MultiSITE CRC2 Series Controllers
USER INTERFACE GUIDE

PREMTBVC2 – MultiSITE CRC2

PREMTBVC3 – MultiSITE CRC2+

PREMTBVC4 – MultiSITE CRC2+Z with Zigbee® Onboard

PROPRIETARY DATA NOTICE

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

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

The instructions included in this manual must be followed to prevent product malfunction, property damage, injury, or death to the user or other people. Incorrect operation due to ignoring any instructions will cause harm or damage. A summary of safety precautions begins on page 4.

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

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SAFETYINSTRUCTIONS

The instructions below must be followed to prevent product malfunction, property damage, injury or death to the user or other people. Incorrect operation due to ignoring any instructions will cause harm or damage. The level of seriousness is classified by the symbols below.

TABLE OF SYMBOLS

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

⚠DANGER

⃠ **Do not touch any exposed wiring, terminals, or other electrical components with tools or exposed skin. Only qualified technicians should install, use or remove this unit.**

Improper installation or use may result in fire, explosion, electric shock, physical injury and/or death.

⃠ **Do not use or store flammable gas or combustibles near the product.**

There is risk of fire, explosion, and physical injury or death.

⚠WARNING

The information in this manual is intended for use by a trained technician familiar with the U.S. National Electric Code (NEC) who is equipped with the proper tools and test instruments.

Failure to carefully read and follow all instructions in this manual may result in equipment malfunction, property damage, personal injury and/or death.

⃠ **Risk of electric shock. Disconnect all power before servicing.**

⃠ **Do not install the MultiSITE Controller unit if it will be exposed to rain or other precipitation.**

⃠ **Do not install the unit in a location exposed to open flame or extreme heat.**

⃠ **Do not touch the unit with wet hands.**

There is risk of fire, electric shock, physical injury and/or death.

Replace all control box and panel covers.

If cover panels are not installed securely, dust, water and animals may enter the unit, causing fire, electric shock, and physical injury or death.

Wear protective gloves when handling equipment.

Sharp edges may cause personal injury.

Dispose of any packing materials safely.

- *Packing materials, such as nails and other metal or wooden parts may cause puncture wounds or other injuries.*
- *Tear apart and throw away plastic packaging bags so that children may not play with them and risk suffocation and death.*

⃠ **Do not change the settings of the protection devices.**

If the pressure switch, thermal switch, or other protection device is shorted and forced to operate improperly, or parts other than those specified by LG are used, there is risk of fire, electric shock, explosion, and physical injury or death.

If the air conditioner is installed in a small space, take measures to prevent the refrigerant concentration from exceeding safety limits in the event of a refrigerant leak.

Consult the latest edition of ASHRAE® (American Society of Heating, Refrigerating, and Air Conditioning Engineers) Standard 15. If the refrigerant leaks and safety limits are exceeded, it could result in personal injuries or death from oxygen depletion.

The name "ASHRAE" and the ASHRAE logo are trademarks of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

⚠NOTE

MultiSITE Controller is for use with select LG commercial air conditioning systems only.
⃠ Do not attempt to use MultiSITE Controller with any other type of system. Refer to the compatible equipment list in this manual.
There is risk of equipment damage or degraded performance.

⃠ Do not cut, lengthen or shorten the cable between the MultiSITE Controller unit and the indoor unit.
⃠ Do not install the MultiSITE Controller unit in a location where the cable cannot be safely and easily connected between the two units.
⃠ Do not allow strain on this cable.
There is risk of equipment damage.

Note:

Clean up the site after all procedures are finished, and check that no metal scraps, screws, or bits of wiring have been left inside or surrounding the MultiSITE controller or indoor units.

Provide power to the outdoor unit compressor crankcase heaters at least six (6) hours before operation begins.
Starting operation with a cold compressor sump(s) may result in severe bearing damage to the compressor(s). Keep the power switch on during the operational season.

⃠ Do not block the indoor unit inlet or outlet.
Unit may malfunction.

Securely attach the electrical cover to the indoor unit. Non-secured covers can result in fire due to dust or water in the service panel.
⃠ Do not allow water, dirt, or animals to enter the unit.
There is risk of unit failure or degraded performance.

⃠ Do not spill water or other liquid on the inside of the indoor unit, especially on electrical components.
⃠ Do not drop the MultiSITE Controller unit into water. If the unit is immersed in water or other liquid, contact your local authorized LG distributor for support.
There is risk of unit failure or degraded performance.

MultiSITE CRC2 Series Controllers

This manual describes how to use the LG MultiSITE Commercial Remote Controllers (CRC) 2. There are three models of this controller:

- MultiSITE CRC2 (Model PREMTBVC2) - RH sensor
- MultiSITE CRC2+ (Model PREMTBVC3) - RH & motion sensor
- MultiSITE CRC2+Z (Model PREMTBVC4) - RH, motion & Zigbee®

The PREMTBVC2 and PREMTBVC3 can accomodate either an optional Zigbee®* Pro card to add Zigbee sensors or an optional WiFi card. The PREMTBVC4 has Zigbee® support onboard and can simultaneously accomodate an optional WiFi card.

Compatible Equipment

MultiSITE CRC2 Series Controllers are compatible with LG Commercial Air Conditioning indoor units (except PTAC units).
⃠ Do not attempt to use a MultiSITE CRC2 controller with any other equipment.

