wireless device as the source for the room temperature. Only one device can be selected. 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: If the wireless sensor is disconnected or 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 Parameters Default Value	Significance and Adjustments
RH sensor Default value: Internal	Relative Humidity Sensor
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 wireless Zigbee 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

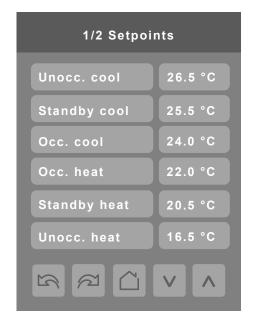
CONFIGURATION 9/9



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).

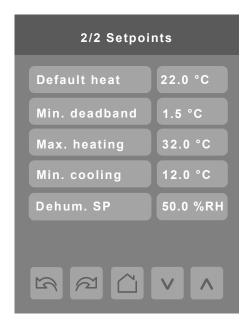
Setpoints Screens

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	Standby Cool Setpoint
Default value: 78 °F (25.5°C) AV42	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 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 Occupied or Override mode.
	Range : 40 to 90°F (4.5 to 32.0°C)

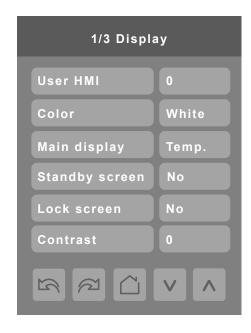
SETPOINTS 2/2

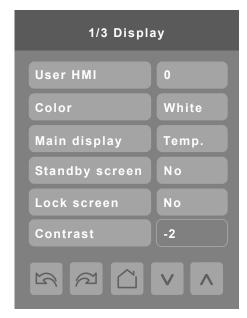


Configuration Parameters Default Value	Significance and Adjustments
Default heat	Default Heating Setpoint
Default value: 72°F (22°C) AV45	Used for hospitality applications in stand-alone mode only to reset the occupied setpoints when a new guest enters the room.
	When the Room Controller is in unoccupied 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	Maximum Occupied, Unoccupied, Standby and Override Cooling setpoints limits.
	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



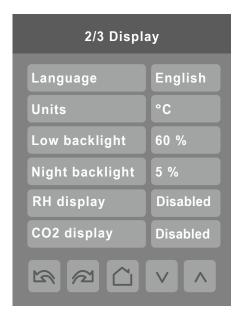


IPS Screen

Configuration Parameters Default Value	Significance and Adjustments
User HMI Default value: 0 AV2	User HMI 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 Default value: White MV2	HMI Color 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 Default value: Temp. MV3	Main Display Shows temperature or setpoint on main display
	Choices: 1=Temp., 2=Setpoint
Standby screen Default value: No MV32	Use Standby Screen 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	Contrast
Default value: 0	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	Relative Humidity Display
Default value: Disabled 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

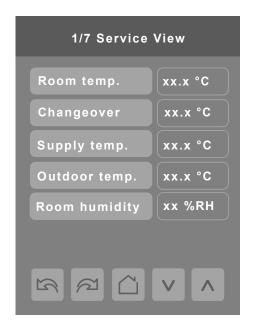


Configuration Parameters Default Value	Significance and Adjustments
Fan status Default value: Enabled MV180	Display the Fan Status icon Hides the fan status in the upper right corner of the User HMI display. Applicable to all User HMI configurations where the fan status is shown. Refer to "User HMI Show/Hide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

Service View Screens

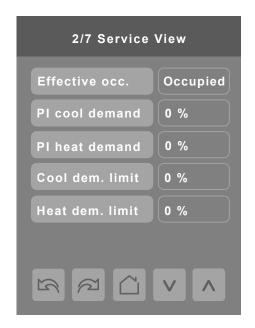
The service view screens show the current status of certain points locally on the Room Controller. These points can also be viewed through the network. Service view values are **Read Only** values but allow a service contractor to visualize the status of key functionality to correctly diagnose operational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

