

# SpaceLogic™ Room Controllers

## SE8350 User Interface Guide

Low Voltage Fan Coil Unit (FCU) and Zone Control

Firmware Revision 2.6




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# Safety Information

## IMPORTANT INFORMATION

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

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

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

### **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.

### **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.<sup>1</sup>
- 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.

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

# SECTION 1

Introduction

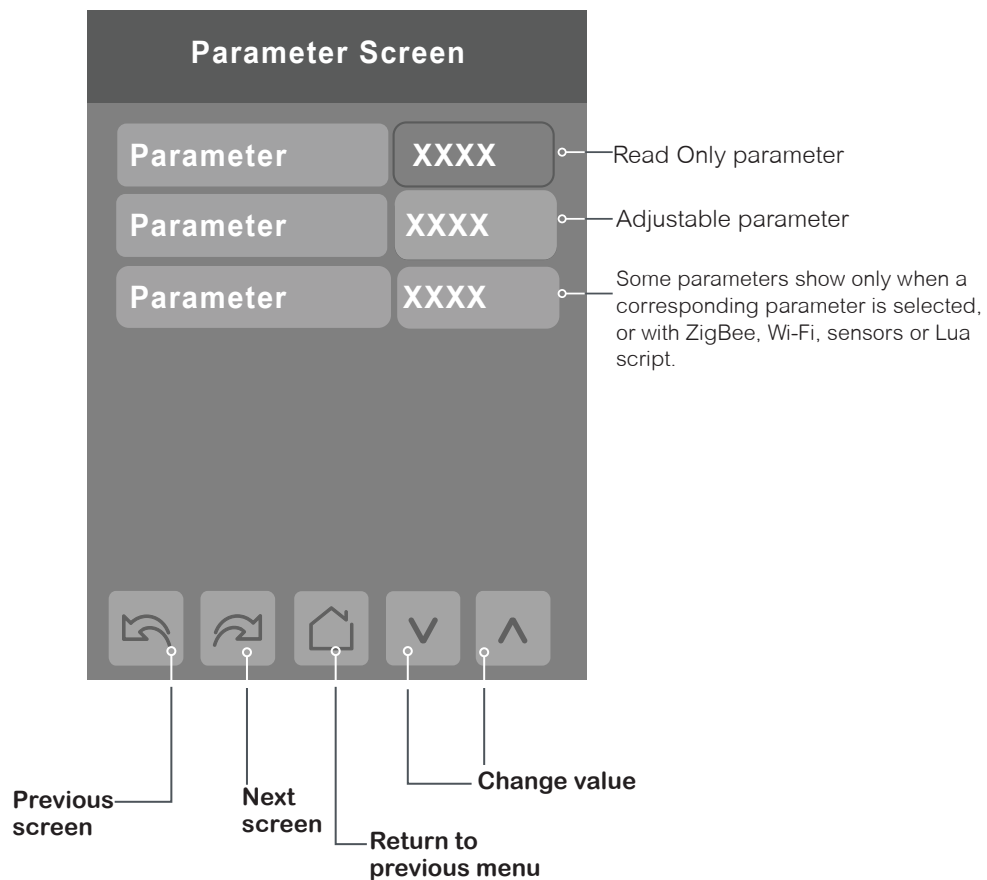
# Introduction

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

## User and Integrator Screens

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

See below legend screen details.



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

# Disclaimer

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

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

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

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

# BACnet Integration Guide References

To simplify cross-referencing between the User Interface Guide and the [BACnet Integration Guide](#), BACnet object properties are included in the Parameter Details tables as follows:

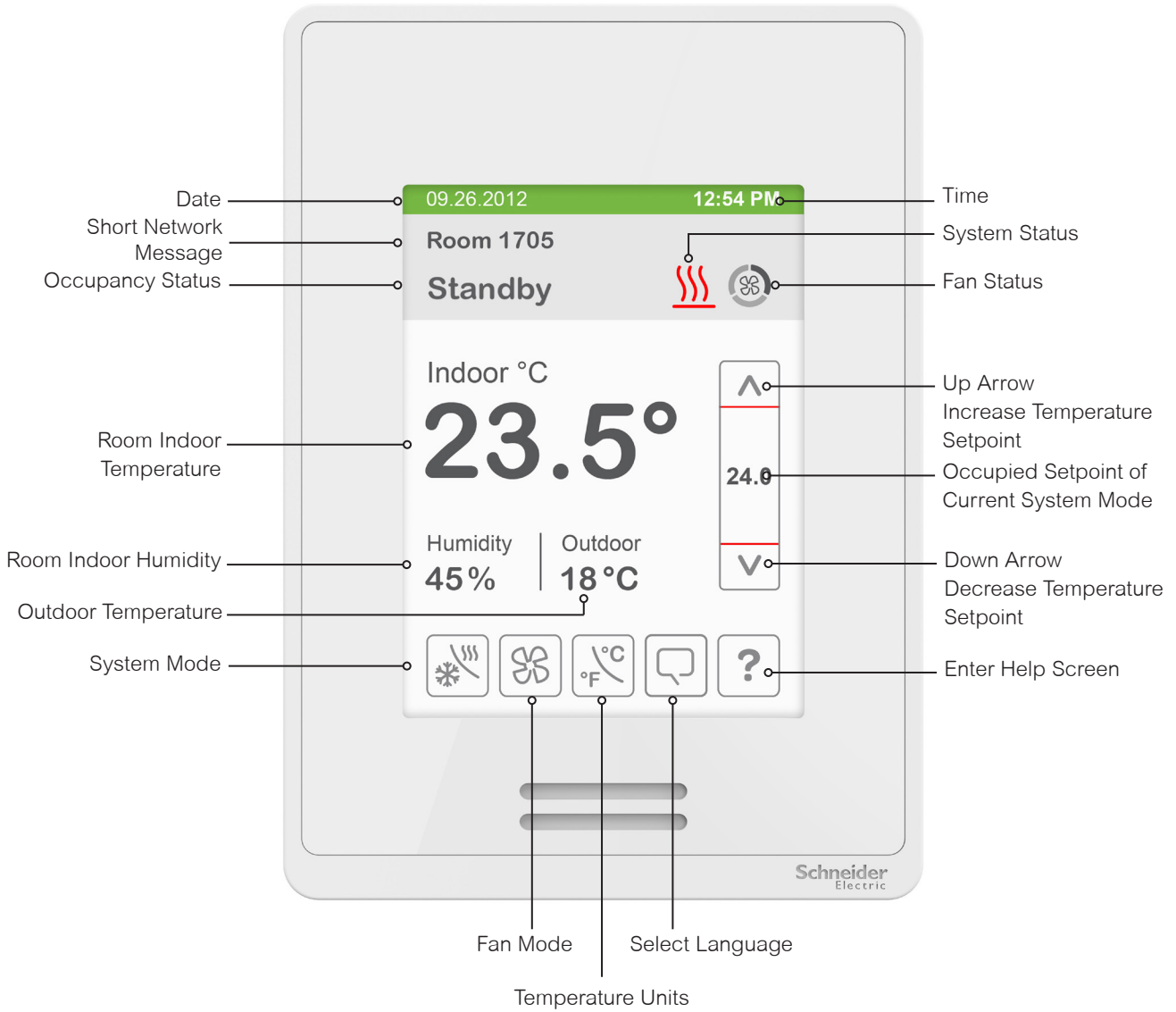
- **Object name.**
- **Instance number** and **object type prefix.** Object type prefixes are described as follows:
  - AI - Analog Input
  - AO - Analog Output
  - AV - Analog Value
  - BI - Binary Input
  - BO - Binary Output
  - BV - Binary Value
  - CSV - Comma-Separated Value
  - MSI - Multi-State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

## PARAMETER DETAILS

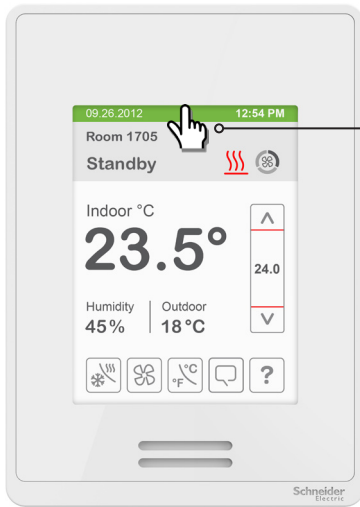
Configuration Parameters Default Value	Significance and Adjustments
Fan status Default value: Off MSI326 ○ — <b>Instance number</b>	Fan Speed Status ○ — <b>Object name</b> Status value: 1=Off, 2=Low, 3=Med, 4=High ○ — <b>Range values and enumeration</b>

# 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.



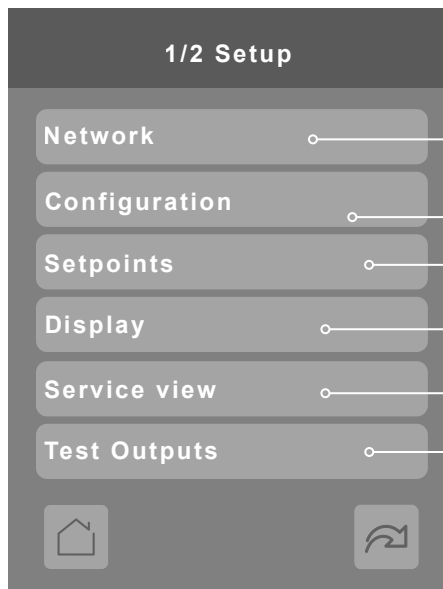
# Enter Setup Screen



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



Network — BACnet MS/TP, Modbus, ZigBee and Wi-Fi network settings (ZigBee network settings appear only if ZigBee feature is available)

Configuration — Parameter configuration menu

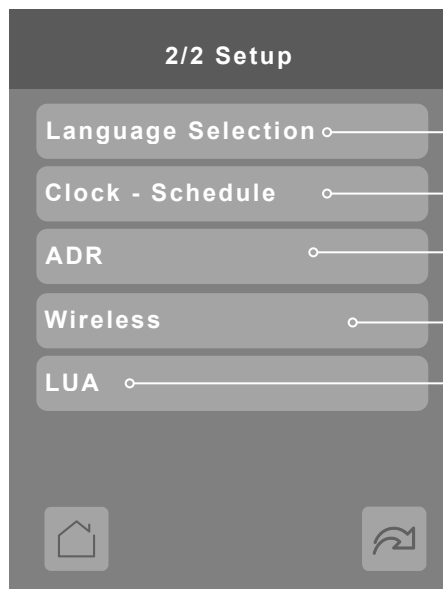
Setpoints — Setpoint settings

Display — Display settings

Service view — Status display (Read Only)

Test Outputs — Test outputs settings

## SETUP 2/2



Language Selection — Select language

Clock - Schedule — Set clock, schedule and occupancy

ADR — Automatic Demand Response

Wireless — Wireless Ecosystem settings (shows only if ZigBee feature is available)

LUA — Lua scripting (shows only if Lua script uploaded)

# SECTION 2

Customized User HMI Display

# User HMI for Hospitality

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

Hospitality 0	Hospitality 1	Hospitality 2	Hospitality 3
<ul style="list-style-type: none"> <li>• Setpoint adjustment</li> <li>• System mode setting</li> <li>• Fan mode setting</li> <li>• Local unit scale adjustment</li> <li>• Local user language</li> <li>• User help menu</li> </ul>	<ul style="list-style-type: none"> <li>• Setpoint adjustment</li> <li>• System mode setting</li> <li>• Fan mode setting</li> <li>• User help menu</li> </ul>	<ul style="list-style-type: none"> <li>• Setpoint adjustment</li> <li>• Local unit scale adjustment</li> <li>• Local user language</li> <li>• User help menu</li> </ul>	<ul style="list-style-type: none"> <li>• Setpoint adjustment</li> <li>• User help menu</li> </ul>

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

Hospitality 4	Hospitality 5	Hospitality 6
<ul style="list-style-type: none"> <li>• Fully locked interface with no user settings</li> </ul>	<ul style="list-style-type: none"> <li>• Setpoint adjustment</li> <li>• System mode setting</li> <li>• User help menu</li> </ul>	<ul style="list-style-type: none"> <li>• Setpoint adjustment</li> <li>• System mode setting</li> <li>• Fan mode setting</li> <li>• Local unit scale adjustment</li> <li>• User help menu</li> </ul>

# User HMI for Commercial

Commercial 7



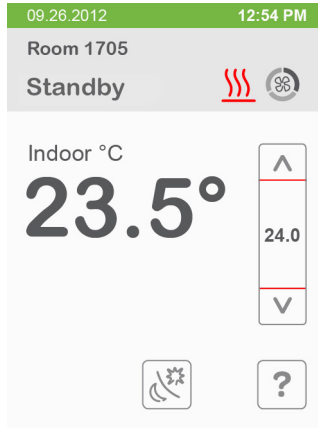
- Setpoint adjustment
- System mode setting
- Fan mode setting
- Unoccupied mode override
- User help menu