SERVICE VIEW 1/7



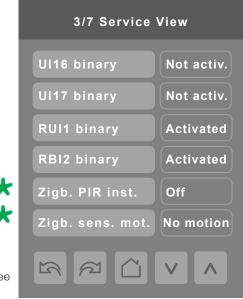
Configuration parameters Default Value	Significance and Adjustments
Room temp.	Room Temperature
Read Only AV100	Shows the current room temperature from the configured temperature source.
Changeover	Changeover Temperature
Read Only AV104	Shows the temperature of the changeover sensor.
Supply temp.	Supply Temperature
Read Only AV102	Shows supply air temperature as measured by the sensor.
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 46 to select RH source.

SERVICE VIEW 2/7



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%

SERVICE VIEW 3/7





Only for models with onboard Zigbee or optional Zigbee add-on module.

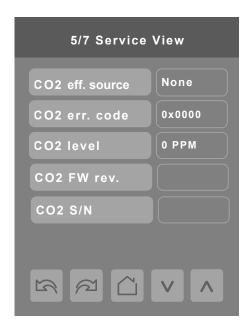
Configuration parameters Default Value	Significance and Adjustments
UI16 binary	UI16 Binary Input
Read Only BI29	BI1 Configuration. Shows status of input.
	Display Readings: 1=Activated, 2=Not activ.
UI17 binary	UI17 Binary Input
Read Only BI30	BI2 Configuration. Shows status of input.
	Display Readings: 1=Activated, 2=Not activ.
RUI1 binary	RUI1 Binary Input
Read Only BI91	Remote Universal Input Configuration No. 1. Shows status of input.
	Display Readings: 1=Activated, 2=Not activ.
RBI2 binary	RBI2 Binary Input
Read Only BI92	Remote Binary Input Configuration No. 2. 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 4/7



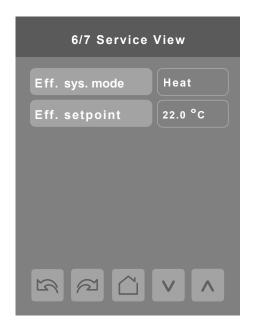
Configuration parameters Default Value	Significance and Adjustments
Window alarm	Window Alarm
Read Only BV35	Shows On if there is a Window alarm and shows Off if there is no Window alarm. This feature is for both wired and wireless sensors.
	Display Readings: 1=Off, 2=On
Service alarm	Service Alarm
Read 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 5/7



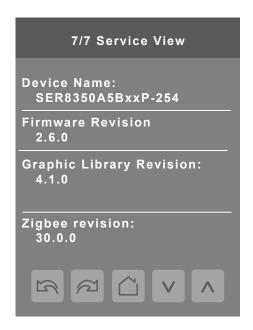
Configuration Parameters Default Value	Significance and Adjustments
CO2 eff. source	CO2 Effective Source
Read Only MSI324	Shows the configured source of the indoor CO2.
	Display Readings : 1=None, 2=Internal, 3=Error, 4=Wired, 5 to 24=WL 1 to WL 20
CO2 err. code	CO2 Error Code
Default value: 0 Read Only	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.

SERVICE VIEW 6/7



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 tempertature setpoint value currently in use by the system.

SERVICE VIEW 7/7



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.

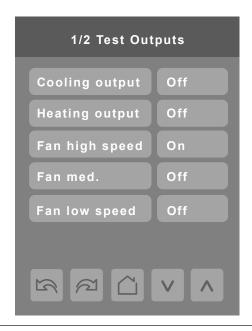
For example, when a SER8350A5BxxP Room Controller with a MAC address of 41 is connected to a network, its default Device Name is SER8350A5BxxP-41 and its default BACnet Device ID is 83041.

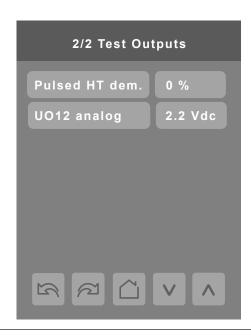
Firmware Revision shows the Firmware version currently installed on the Room Controller. Upgrading to a newer Firmware version deletes the previous Firmware version, however it is possible to set the Room Controller to an earlier Firmware version with the Uploader Tool.