Commercial 8



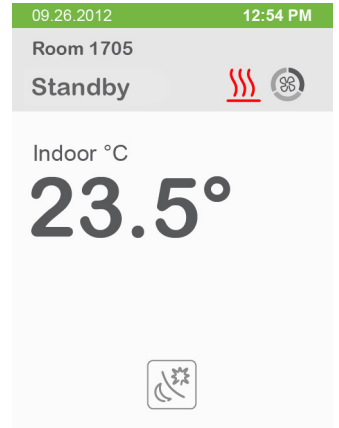
- Setpoint adjustment
- Unoccupied mode override
- Local user language
- User help menu

Commercial 9



- Setpoint adjustment
- Unoccupied mode override
- User help menu

Commercial 10



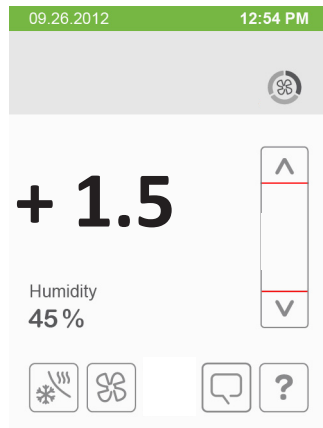
- Unoccupied mode override

Commercial 11



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

Commercial 12



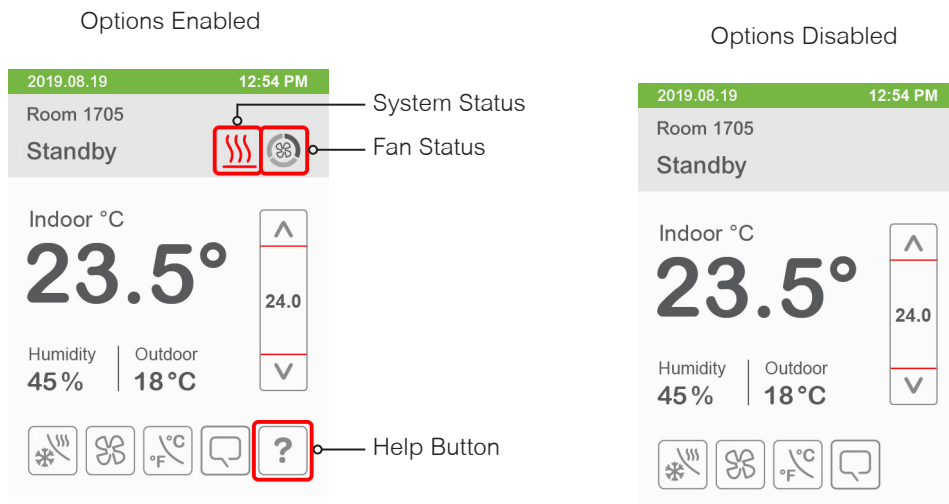
- Offset setpoints adjustment
- System mode setting
- Local user language
- Fan mode setting
- User help menu

**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.

# User HMI Show/Hide Options

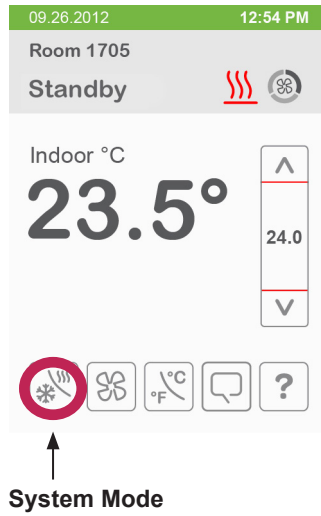
User HMI displays can be customized further by hiding the system status, fan status or help button. Each show/hide option is applicable to all User HMI configurations where the option is shown. To hide the option, select disabled for each display setup screen parameter. Refer to “Display 3/3” on page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



## PARAMETER DETAILS

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

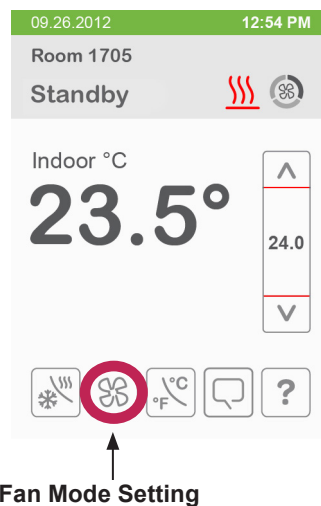
# System Mode



## PARAMETER DETAILS

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

## PARAMETER DETAILS

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

# Heating Only Configuration

09.26.2012 12:54 PM

Room 1705

Standby

Setpoint °C

23.5°

Humidity 45% | Outdoor 18°C

On/Off icon is used instead of system mode icon when sequence of operation is set to either heating only or cooling only.

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

# Setpoint Adjustment for Cooling Mode

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

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

09.26.2012 12:54 PM

Room 1705

Standby

Cooling Setpoint °C

23.5°

Humidity 45% | Outdoor 18°C

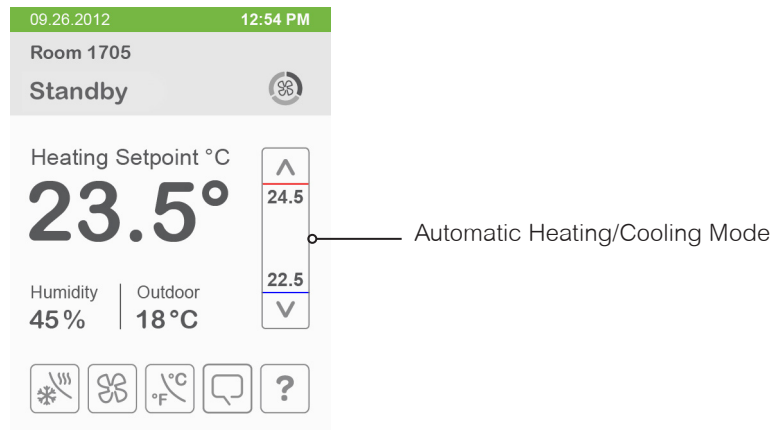
Cooling mode or cooling only sequence of operation.

# Setpoint Adjustment for Automatic Mode

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

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

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

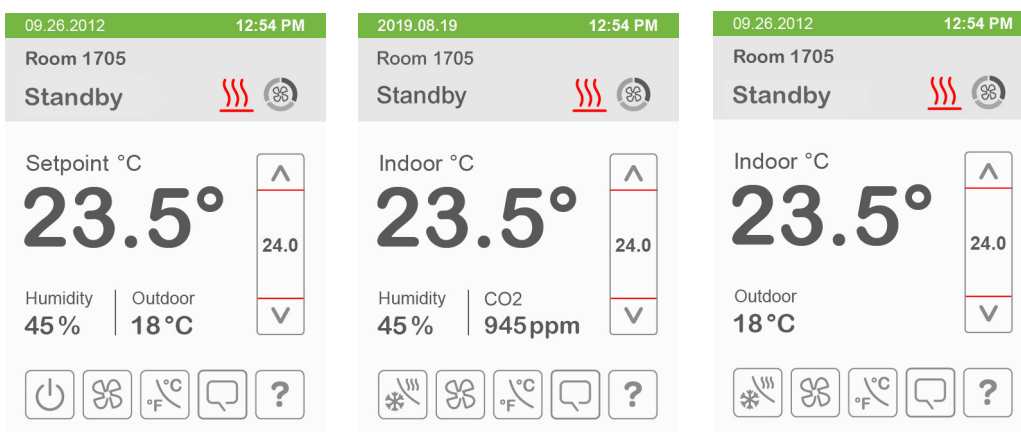


## Other Functions

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

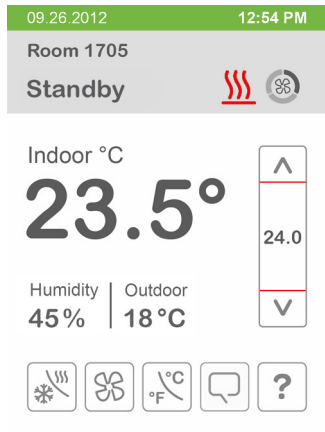
CO2 shows when CO2 display is enabled on the setup display screen, from either the optional CO2 detection sensor module or a wireless sensor end device selected by the CO2 source parameter on the setup configuration screen.

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

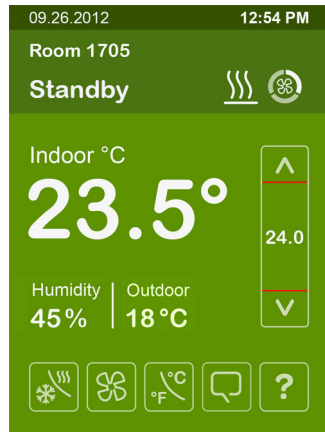


# Customizable Color Options

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



White



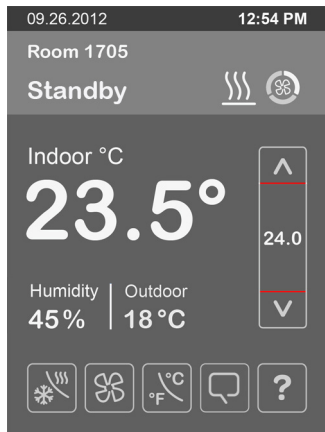
Green



Blue



Grey



Dark Grey



Pink



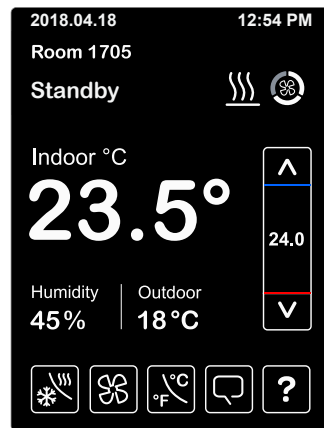
Purple



Red



Orange



Black

# SECTION 3

Integrator Setup Screens

# Network Screens

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

## NOTICE

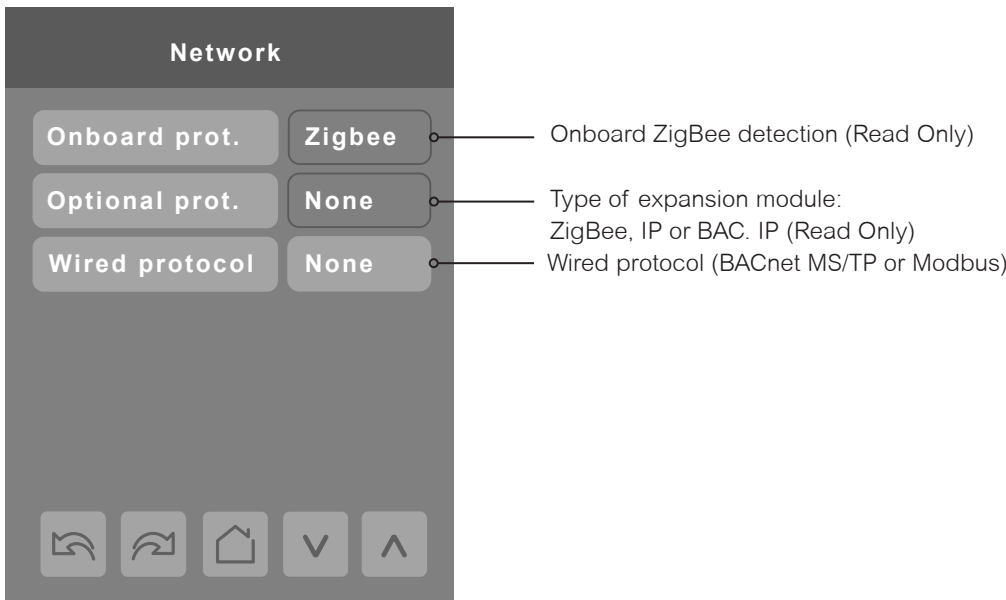
### UPGRADE OF ZIGBEE FIRMWARE REVISION 24 TO 30

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

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

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

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



### PARAMETER DETAILS

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

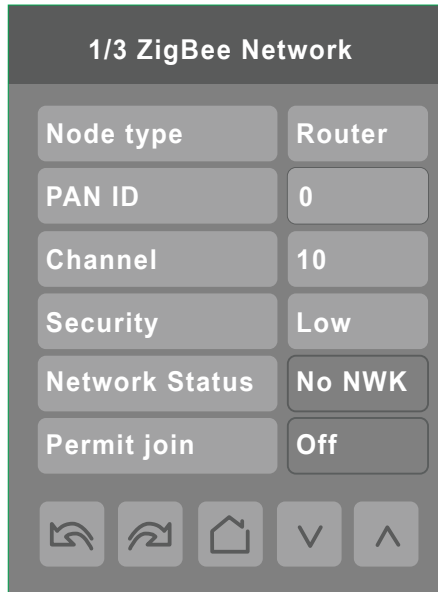
## ZIGBEE NETWORK 1/3

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.



### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Node type</b> Default: <b>Router</b>	<b>Node Type</b> Sets device to act as Router or Coordinator in a network. <b>Coord.:</b> Creates the network and manages the binding of wireless devices. <b>Router:</b> Joins a network created by a coordinator (Coordinator permit join must be set to 'ON'). <b>Choices:</b> Coord. or Router
<b>PAN ID</b> Default value: <b>0</b>	<b>ZigBee Pan ID</b> 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. <b>Note:</b> The default value of 0 is NOT a valid PAN ID and causes ZigBee to be disabled. <b>Range:</b> 1 to 65535
<b>Channel</b> Default value: <b>10</b>	<b>ZigBee Channel</b> 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. <b>Range:</b> 10 to 25

Configuration Parameters Default Value	Significance and Adjustments
<p><b>Security</b> Default value: <b>Low</b></p>	<p><b>Security Levels</b></p> <p><b>Note:</b> Changing between ZigBee Security levels does not require re-creating the ZigBee network, or re-commissioning sensors.</p> <p><b>Low:</b> 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.</p> <p><b>Normal:</b> 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:</p> <ul style="list-style-type: none"> <li>• SED-WDS-P-5045</li> <li>• SED-WDC-G-5045</li> <li>• SED-CMS-P-5045</li> <li>• SED-WMS-P-5045</li> <li>• SED-MTH-G-5045</li> <li>• SED-TRH-G-5045</li> <li>• SED-C02-G-5045</li> </ul> <p><b>High:</b> 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).</p> <p><b>Note:</b> 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.</p> <p><b>Important!</b> Selecting the Normal Security option will result in the removal of legacy sensors from the network.</p> <p><b>Choices:</b> Low, Normal or High</p>
<p><b>Network Status</b> <b>Read Only</b> <b>MSI2</b></p>	<p><b>ZigBee Network Status</b></p> <p>Shows the current status of the ZigBee network.</p> <p><b>Not det.:</b> Zigbee module not detected  <b>Pwr on:</b> Zigbee module detected but not configured  <b>No NWK:</b> ZigBee configured but no network joined  <b>Joined:</b> ZigBee network joined  <b>Online:</b> Communicating (Exchanging data)</p> <p><b>Display Readings:</b> 1=Not det., 2=Pwr on, 3=No NWK, 4=Joined, 5=Online</p>
<p><b>Permit join</b> Default value: <b>Off</b></p>	<p><b>Permit Join</b></p> <p>Changing this value to "Off" on the Coordinator prevents any new ZigBee devices from joining the network.</p> <p>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.</p> <p><b>Choices:</b> On or Off</p>

## ZIGBEE NETWORK 2/3

2/3 ZigBee Network

COM address

254

Short address

0x0000

IEEE address:  
00124B0018E25296

---

ZigBee revision:  
30.0.0-13-8c3477d

---









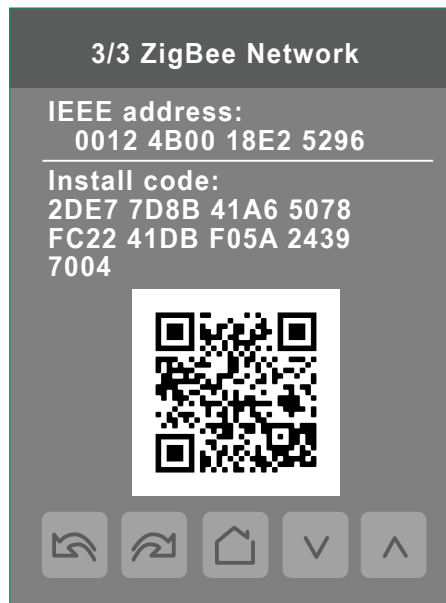


### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>COM address</b> Default value: <b>254</b> <b>AV10</b>	<b>COM Address</b> 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. <b>Range:</b> 0 to 254
<b>Short address</b> Default value: <b>0</b> <b>Read Only</b>	<b>Zigbee Short Address</b> The unique ZigBee short address is generated once a wireless device joins a ZigBee network.
<b>IEEE address</b> <b>Read Only</b> <b>CSV10</b>	<b>Zigbee IEEE Address</b> The extended IEEE address (MAC address) is a unique worldwide identifier of the onboard ZigBee or optional ZigBee add-on module.
<b>Zigbee revision</b> <b>Read Only</b> <b>CSV9</b>	<b>Zigbee Firmware Revision</b> 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.



### PARAMETER DETAILS


Configuration Parameters Default Value	Significance and Adjustments
<b>IEEE address</b> Read Only CSV10	<b>Zigbee IEEE Address</b> <p>The extended IEEE address (MAC address) is a unique worldwide identifier of the onboard ZigBee or optional ZigBee add-on module.</p>
<b>Install code</b> Read Only	<b>Install Code</b> <p>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.</p> <p><b>Warning:</b> 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.</p>
<b>QR code</b> Read Only	<b>QR Code</b> <p>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.</p> <p><b>Format:</b> Z\$A:{IEEE address}\$I:A{Install code}</p>

## BACNET NETWORK SETTINGS

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

1/2 BACnet Network

COM address	254
Network units	SI
Network lang.	English
Baud rate	Auto
BACnet status	Offline
BACnet PRate	4



### PARAMETER DETAILS

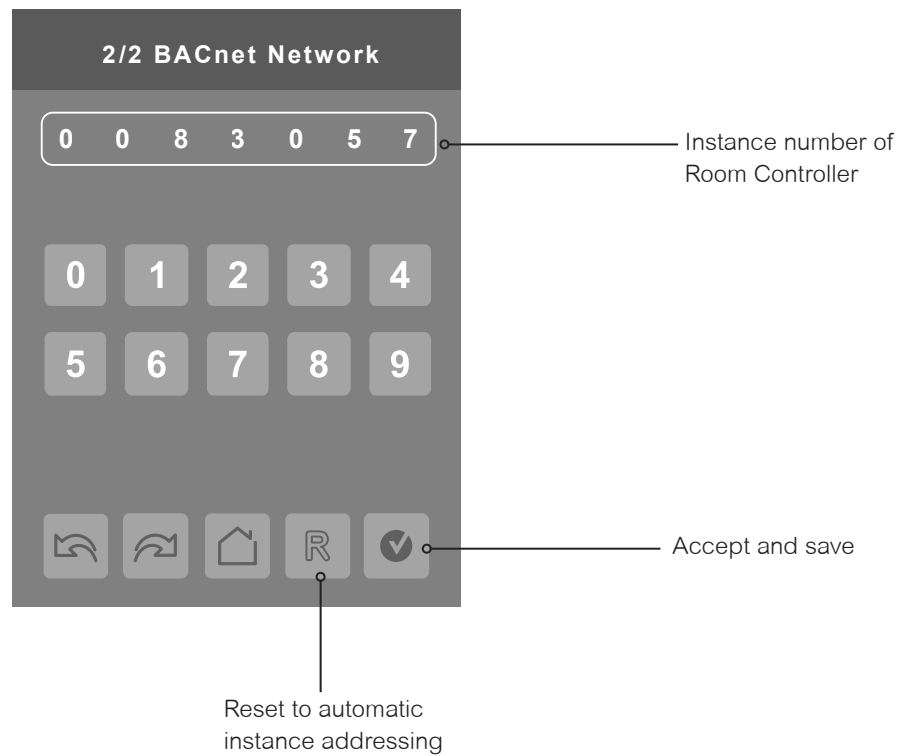
Configuration Parameters Default Value	Significance and Adjustments
<b>COM address</b> Default value: <b>254</b> <b>AV10</b>	<b>COM Address</b>  Room Controller networking address.  Default value of 254 disables BACnet communication for the Room Controller.  <b>Range:</b> 0 to 254
<b>Network units</b>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

## BACNET INSTANCE NUMBER

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

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

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



## MODBUS NETWORK SETTINGS

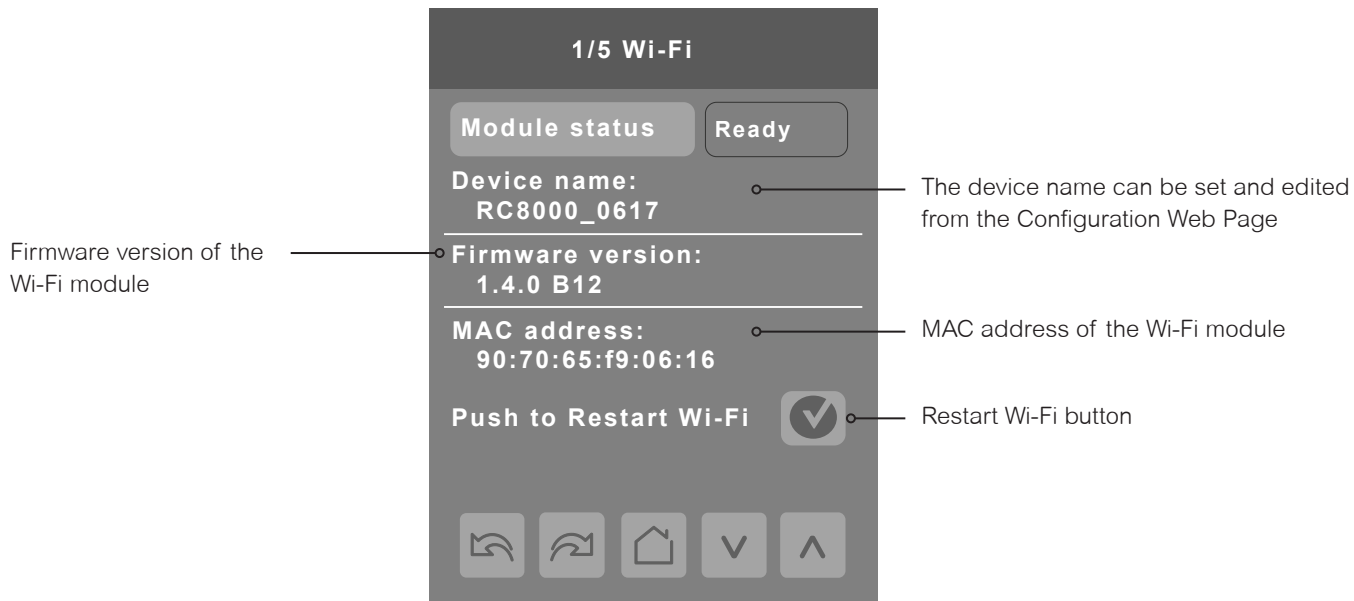
Modbus network screen shows when Modbus is selected in wired protocol parameter.

### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>COM address</b> Default value: <b>254</b>	<b>Communication Address</b> 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. <b>Range:</b> 0 to 254
<b>Network units</b> Default value: <b>SI</b>	<b>Measurement Units</b> Network units transmitted over the Modbus network. <b>NOTE:</b> Use the Temperature scale parameter to change the display units locally on the Room Controller. <b>Imperial:</b> network units shown as Imperial units. <b>SI:</b> network units shown as International Metric units. <b>Choices:</b> Imperial or SI
<b>Baud rate</b> Default value: <b>19200</b>	<b>Modbus Baud Rate</b> Automatically detects Modbus baud rate. <b>Choices:</b> 57600, 38400, 19200, 9600 and 4800
<b>Parity</b> Default value: <b>Even</b>	<b>Parity</b> Determines how the parity bit of the character's data frame is set to detect any errors in the sent/receives frame. <b>Choices:</b> None, Odd and Even

## Wi-Fi 1/5

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



### PARAMETER DETAILS

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

### PARAMETER DETAILS

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

## Wi-Fi 3/5

SSID of the building Wi-Fi network that the device is connected to

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

### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Wi-Fi status</b> Read Only MSI316	<b>Wi-Fi Status</b> 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, <b>Status value:</b> 1=Idle, 2=Associate, 3=Config., 4=Ready, 5=Online, 6=Disconn., 7=Failure
<b>Signal strength</b> Read Only MSI327	<b>Wi-Fi Network Signal Strength</b> Signal strength of the Wi-Fi network. <b>Range:</b> 1=Unknown, 2=Weak, 3=Fair, 4=Good, 5=Excellent
<b>SMTP status</b> Read Only MSI318	<b>SMTP Server Status</b> Status of the email SMTP server. Email notifications are enabled and configured from the Configuration Web Page. <b>Status value:</b> 1=Unknown, 2=Disabled, 3=Offline, 4=Online
<b>SSID</b> Read only CSV7	<b>Wi-Fi Network SSID</b> SSID of the building Wi-Fi network that the device is connected to. The SSID is set from the Configuration Web Page.
<b>IP address</b> Read only CSV8	<b>Wi-Fi Network IP Address</b> When connected to the building Wi-Fi network shown above, browse to this IP address to access the Configuration Web Page.