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: Cooling output can also be used for heating on two pipes systems.

Note 2: The test output screen allows manual override of specified outputs. When any BACnet® network priority array includes a value, the status background shows in red. After any output state is overridden, the command is cancelled after 1 min of screen inactivity (auto exit to main screen) or when page is exited. Refer to the BACnet® integration guide for more details.

Configuration Parameters Default Value	Significance and Adjustments
Cooling output	Cooling Output
Default value: Off BO93	Choices: 1=Off, 2=On
Heating output	Heating Output
Default value: Off BO94	Choices: 1=Off, 2=On
Fan high speed	High Speed Fan Output
Default value: Off BO95	Choices: 1=Off, 2=On
Fan med. Default value: Off	Medium Speed Fan Output
BO96	Choices: 1=Off, 2=On
Fan low speed Default value: Off	Low Speed Fan Output
BO97	Choices: 1=Off, 2=On
Pulsed HT dem. Default value: 0 %	Pulsed Heating Demand
AO90	Choices : 0 to 100 %
UO12 analog	UO12 Analog Output
Default value: 0.0 Vdc AO124	Choices: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments

Language Selection Screens

LANGUAGE SELECTION









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.

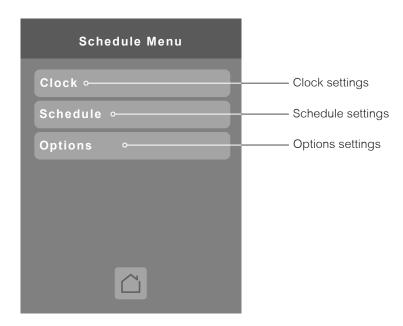
NOTE: English is always enabled.

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

Configuration Parameters Default Value	Significance and Adjustments
Chinese	Chinese
Default value: Enabled MV103	Choices: 1=Disabled, 2=Enabled
Default value: Enabled	Russian
	Choices:1=Disabled, 2=Enabled
Arabic Disabled	Arabic
Default value: Disabled MV120	Choices: 1=Disabled, 2=Enabled
Czech	Czech
Default value: Disabled MV122	Choices: 1=Disabled, 2=Enabled
Danish Default value: Disabled	Danish
MV123	Choices: 1=Disabled, 2=Enabled
Dutch Default value: Disabled	Dutch
MV124	Choices: 1=Disabled, 2=Enabled
Finnish Default value: Disabled	Finnish
MV125	Choices:1=Disabled, 2=Enabled
German	German
Default value: Disabled 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	Portuguese
Default value: Disabled MV132	Choices: 1=Disabled, 2=Enabled
Slovak Default value: Disabled	Slovak
MV133	Choices: 1=Disabled, 2=Enabled
Swedish Default value: Disabled	Swedish
Default value: Disabled MV134	Choices: 1=Disabled, 2=Enabled
Turkish Default value: Disabled	Turkish
MV135	Choices: 1=Disabled, 2=Enabled

Clock - Schedule Screens

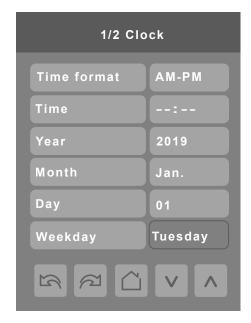
SCHEDULE MENU



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.

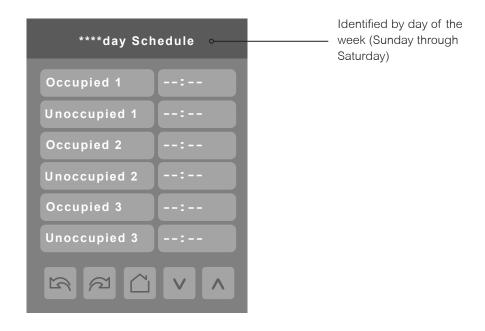




Configuration Parameters Default Value	Significance and Adjustments
Time format	Time Format
Default value: AM-PM MV5	Current time display format. Choice between 12 hour (AM - PM) time format or 24 hour time format.
	Note : Changing the value of this parameter automatically changes the format of the displayed value of the time parameter.
	Choices: 1=AM-PM, 2=24 Hours
Time	Time
Default value: current time at power up	Standard time display, 12 hour AM-PM or 24 hour format determined by the Time Format parameter value.
Year	Year
Default value: 2019	Current year
	Range: 2000 - 2100
Month	Month
Default value: Jan.	Current month
	Range: Jan Dec.
Day	Date
Default value: 1	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: Local 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

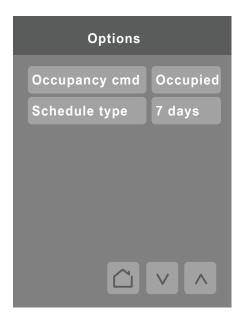
There are seven different schedule setting screens, one for each day of the week. Each day can have different scheduled events where the Room Controller is set to Occupied status or back to Unoccupied status. The Room Controller can use the appropriate setpoints (back and forth) up to three times per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



Configuration Parameters Default Value	Significance and Adjustments
Occupied 1 - 3	Occupied 1 - 3
Default value: None	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	Unoccupied 1 - 3
Default value: None	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

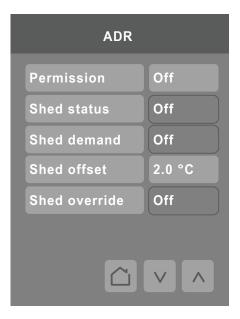
The options settings allow the Room Controller to function in Occupied or Unoccupied mode following a defined Schedule type set by the user.



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.
Schedule type Default value: 7 days MV136	Choices: 1=Loc occ, 2=Occupied, 3=Unocc. 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 supply-demand 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	Load Shedding Status
Default value: Off 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

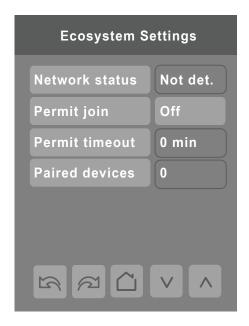
WIRELESS MENU

The Wireless screen shows only in models wirh 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 forward arrow to obtain information on each paired Zigbee device.



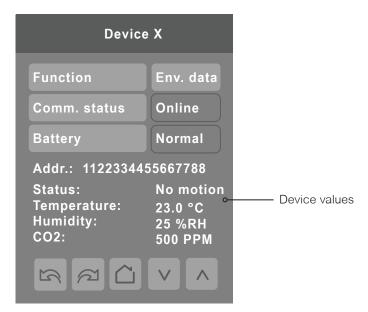
Configuration Parameters Default Value	Significance and Adjustments
Network status	Zigbee Network Status
Default value: Not det. Read Only	Shows current status of Zigbee network.
MSI2	Not det.: Zigbee module not detected
	Pwr on: Zigbee module detected but not configured
	No NWK: Zigbee configured but 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	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 Timeout Allows 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.
	Display Time: 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.

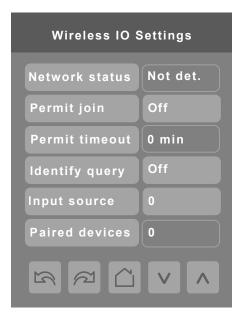


Configuration Parameters Default Value	Significance and Adjustments
Function	Wireless Device X - Function
Default value: None MV210-400	Shows status of installed Zigbee wireless device.
	None: No status reported to Room Controller
	Window: Window sensor installed
	Door: Door sensor installed
	Motion: 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