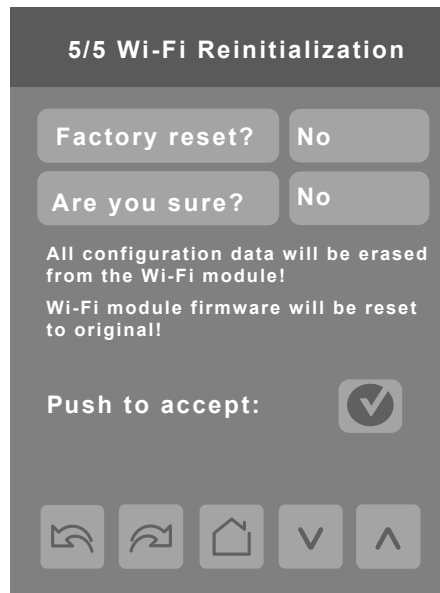
## Wi-Fi 4/5



### PARAMETER DETAILS

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

## Wi-Fi 5/5

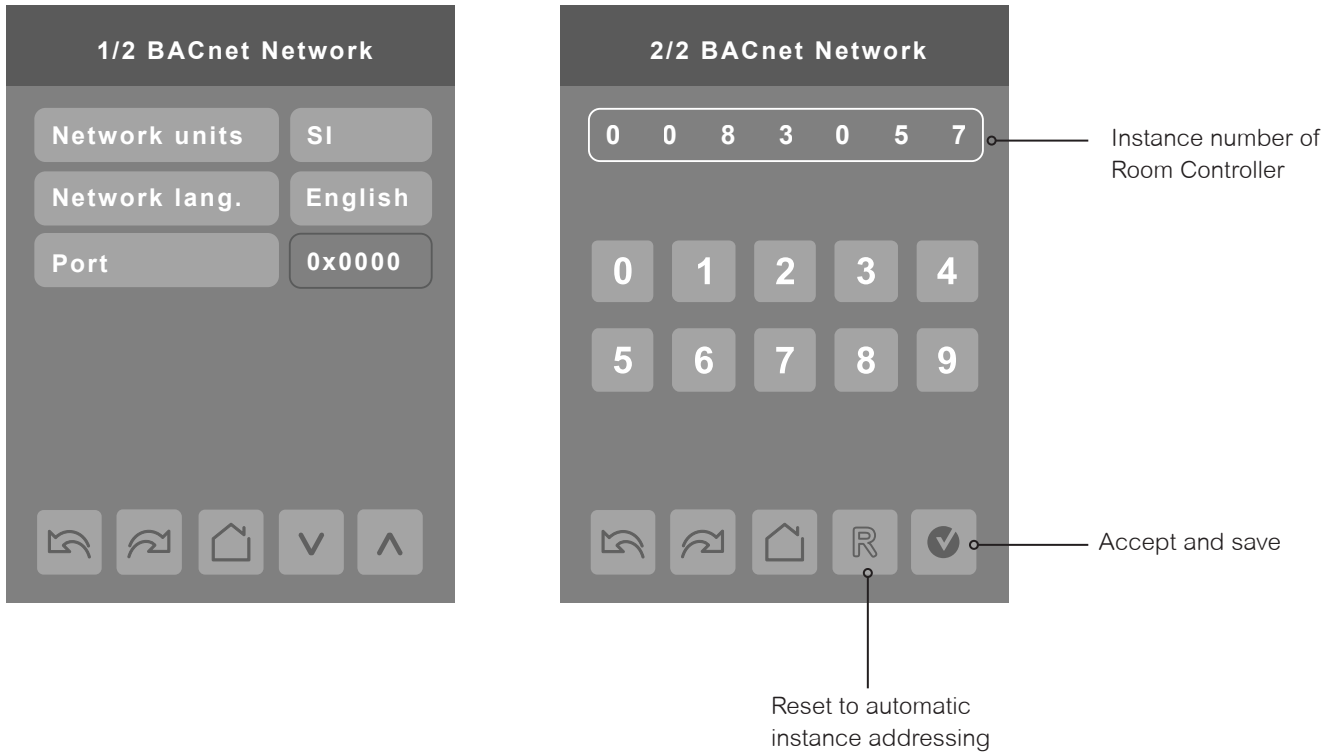


### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<p><b>Factory reset?</b> Default value: <b>No</b></p>	<p><b>Erase All</b></p> <p>Accepting Yes for both and then tapping 'Push to accept' will restore the Wi-Fi module to the factory settings, erase all configuration data and revert the Wi-Fi module firmware to the factory firmware version.</p> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• If you lose or forget your password for the Configuration Web Page, you must do a Factory Reset of the Wi-Fi module.</li> <li>• 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.</li> </ul>
<p><b>Are you sure?</b> Default value: <b>No</b></p>	

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

## BACNET INSTANCE NUMBER

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

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

Tap “R” icon to reset to automatic instance addressing.

# Configuration Screens

## CONFIGURATION 1/9

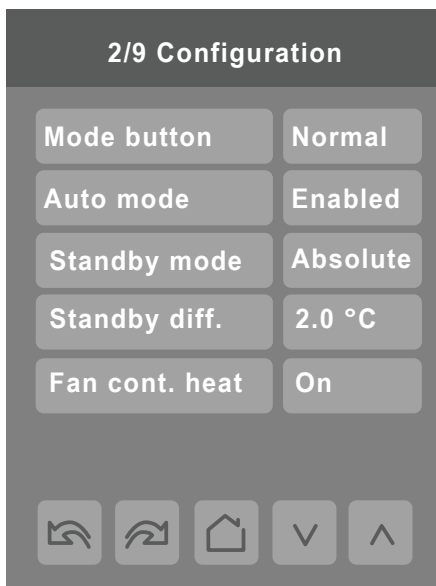


### PARAMETER DETAILS

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

Configuration Parameters Default Value	Significance and Adjustments
<b>UI19 config</b> Default value: <b>None</b> <b>MV49</b>	<b>UI19 Configuration</b>  <b>None:</b> no function associated with input though input can be used for remote network monitoring. <b>COC/NH:</b> change over dry contact normally heat. Used for hot/cold water or air change over switching in 2-pipe systems. <b>COC/NC:</b> change over dry contact normally cool. Used for hot/cold water or air change over switching in 2-pipe systems. <b>COS:</b> change over sensor. Used for hot/cold water or air changeover switching in 2 pipe systems.  <b>Choices:</b> 1=None, 2=COC/NH, 3=COC/NC. 4=COS
<b>Occupancy src</b> Default value: <b>Motion</b> <b>MV110</b>	<b>Occupancy Source</b>  <b>Motion:</b> Occupancy status is received from a motion sensor. <b>Schedule:</b> Occupancy status is determined by the schedule. <b>Mot. occ:</b> Occupied when scheduled occupied AND when motion is detected. <b>Mot. unoc:</b> Occupied when scheduled occupied OR when motion is detected.  <b>Choices:</b> 1=Motion, 2=Schedule, 3=Mot. occ., 4=Mot. unoc.
<b>Smart recovery</b> Default value: <b>Off</b> <b>MV71</b>	<b>Enable Smart Recovery</b>  <b>Off:</b> No smart recovery. The occupied schedule time is the time at which the system will restart. <b>On:</b> Smart recovery active. The occupied schedule time is the time at which the desired occupied temperature will be attained. The Room Controller automatically optimizes the equipment start time. In any case, the latest a system will restart is 10 minutes prior to the occupied period time.  Smart recovery is automatically disabled if UI16 is configured to remote NSB.  <b>Choices:</b> 1=Off, 2=On
<b>Setpoint func.</b> Default value: <b>Attach SP</b> <b>MV58</b>	<b>Setpoint Function</b>  Local setpoint settings to set the local setpoint interface for the User.  <b>Dual SP:</b> "Minimum" Deadband, Heat and Cool Setpoints can be adjusted independently. <b>Attach SP:</b> "Fixed" Deadband in occupied mode, Heat and Cool setpoints always follow each other, separated by Deadband value (acts like a single setpoint).  <b>Choices:</b> 1=Dual SP, 2=Attach SP

## CONFIGURATION 2/9

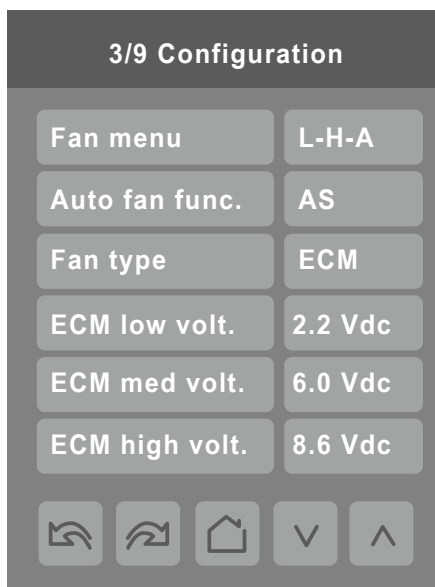


### PARAMETER DETAILS

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

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

## CONFIGURATION 3/9



### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<p><b>Fan menu</b> Default value = <b>On-Auto</b> <b>MV57</b></p>	<p><b>Fan Sequence</b></p> <p>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.</p> <p><b>L-M-H:</b> 3-Speed configuration  <b>L-H:</b> 2-Speed configuration  <b>L-M-H-A:</b> 3-Speed configuration with Auto fan speed. Auto Mode operation is dependent on Auto Fan parameter.  <b>L-H-A:</b> 2-Speed configuration with Auto fan speed mode. Auto Mode operation is dependent on Auto Fan parameter.  <b>On-Auto:</b> Single Speed configuration. <b>Auto</b> selection will activate fan on demand. <b>On</b> selection will keep the fan On in occupied, standby and override mode, and will activate fan based on demand in unoccupied mode.</p> <p><b>Choices:</b> 1=L-M-H, 2=L-H, 3=L-M-H-A, 4=L-H-A, 5= On-Auto</p>
<p><b>Auto fan func.</b> Default value: <b>AS</b> <b>MV66</b></p>	<p><b>Automatic Mode Fan Function</b></p> <p>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).</p> <p><b>AS:</b> 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.  <b>AS/AD:</b> In any Occupancy mode, the Fan turns Off all speeds when there is no demand for Heating or Cooling.</p> <p><b>Choices:</b> 1=AS, 2=AS/AD</p>

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

## CONFIGURATION 4/9



### PARAMETER DETAILS

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

Configuration Parameters Default Value	Significance and Adjustments
<b>Deh. hysteresis</b> Default value: <b>5 %RH</b> <b>AV72</b>	<b>Dehumidification Hysteresis</b>  Used only if dehumidification sequence is enabled.  <b>Range:</b> 2 to 20 %RH
<b>Deh. max. cool.</b> Default value: <b>100%</b> <b>AV73</b>	<b>Dehumidification Max Cooling Limit</b>  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.  <b>Range:</b> 20 to 100%
<b>Deh. lockout</b> Default value: <b>Disabled</b> <b>MV13</b>	<b>Dehumidification Lockout</b>  Enables or disables dehumidification based on central network requirements from the BAS front end.  <b>Disabled:</b> Dehumidification Not Authorized <b>Enabled:</b> Dehumidification Authorized  <b>Choices:</b> 1=Disabled, 2=Enabled

## CONFIGURATION 5/9



### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>CPH</b> Default value: <b>4</b> <b>AV84</b>	<b>CPH</b> 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.  <b>Range:</b> 3 to 8 CPH
<b>Ctrl. type out1</b> Default value: <b>Floating</b> <b>MV81</b>	<b>Control Type Output 1</b> Defines the type of control output for the FCU cooling valve connected to outputs UO9 and UO11.  <b>On/Off:</b> Normally opened or normally closed 24 VAC 2 position valves <b>Floating:</b> Modulating 3 wires control of 24 VAC floating valves <b>0-10V DA:</b> Direct Acting analog output signal for modulating control of 2-10 Vdc valves. DA = 0 to 100% = 0 to 10 Vdc <b>0-10V RA:</b> Reverse Acting analog output signal for modulating control of 2-10 Vdc valves. RA = 0 to 100% = 10 to 0 Vdc  <b>Choices:</b> 1=On/Off, 2=Floating, 3=0-10V DA, 4=0-10V RA

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

## CONFIGURATION 6/9

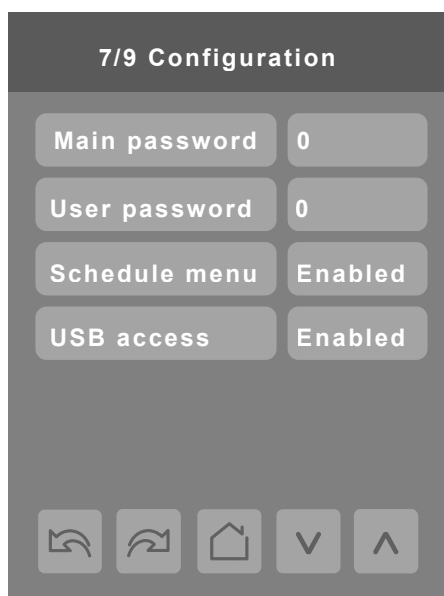


### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments																													
<p><b>Prop. band</b> Default value: <b>3.0</b> <b>AV65</b></p>	<p><b>Proportional Band</b></p> <p>Adjusts proportional band used by Room Controller PI control loop.</p> <p><b>Note:</b> Default value of 3 gives satisfactory operation in most normal installation cases. The use of a superior proportional band different than the factory value is normally warranted in applications where Room Controller location is problematic and leads to unwanted cycling of the unit. A typical example is a wall mounted Room Controller installed between return and supply air feeds and is directly influenced by the supply air stream of unit.</p> <p><b>Range:</b> 3.0 to 10.0</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="background-color: #008000; color: white;">Value</th> <th colspan="2" style="background-color: #008000; color: white;">Effective Proportional Band</th> </tr> <tr> <th style="background-color: #008000; color: white;">Fahrenheit</th> <th style="background-color: #008000; color: white;">Celsius</th> </tr> </thead> <tbody> <tr><td>3.0</td><td>3</td><td>1.2</td></tr> <tr><td>4.0</td><td>4</td><td>1.7</td></tr> <tr><td>5.0</td><td>5</td><td>2.2</td></tr> <tr><td>6.0</td><td>6</td><td>2.8</td></tr> <tr><td>7.0</td><td>7</td><td>3.3</td></tr> <tr><td>8.0</td><td>8</td><td>3.9</td></tr> <tr><td>9.0</td><td>9</td><td>5.0</td></tr> <tr><td>10.0</td><td>10</td><td>5.6</td></tr> </tbody> </table>	Value	Effective Proportional Band		Fahrenheit	Celsius	3.0	3	1.2	4.0	4	1.7	5.0	5	2.2	6.0	6	2.8	7.0	7	3.3	8.0	8	3.9	9.0	9	5.0	10.0	10	5.6
Value	Effective Proportional Band																													
	Fahrenheit	Celsius																												
3.0	3	1.2																												
4.0	4	1.7																												
5.0	5	2.2																												
6.0	6	2.8																												
7.0	7	3.3																												
8.0	8	3.9																												
9.0	9	5.0																												
10.0	10	5.6																												
<p><b>No. of pipes</b> Default: <b>2</b> <b>AV52</b></p>	<p><b>Number of Pipes</b></p> <p>Defines the type of system connected to outputs UO9 to UO12.</p> <p><b>2:</b> A one FCU valve system (heating or cooling) <b>4:</b> A two FCU valve system (one heating valve and one cooling valve)</p> <p><b>Choices:</b> 2 or 4</p>																													

Configuration Parameters Default Value	Significance and Adjustments
<b>Operation seq.</b> Default: <b>Heat only</b> <b>MV15</b>	<b>Sequence of Operation</b> Selects the initial sequence of operation required by the installation type and the application.  <b>Cool only:</b> cooling only <b>Heat only:</b> heating only <b>Cool-rht:</b> cooling with reheat <b>Heat-rht:</b> heating with reheat <b>Cool/heat:</b> cooling and heating <b>Cl/ht-rht:</b> cooling and heating with reheat  When "Pipe Number" is set to 2 and UI19 is set to COC-NH, COC-NC or COS the "Sequence of operation" is as follows: <ul style="list-style-type: none"> <li>• "Cool only" or "Heat only" will be determined by the UI19 contact status or sensor temperature.</li> <li>• For 2-Pipe application (no reheat): set "Sequence of operation" to "Cool only" or "Heat only"</li> <li>• For 2-Pipe application (with reheat): set "Sequence of operation" to "Cool-rht" or "Heat-rht"</li> </ul> <b>Choices:</b> 1=Cool only, 2=Heat only, 3=Cool-rht, 4=Heat-rht, 5=Cool/heat, 6=Cl/ht-rht
<b>Purge sample</b> Default: <b>2.0 hrs</b> <b>AV5</b>	<b>Purge Sample Period</b> Time interval between valve samples. Will open valve for a short period adjusted by "Purge open" parameter to sample pipe temperature to decide between heating or cooling mode.  <b>Adjustable:</b> 0.0 to 4.0 hours (0 hours disables the function)
<b>Purge open</b> Default: <b>2 min</b> <b>AV6</b>	<b>Purge Open</b> Time the valve opens to sample pipe temperature to decide between heating or cooling mode.  <b>Adjustable:</b> 1 to 3 minutes
<b>Temp. sensor</b> Default value: <b>Wired</b> <b>MSI309, MV145</b>	<b>Room Temperature Sensor</b> 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.  <b>Wired:</b> sets the thermistor connected to UI20 (RS) as the source to report room temperature. <b>Internal:</b> sets the Room Controller as the source for the room temperature. <b>WL 1 to WL 20:</b> sets the selected ZigBee wireless device as the source for the room temperature. Only one device can be selected.  <b>Note:</b> The Room Controller uses the internal temperature sensor only if the UI20 (RS) terminal is empty. If a valid temperature sensor is connected to the UI20 terminal, the Room Controller will use the sensor as the control point. Disconnecting the sensor, or if the sensor is faulty, the Room Controller will automatically revert to its internal temperature sensor.  <b>Choices:</b> 1=Wired, 2=Internal, 3= WL IO, 4 to 23=WL 1 to WL 20

## CONFIGURATION 7/9



### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Main password</b> Default value: 0 <b>AV56</b>	<b>Main Password</b> 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. <b>Range:</b> 0 to 9999.
<b>User password</b> Default value: 0 <b>AV57</b>	<b>User Password</b> 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. <b>Range:</b> 0 to 9999.
<b>Schedule menu</b> Default value: Enabled <b>MV73</b>	<b>Schedule Menu</b> Toggles activation of schedule menu direct access. <b>Disabled:</b> Schedule Menu can only be accessed through the Setup Menu screens. <b>Enabled:</b> Schedule Menu is directly accessible from the main screen via a touch in the upper corner. <b>Dis.no.clk:</b> Schedule Menu can only be accessed through the Setup Menu screens. Clock does not show. <b>En.no.clk:</b> Schedule Menu is directly accessible from the main screen via a touch in the upper corner. Clock does not show. <b>Choices:</b> 1=Disabled, 2=Enabled, 3=Dis.no.clk, 4=En.no.clk

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

## ***NOTICE***

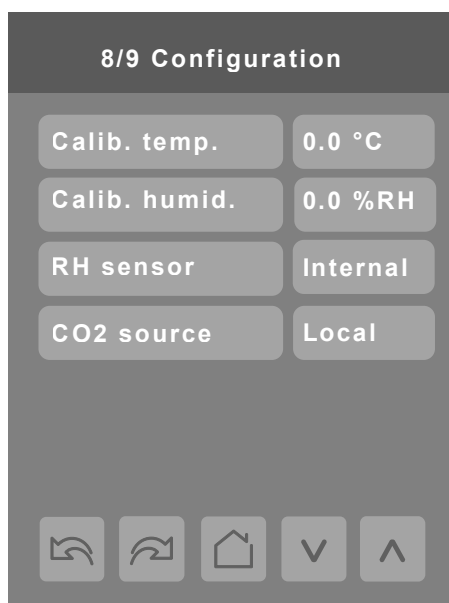
### **UNAUTHORIZED ACCESS**

**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.**

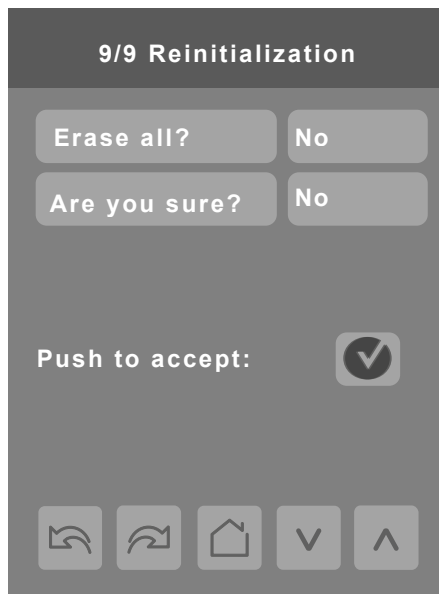
## CONFIGURATION 8/9



## PARAMETER DETAILS

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

## CONFIGURATION 9/9



### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<p><b>Erase all?</b> Default value: <b>No</b></p>	<p><b>Erase All</b></p> <p>Accepting Yes for both and then tapping 'Push to accept' returns all values to the factory default settings with the exception of the following:</p> <ul style="list-style-type: none"> <li>• COM address</li> <li>• Network Units</li> <li>• Network Language</li> <li>• Baud Rate</li> <li>• BACnet Instance</li> <li>• Device Name</li> <li>• Screen Contrast</li> <li>• Lua Script</li> </ul> <p><b>Note:</b> Node type in ZigBee Network screen returns to default value (Router).</p>
<p><b>Are you sure?</b> Default value: <b>No</b></p>	

# Setpoints Screens

## SETPOINTS 1/2



### PARAMETER DETAILS

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

## SETPOINTS 2/2

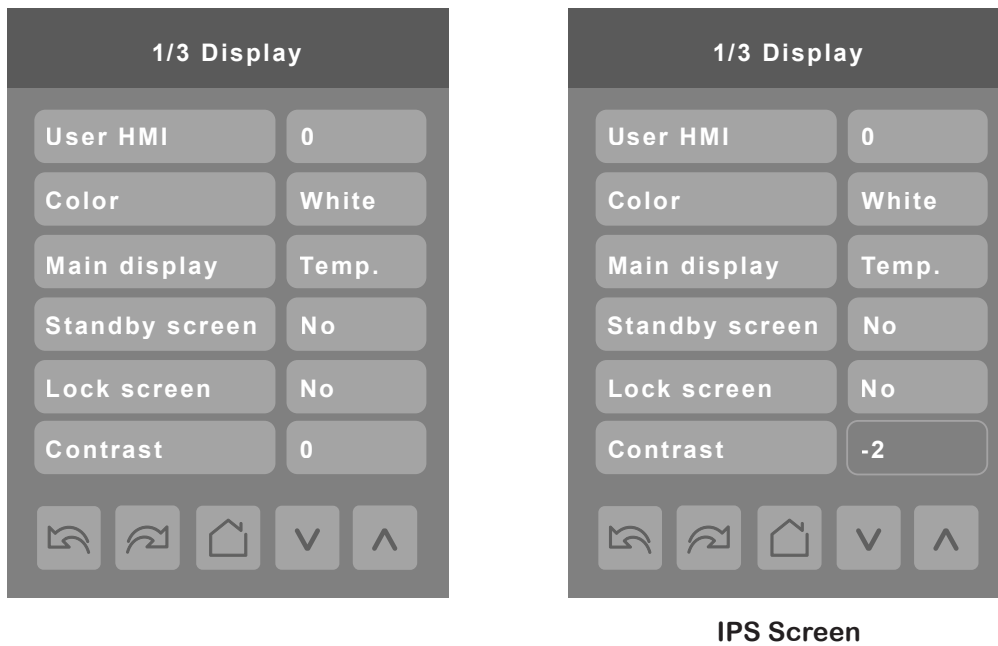


### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Default heat</b> Default value: <b>72°F (22°C)</b> <b>AV45</b>	<b>Default Heating Setpoint</b> <p>Used for hospitality applications in stand-alone mode only to reset the occupied setpoints when a new guest enters the room.</p> <p>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.</p> <p><b>NOTE:</b> This functionality is only valid when Stand-by mode = Offset and “Setpoint Func” is set to “Attached”.</p> <p><b>Range:</b> 65 to 80°F (18.5 to 26.5°C)</p>
<b>Min. deadband</b> Default value: <b>3°F (1.5°C)</b> <b>AV63</b>	<b>Minimum Deadband</b> <p>Temperature offset between the Cooling and Heating setpoints to ensure that Cooling setpoint is always warmer than the Heating setpoint.</p> <p>Cooling setpoint <math>\geq</math> (Heating setpoint + Deadband)</p> <p><b>Range:</b> 2 to 5°F (1.0 to 2.5°C)</p>
<b>Max. heating</b> Default value: <b>90°F (32°C)</b> <b>AV58</b>	<b>Heating Setpoint Limit</b> <p>Maximum Occupied, Unoccupied, Standby and Override Heating setpoints limit.</p> <p><b>Range:</b> 40 to 90°F (4.5 to 32.0°C)</p>
<b>Min. cooling</b> Default value: <b>54°F (12°C)</b> <b>AV59</b>	<b>Cooling Setpoint Limit</b> <p>Minimum Occupied, Unoccupied, Standby and Override Cooling setpoint limit.</p> <p><b>Range:</b> 54 to 100°F (12.0 to 37.5°C)</p>
<b>Dehum. SP</b> Default value: <b>50 %RH</b> <b>AV71</b>	<b>Dehumidification Setpoint</b> <p>Used only if dehumidification sequence is enabled.</p> <p><b>Range:</b> 30 to 95 %RH</p>