Configuration Parameters Default Value	Significance and Adjustments
Comm. status	Wireless Device X - Communication Status
Default value: Not paired	Shows if device is communicating with Room Controller
Read Only 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.	Wireless Device X - Address
Read Only CSV11-30	Shows unique IEEE (MAC) address of ZigBee wireless device
Status	Wireless Device X - Sensor Type
Default value: None	Wireless Device X - Status
Read Only Door status: BV1	Shows the ZigBee wireless device status. Device status and values will be differ-
Window status: BV3	ent 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	Range : -40 to 185 °F (-40 to 85 °C)
Al315-324, 355-364	Mange. 40 to 100 1 (40 to 00 0)
Humidity	Wireless Device X - Humidity
Read Only	Percent releative humidity
AI365-384	,
	Range: 0 to 100 %
CO2 Read Only	Wireless Device X - CO2
Al385-404	Parts per million
	Range : 0 to 5000 PPM
	Thange. 6 to 6000 FF M

WIRELESS IO SETTINGS

The Wireless IO settings screen allows the discovery of and pairing with a SEC-TE2 Smart Terminal Controller. Note: Onboard Zigbee or optional Zigbee add-on module required



Configuration Parameters Default Value	Significance and Adjustments
Network status Read Only	Zigbee Network Status
Read Offig	Shows the current status of the Zigbee network.
	Not det: Zigbee not detected
	Pwr on: Zigbee detected but not configured
	No NWK: Zigbee configured but no network joined
	Joined: Zigbee network joined
	Online: Communicating (Exchanging data)
	Display Readings: Not det., Pwr on, No NWK, Joined and Online
Permit join	Permit join
Default value: Off	On: Activates search mode
	Off: Changing value to "Off" locks out any new Zigbee devices from joining the network through this Room Controller.
	Choices: On or Off
Permit timeout	Permit Join Timeout
Default value: 0	
Read Only	Allows devices to join the Coordinator Room Controller for 180 minutes from the
	moment it is set to ON. The Room Controller stops searching when the 180 min-
	utes expires.
	NOTE: Permit Join parameter must be set to 'On' to enable this feature.
	Display Time: 0 or 180 minutes

Configuration Parameters Default Value	Significance and Adjustments
Identify query	Identify query
Default value: Off	On: Activates search mode for 10 seconds Off: Continues to search even if set to Off
	Choices: On or Off
Input source	Input Source
Default value: 0 AV207	Select an input source between 0 and 3.
	Range : 0 - 3
Paired devices	Paired Wireless IO
Default value: 0 Read Only Al313	Shows the number of Wireless IO Zigbee devices currently paired with the Room Controller. A maximum of 3 Wireless IO Zigbee devices can be paired with each Room Controller (total of 3 paired devices per Room Controller).
	Display Readings: 0 to 3 devices

WIRELESS IO X

The Wireless IO X screen shows data for each paired Zigbee device. Up to 3 Wireless IO Device screens can show.



Configuration Parameters Default Value	Significance and Adjustments
IEEE addr.	Wireless IO X IEEE Address
Read Only Al310-312	Shows unique IEEE (MAC) address of Wireless IO Zigbee device.
Status	Wireless IO X Status
Read Only MSI303-305	Read Only value shows if the device is Offline, Online or Busy.
	Display Readings: 1=Offline, 2=Online, 3=Busy
Remove	Wireless IO X Remove
Read Only MSI306-308	Read Only value shows if the device is Online or Offline.
	Display Readings: 1=No, 2=Yes

DEVICE GROUPS

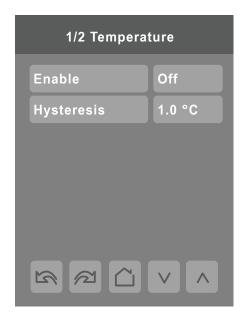
The Device Groups screen shows if a particular Zigbee wireless sensor is paired with the Room Controller.

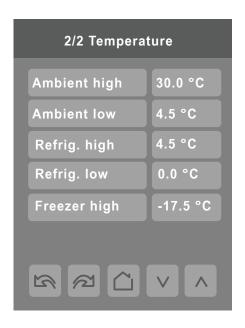


Configuration Parameters Default Value	Significance and Adjustments
Door installed	Door Contact Installed
Default value: No Read Only	Shows if Door sensor is installed.
BV2	Display Readings: 1=No, 2=Yes
Win. installed	Window Contact Installed
Default value: No Read Only	Shows if Window sensor is installed.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

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

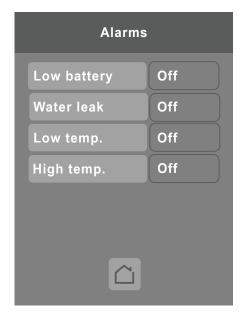




Configuration Parameters Default Value	Significance and Adjustments
Enable Default value: Off MV151	Temperature Alarm Enabled Enables wireless device to alert Room Controller if temperature value reaches defined value in a particular paired device. Choices: 1=Off, 2=On
Hysteresis Default value: 2.0 °F (1.0 °C) AV210	Temperature Alarm Hysteresis Choices: 0 to 10 °F (0 to 5.5 °C)
Ambient high Default value: 86.0 °F (30.0 °C) AV275	Ambient High Temperature Threshold Range: 32 to 122 °F (0 to 50 °C)
Ambient low Default value: 40.0 °F (4.5 °C) AV209	Ambient Low Temperature Threshold Range: 32 to 50 °F (0 to 10 °C)
Refrig. high Default value: 40.0 °F (4.5 °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 (-17.5 °C) AV278	Freezer High Temperature Threshold (only present if a freezer sensor is installed) Range: -40 to 32 °F (-40 to 0 °C)

ALARMS

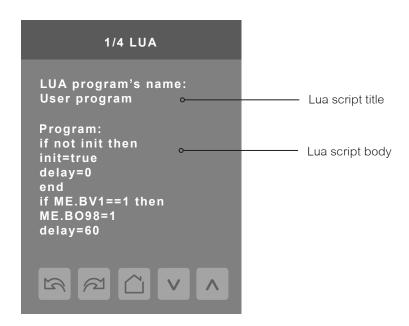
The Alarms screen shows data for paired Zigbee wireless devices.



Configuration Parameters Default Value	Significance and Adjustments
Low battery	Low Battery Alarm
Default value: Off Read Only BV5	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	Water Leak
Default value: Off Read Only BV44	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.	Low Temperature
Default value: Off Read Only BV47	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.	High Temperature
Default value: Off Read Only BV53	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.

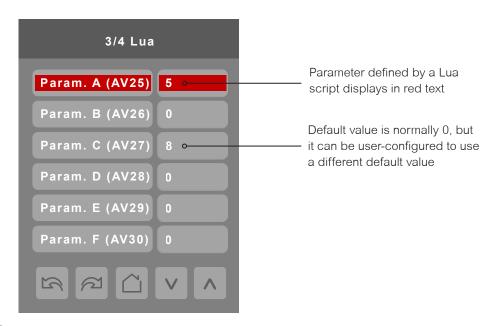




Configuration Parameters Default Value	Significance and Adjustments
Program cmd Default value: Run	Program Command
Default value. Run	Run: Lua script activated and runs continuously until deactivated
	Stop: Lua script deactivated
	Choices: Stop or Run
Program status	Program Status
Default value: Idle Read Only	Running: Lua script active
Read Only	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	Program Error
Default value: No error	No error: No errors in Lua script
Read Only	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 by 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)	Lua Parameter C (AV27)
Default value: 0 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) Default value: 0 AV229	Lua Parameter K (AV229) The value of this parameter depends on what is assigned to it from a BAS or Lua script.
Parameter L (AV230) Default value: 0 AV230	Lua Parameter L (AV230) The value of this parameter depends on what is assigned to it from a BAS or Lua script.

Technical Support



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

North America (NAM) Product Support Building Management Systems (BMS): www.nampss.com

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