# Display Screens

## DISPLAY 1/3



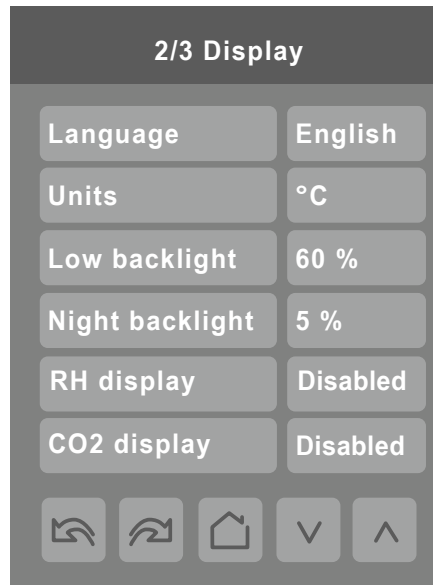
IPS Screen

### PARAMETER DETAILS

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

Configuration Parameters Default Value	Significance and Adjustments
<b>Lock screen</b> Default value: <b>No</b> <b>MV148</b>	<b>Lock Screen</b>  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: <ul style="list-style-type: none"> <li>• Standby image loaded</li> <li>• Standby Screen = "Yes" or "Screen Saver"</li> <li>• User Password = not 0</li> </ul> <b>Choices:</b> 1=No, 2=Yes
<b>Contrast</b> Default value: <b>0</b>	<b>Contrast</b>  Control screen contrast and brightness.  <b>Range:</b> -5 to 5
<b>Contrast Read Only</b>	<b>IPS Screen Contrast</b>  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.  <b>Note:</b> RCs with an IPS screen cannot be downgraded to a firmware revision older than 2.6.  <b>Display Default:</b> -2

## DISPLAY 2/3

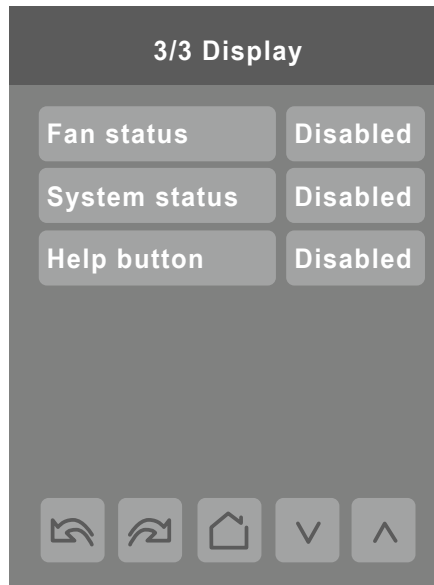


## PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Language</b> Default value: <b>English</b> <b>MV4</b>	<b>Display Language</b> Select language for main display.  <b>Choices:</b> 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
<b>Units</b> Default value: <b>°C</b> <b>MV51</b>	<b>Temperature Scale</b> Changes the local display units. Refer to Network Units to change the network units broadcasted over the network.  <b>Choices:</b> 1=°C for SI, 2=°F for Imperial
<b>Low backlight</b> Default value: <b>60%</b> <b>AV3</b>	<b>Low Backlight</b> Sets display backlight intensity. This feature is activated (screen dims) 150 seconds after no activity on the Room Controller.  <b>Adjustable:</b> 0 to 100%.
<b>Night backlight</b> Default value: <b>5%</b> <b>AV4</b>	<b>Night Backlight</b> 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.  <b>Adjustable:</b> 0 to 100%.

Configuration Parameters Default Value	Significance and Adjustments
<b>RH display</b> Default value: <b>Disabled</b> <b>MV70</b>	<b>Room Humidity Display</b> Shows humidity level in room in %RH. <b>Disabled:</b> Do not display %RH <b>Enabled:</b> Display %RH <b>Choices:</b> 1= Disabled, 2= Enabled
<b>CO2 display</b> Default value: <b>Enabled</b> <b>MV146</b>	<b>CO2 Display</b> Shows carbon dioxide level in room in ppm. <b>Disabled:</b> Do not display CO2 level <b>Enabled:</b> Display CO2 level <b>Note:</b> 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. <b>Choices:</b> 1=Disabled, 2=Enabled

## DISPLAY 3/3



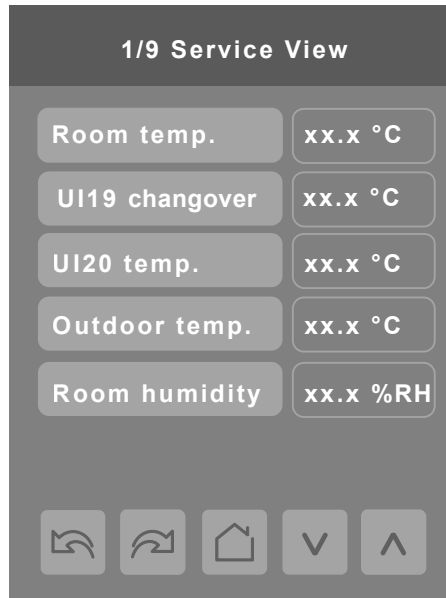
## PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Fan status</b> Default value: <b>Enabled</b> <b>MV180</b>	<b>Display the Fan Status icon</b> 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. <b>Choices:</b> 1=Disabled, 2=Enabled
<b>System status</b> Default value: <b>Enabled</b> <b>MV181</b>	<b>Display the System Status icon</b> 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. <b>Choices:</b> 1=Disabled, 2=Enabled
<b>Help button</b> Default value: <b>Enabled</b> <b>MV182</b>	<b>Display the Help button</b> 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. <b>Choices:</b> 1=Disabled, 2=Enabled

# Service View Screens

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

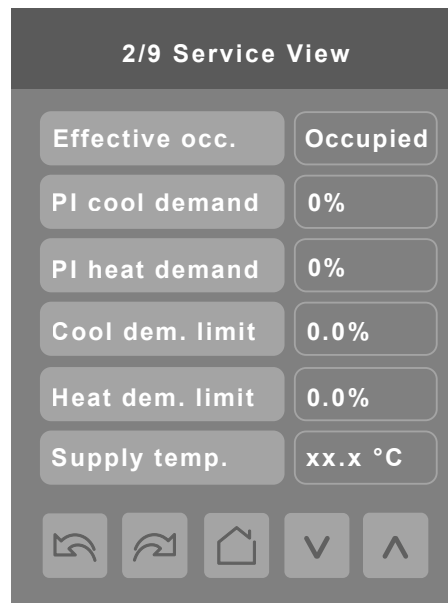
## SERVICE VIEW 1/9



### PARAMETER DETAILS

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

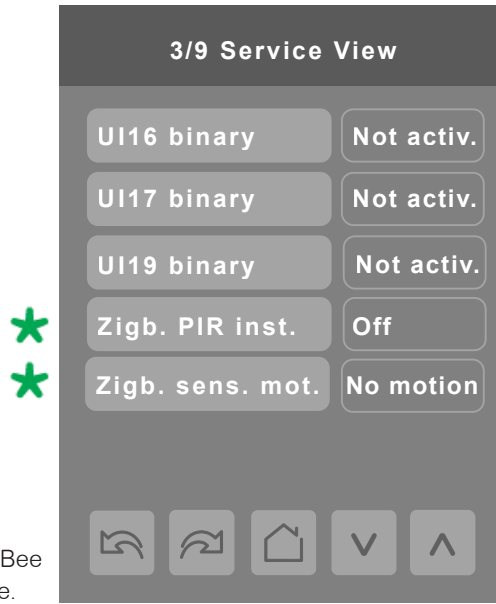
## SERVICE VIEW 2/9



## PARAMETER DETAILS

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

## SERVICE VIEW 3/9



\* Only for models with onboard ZigBee or optional ZigBee add-on module.

### PARAMETER DETAILS

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

## SERVICE VIEW 4/9



### PARAMETER DETAILS

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

## SERVICE VIEW 5/9



## PARAMETER DETAILS

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

## SERVICE VIEW 6/9



### PARAMETER DETAILS

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

## SERVICE VIEW 7/9

7/9 Service View

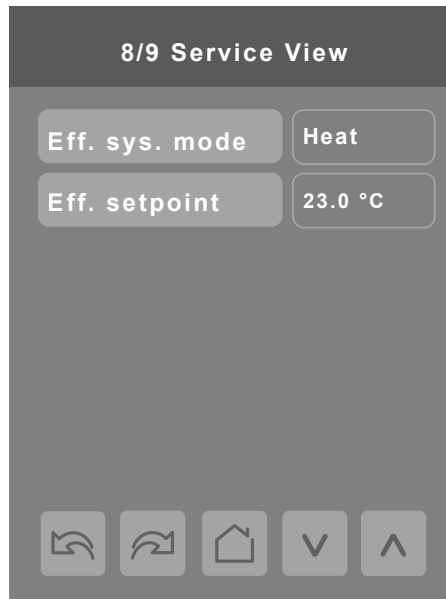
CO2 eff. source	None
CO2 err. code	0x0000
CO2 level	0 PPM
CO2 FW rev.	
CO2 S/N	

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## PARAMETER DETAILS

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

## SERVICE VIEW 8/9



## PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Eff. sys. mode</b> Read Only <b>MSI314</b>	<b>Effective System Mode</b> 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. <b>Display Readings:</b> 1=Cool, 2=Heat
<b>Eff. setpoint</b> Read Only <b>AI329</b>	<b>Effective Setpoint</b> Shows the temperature setpoint value currently in use by the system.

## SERVICE VIEW 9/9



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

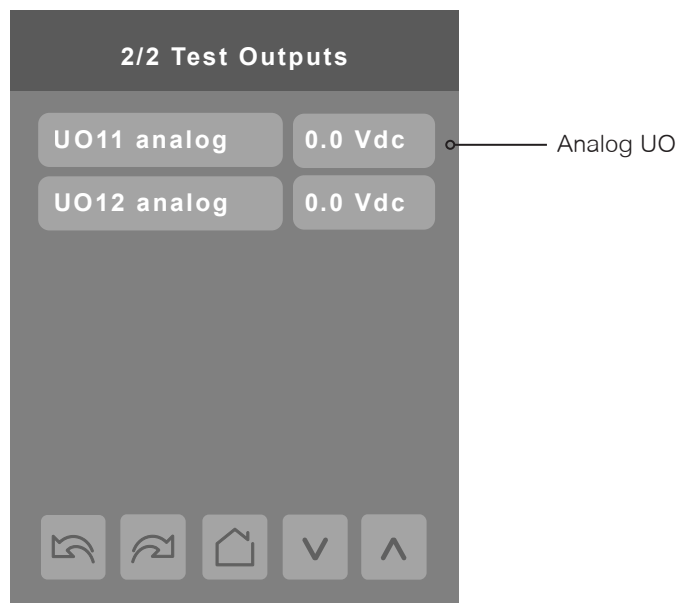
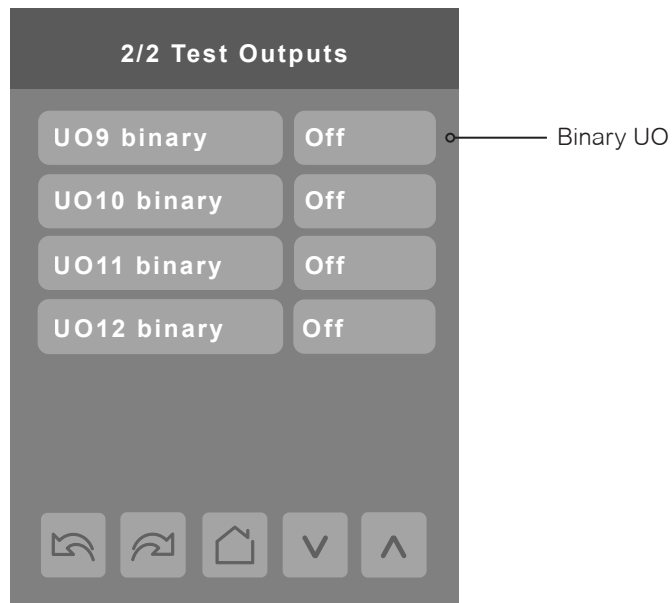
For example, when a SE8350U5BxxP Room Controller with a MAC address of 41 is connected to a network, its default Device Name is SE8350U5BxxP-41 and its default BACnet Device ID is 83041.

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

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

# Test Outputs Screens

## TEST OUTPUTS



### **NOTICE**

#### **SAFE OPERATION ENVIRONMENT**

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

**Failure to follow these instructions can result in equipment damage.**

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

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

**Note 3:** Test Outputs values are LIVE. Any output gets displayed immediately for any value change according to the following:

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

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

## PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
BO4 fan high Default value: Off BO95	BO4 High Speed Fan Output Choices: 1=Off, 2=On
BO3 fan med Default value: Off BO96	BO3 Medium Speed Fan Output Choices: 1=Off, 2=On
BO2 fan low Default value: Off BO97	BO2 Low Speed Fan Output Choices: 1=Off, 2=On
BO8 aux. out Default value: Off BO98	BO8 Auxiliary Binary Output Choices: 1=Off, 2=On
BO1 output Default value: Off BO103	BO1 Binary Output Choices: 1=Off, 2=On
UO9 binary Default value: Off BO93	UO9 Binary Output Choices: 1=Off, 2=On
UO10 binary Default value: Off BO94	UO10 Binary Output Choices: 1=Off, 2=On
UO11 binary Default value: Off BO101	UO11 Binary Output Choices: 1=Off, 2=On
U1O2 binary Default value: Off BO102	UO12 Binary Output Choices: 1=Off, 2=On
UO9 analog Default value: 0.0 Vdc AO125	UO9 Analog Output Range: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments
UO10 analog Default value: 0.0 Vdc AO126	UO10 Analog Output Range: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments
UO11 analog Default value: 0.0 Vdc AO123	UO11 Analog Output Range: 0.0 Vdc to 10.0 Vdc, using 0.1 Vdc increments
UO12 analog Default value: 0.0 Vdc AO124	UO12 Analog Output Range: 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.

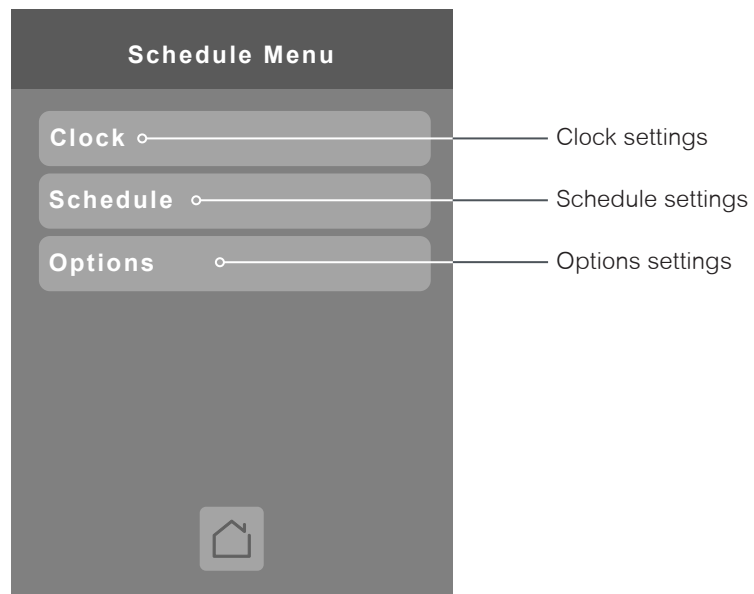
### PARAMETER DETAILS

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

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

# Clock - Schedule Screens

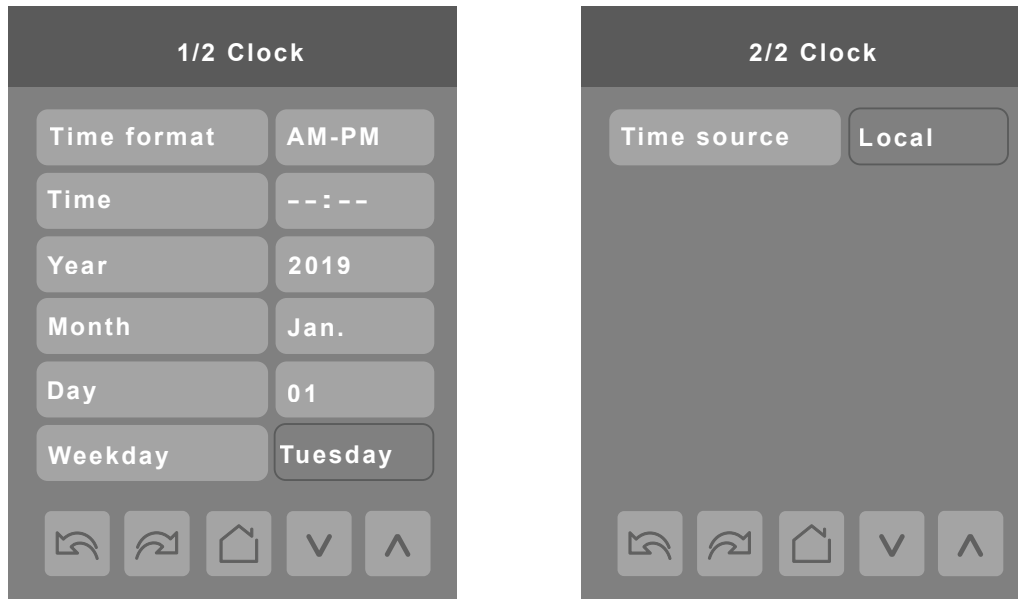
## SCHEDULE MENU



**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.



### PARAMETER DETAILS

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



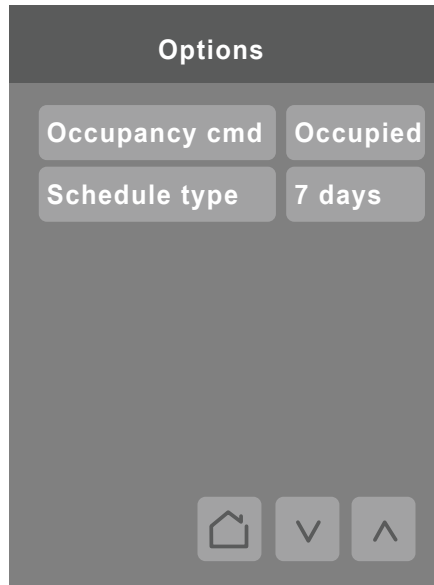
Identified by day of the week (Sunday through Saturday)

### PARAMETER DETAILS

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

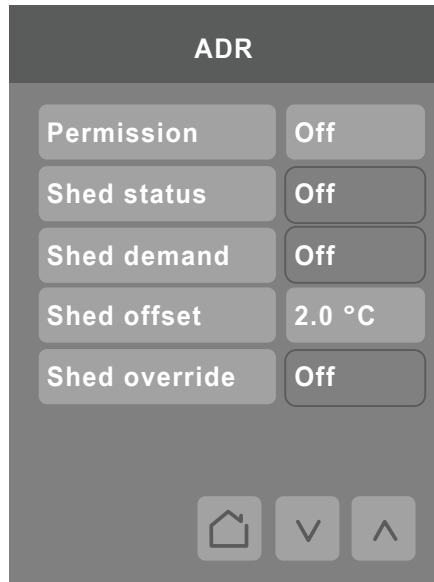


### PARAMETER DETAILS

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



## PARAMETER DETAILS

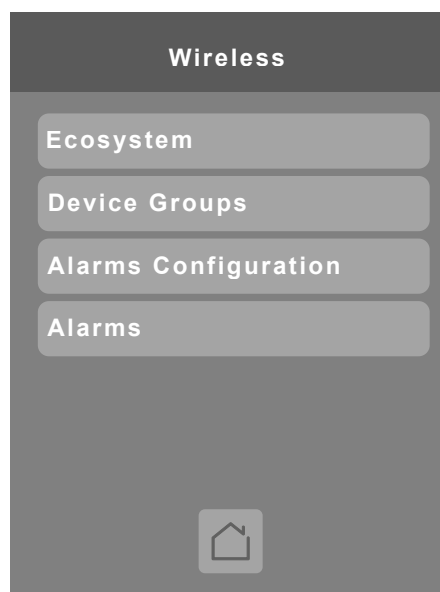
Configuration Parameters Default Value	Significance and Adjustments
<b>Permission</b> Default value: <b>Off</b> <b>MV152</b>	<b>ADR Permission</b> Used to permit the ADR to be applicable or not to change the Room Controller setpoints setting or not. <b>Off:</b> The Load Shedding Demand will not be permitted.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

Configuration Parameters Default Value	Significance and Adjustments
<b>Shed offset</b> Default value: <b>4°F (2°C)</b> <b>AV211</b>	<b>Load Shedding Offset</b> 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. <b>Choices:</b> 4°F to 10°F (2°C to 5.5°C)
<b>Shed override</b> Default value: <b>Off</b> <b>Read Only</b> <b>BV50</b>	<b>Load Shedding Override</b> 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. <b>Off:</b> Allows shed load demand request from utility company (setpoint will change according to shed offset) <b>On:</b> Rejects or cancels shed load demand request from utility company (setpoints remain the same). <b>Display Readings:</b> 1=Off, 2=On

## Wireless Screens

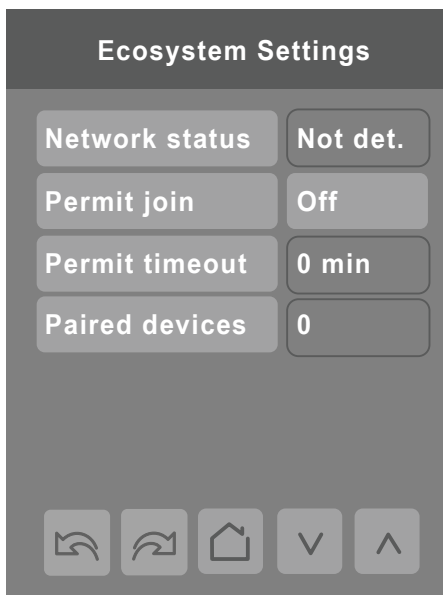
### WIRELESS MENU

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



## ECOSYSTEM SETTINGS

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



### PARAMETER DETAILS

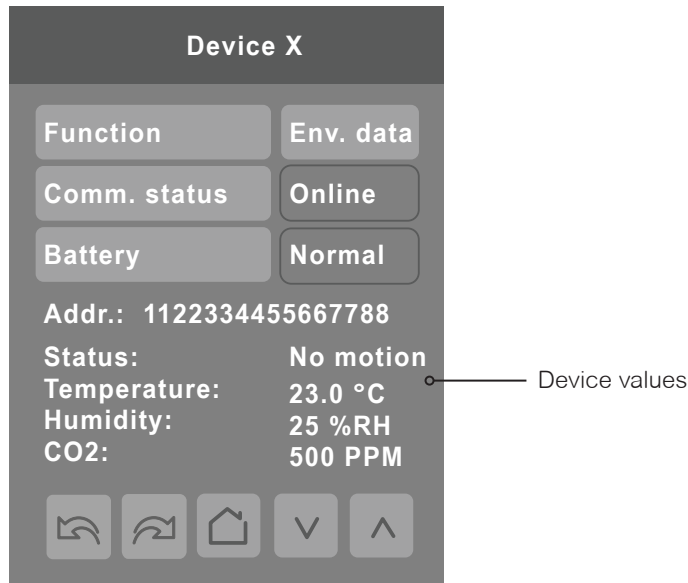
Configuration Parameters Default Value	Significance and Adjustments
<b>Network status</b> Default value: <b>Not det.</b> <b>Read Only</b> <b>MSI2</b>	<b>ZigBee Network Status</b> Shows current status of ZigBee network. <b>Not det.:</b> Zigbee module not detected <b>Pwr on:</b> ZigBee module detected but not configured <b>No NWK:</b> ZigBee configured but no network joined <b>Joined:</b> ZigBee network joined <b>Online:</b> Communicating (Exchanging data) <b>Display Readings:</b> 1=Not det., 2=Pwr on, 3=No NWK, 4=Joined, 5=Online
<b>Permit join</b> Default value: <b>Off</b>	<b>Permit Join</b> 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. <b>On:</b> Allows Room Controller to pair with ZigBee wireless device <b>Off:</b> Prevents Room Controller from pairing with ZigBee wireless device, or prevent any additional ZigBee devices from joining network. <b>Choices:</b> On or Off

Configuration Parameters Default Value	Significance and Adjustments
<b>Permit timeout</b> Default value: <b>0</b> <b>Read Only</b>	<b>Permit Join Timeout</b> 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.  <b>NOTE:</b> Permit Join parameter must be set to 'On' to enable this feature.  <b>Range:</b> 0 or 180 minutes
<b>Paired devices</b> Default value: <b>0</b> <b>Read Only</b> <b>AI330</b>	<b>Paired ZigBee Devices</b> 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.  <b>Display Readings:</b> 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.



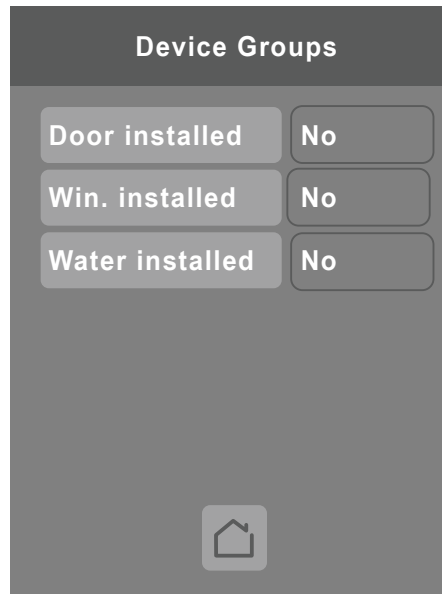
## PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Function</b> Default value: <b>None</b> <b>MV210-400</b>	<b>Wireless Device X - Function</b> Shows the function of the installed ZigBee wireless device.  <b>None:</b> No status reported to Room Controller <b>Window:</b> Window sensor installed <b>Door:</b> Door sensor installed <b>Motion:</b> Device set to detect motion <b>Env. data:</b> Temperature, Humidity, CO2 sensor installed <b>Remove:</b> Removes device from Device list <b>Water:</b> Water leak sensor installed <b>Refrig.:</b> Refrigerator temperature sensor installed <b>Freezer:</b> Freezer temperature sensor installed  <b>Choices:</b> 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
<b>Comm. status</b> Default value: <b>Not paired</b> <b>Read Only</b> <b>MSI212-402</b>	<b>Wireless Device X - Communication Status</b>  Shows if device is communicating with Room Controller  <b>Not paired:</b> Device not paired <b>Online:</b> Device paired and online <b>Invalid:</b> Device was paired and Room controller detected a communication error (selected function does not match paired sensor functionality). <b>Offline:</b> Device paired but offline  <b>Display Readings:</b> 1=Not paired, 2=Online, 3=Invalid, 4=Offline
<b>Battery</b> Default value: <b>None</b> <b>Read Only</b> <b>MSI211-401</b>	<b>Wireless Device X - Battery</b>  Shows current status of battery in wireless device.  <b>Display Readings:</b> 1=None, 2=Normal, 3=Low
<b>Addr.</b> <b>Read Only</b> <b>CSV11-30</b>	<b>Wireless Device X - Address</b>  Shows unique IEEE (MAC) address of ZigBee wireless device
<b>Status</b> Default value: <b>None</b> <b>Read Only</b> Door status: <b>BV1</b> Window status: <b>BV3</b> Water status: <b>BV46</b> Sensor type: <b>MSI180-199</b> Status: <b>MSI210-400</b>	<b>Wireless Device X - Sensor Type</b> <b>Wireless Device X - Status</b>  Shows the ZigBee wireless device status. Device status and values will be different depending on the type of device: <ul style="list-style-type: none"> <li>• <b>Door Contact Status:</b> 1=Closed, 2=Opened</li> <li>• <b>Window Contact Status:</b> 1=Closed, 2=Opened</li> <li>• <b>Motion Sensor:</b> No Motion, Motion</li> <li>• <b>Water Leak Sensor Status:</b> 1=Normal, 2=Leak</li> </ul> <b>Display Readings:</b> <b>Sensor Type:</b> 1=None, 2=Unknown, 3=Motion, 4=Contact, 5=Water, 6=Temp., 7=Temp./RH, 8=CO2 <b>Status:</b> 1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak
<b>Temperature</b> <b>Read Only</b> <b>AI315-324, 355-364</b>	<b>Wireless Device X - Temperature</b>  <b>Range:</b> -40 to 185 °F (-40 to 85 °C)
<b>Humidity</b> <b>Read Only</b> <b>AI365-384</b>	<b>Wireless Device X - Humidity</b>  Percent relative humidity  <b>Range:</b> 0 to 100 %
<b>CO2</b> <b>Read Only</b> <b>AI385-404</b>	<b>Wireless Device X - CO2</b>  Parts per million  <b>Range:</b> 0 to 5000 PPM

## DEVICE GROUPS

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

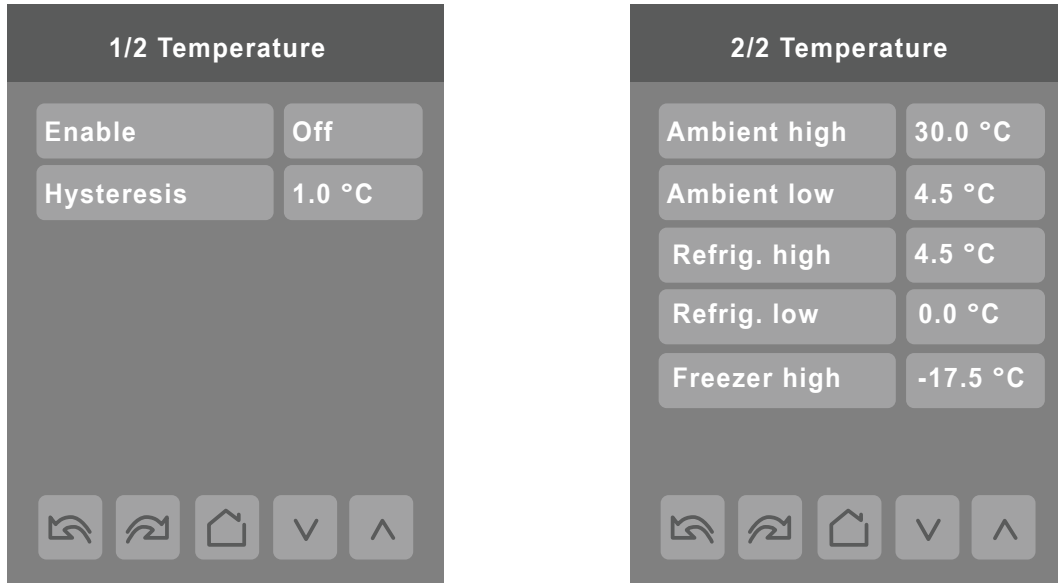


### PARAMETER DETAILS

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

## TEMPERATURE ALARMS CONFIGURATION

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

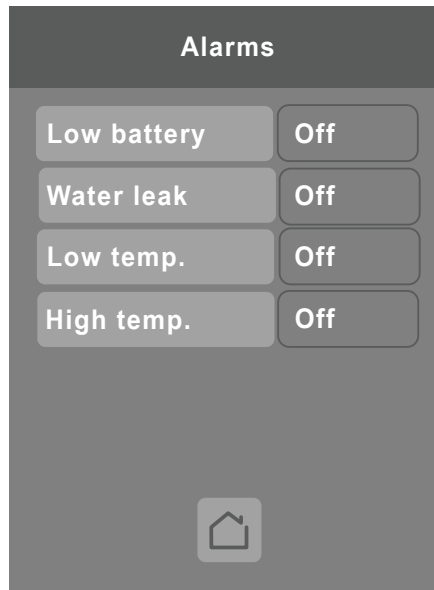


### PARAMETER DETAILS

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

## ALARMS

The Alarms screen shows data for paired Zigbee wireless devices.

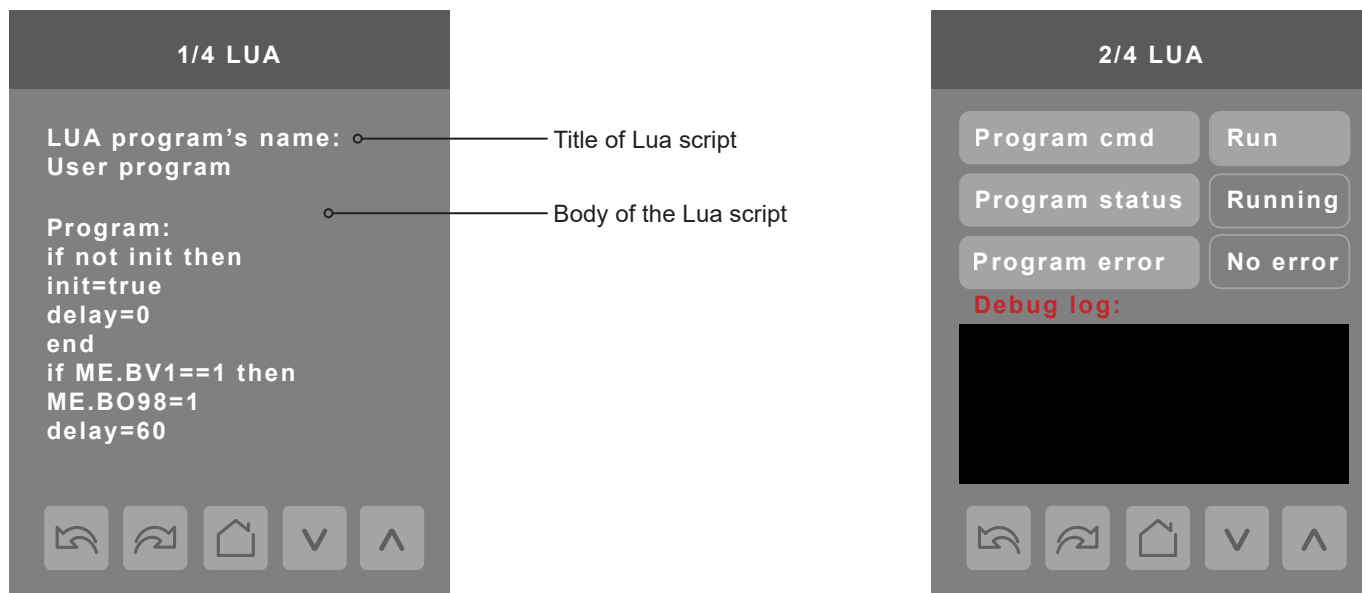


### PARAMETER DETAILS

Configuration Parameters Default Value	Significance and Adjustments
<b>Low battery</b> Default value: <b>Off</b> <b>Read Only</b> <b>BV5</b>	<b>Low Battery Alarm</b> Shows if any wireless paired device has a low battery status (On) or no paired device has low battery (Off). <b>Display Readings:</b> 1=Off, 2=On
<b>Water leak</b> Default value: <b>Off</b> <b>Read Only</b> <b>BV44</b>	<b>Water Leak</b> 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). <b>Display Readings:</b> 1=Off, 2=On
<b>Low temp.</b> Default value: <b>Off</b> <b>Read Only</b> <b>BV47</b>	<b>Low Temperature</b> 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). <b>Display Readings:</b> 1=Off, 2=On
<b>High temp.</b> Default value: <b>Off</b> <b>Read Only</b> <b>BV53</b>	<b>High Temperature</b> 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). <b>Display Readings:</b> 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.

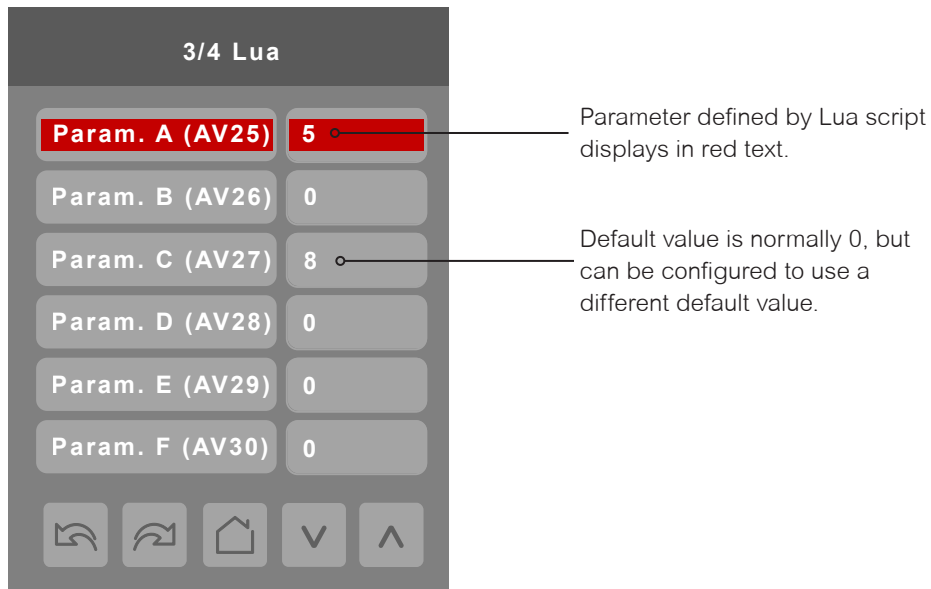


## PARAMETER DETAILS

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

## LUA GENERIC PARAMETERS

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



### PARAMETER DETAILS

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

## PARAMETER DETAILS

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

# SECTION 4

## Appendix A: Terminal Correspondence

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

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

# Technical Support



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

**North America (NAM) Product Support**  
Building Management Systems (BMS): [www.nampss.com](http://www.nampss.com)

**Global Product Support**  
Building Management Systems (BMS): [productsupport.BMS@schneider-electric.com](mailto:productsupport.BMS@schneider-electric.com)

**Schneider Electric**  
CS 30323  
F-92506 Rueil-Malmaison Cedex  
France

Schneider Electric is leading the Digital Transformation of Energy Management and Automation in Homes, Buildings, Data Centers, Infrastructure and Industries.

With global presence in over 100 countries, Schneider is the undisputable leader in Power Management – Medium Voltage, Low Voltage and Secure Power, and in Automation Systems. We provide integrated efficiency solutions, combining energy, automation and software.

In our global Ecosystem, we collaborate with the largest Partner, Integrator and Developer Community on our Open Platform to deliver real-time control and operational efficiency.

We believe that great people and partners make Schneider a great company and that our commitment to Innovation, Diversity and Sustainability ensures that Life Is On everywhere, for everyone and at every moment.

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