Safety

Safety of personnel is the primary concern during all procedures. Read and understand the safety summary at the front of this manual. Ensure the controller is installed in accordance with the appropriate LG installation manual.

Typical MultiSITE CRC2 Controller

⚠WARNING

If troubleshooting is required, it must be performed by trained personnel and in accordance with national wiring standards and all local or other applicable codes. Improper troubleshooting and repair/replacement of equipment can result in fire, electric shock, physical injury, and/or death.

⚠NOTE

Improper troubleshooting and repair/replacement of equipment can result in damaged equipment or degraded operation.

Accessories

These accessories are available for MultiSITE CRC2 Series controllers:

- Zigbee Pro wireless card — Model ZVRCZPWC2**
- Door and window switch — Model ZVRCZDWC1
- Wall mounted occupancy sensor — Model ZVRCZWOC1
- Ceiling mounted occupancy/ temperature/humidity sensor — Model ZVRCZMTH1
- Wall mounted temperature/relative humidity sensor — Model ZVRCZTRH1
- Wall mounted CO_2 /Temperature/relative humidity sensor — Model SEDCO2G5045
- Water leak sensor — Model ZVRCZWLS1
- Wi Fi card — Model VCM8002V504

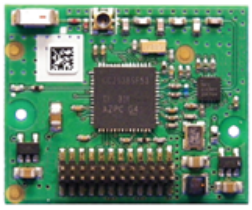
The ZigBee® Pro wireless card is required for communication between the controller and the other accessories

**Zigbee is a registered trademark of the Zigbee Alliance.*
***The ZVRCZPWC2 ZigBee Pro Wireless card is specific to the CRC2 and is not backwards compatible with CRC1 models.*

INTRODUCTION

MultiSITE CRC2 Controller Accessories

ZigBee® Accesories



ZigBee® Pro Wireless Card
ZVRCZPWC2

Door/Window Switch
ZVRCZDWC1

Wall Mounted
Occupancy Sensor
ZVRCZWOC1

Wall Mounted Temperature/
Relative Humidity Sensor
ZVRCZTRH1

Ceiling Mounted Occupancy/
Temperature/Humidity Sensor
ZVRCZMTH1

Water Leak
Sensor
ZVRCZWLS1

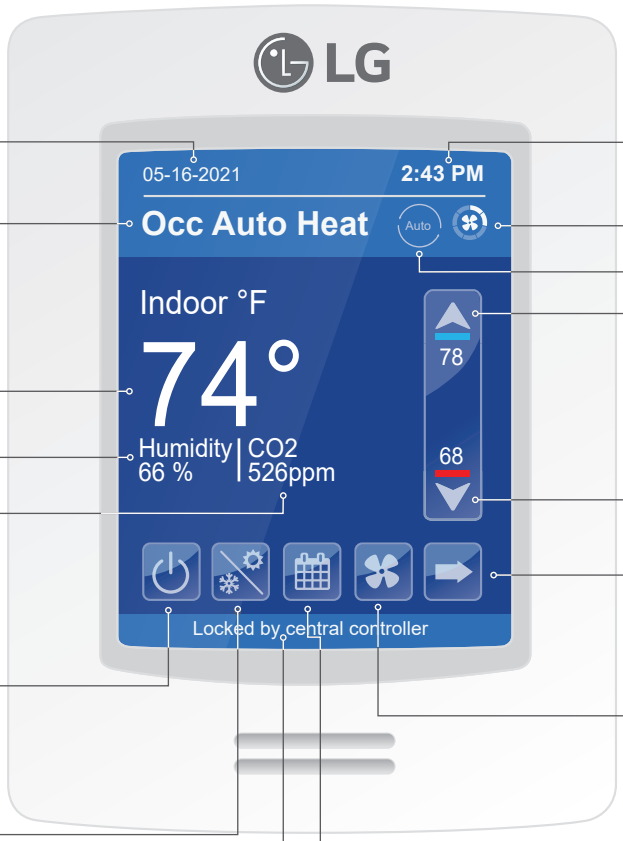
Wall Mounted CO_2 /
Temperature/Relative
Humidity Sensor
SEDCO2G5045

WiFi Accesories

WiFi Card
(BACnet IP)
ZVRCZPWC2

Home Screen

The controller home screen is shown and described below.



Current Date

Current Time

Occupancy Status
Occupied (Occ) or Unoccupied (Unocc)

Current Fan Speed Setting

Operation Mode Status

Up Arrow
Raise Temperature Setpoint

Room Indoor Temperature

Room Indoor Humidity

Room Indoor CO_2

Down Arrow
Lower Temperature Setpoint

More
Provides end user with access to less often used functions.

On/Off
Turn the display on or off

Fan Speed
Set fan to Slow, Low, Low-Med, Medium, Med-High, High, Power, Auto. (Available options depend on IDU model.)

Operation Mode
Set Cool, Heat, Auto Cool, Auto Heat, Fan, Dry modes

Note: Pressing and holding the Operation Mode icon takes the user to the Operation Mode page.

Schedule
Set weekly schedule

Short Network Message

Note: Long-press of the Fan Speed button when in cooling mode triggers Power Cooling mode. If in Power Cooling mode, segments surrounding fan icon turn purple and the text changes from “Fan” to “Power Cool.” This mode lasts for 30 minutes with a setpoint of 64°F and then reverts back to the previous fan speed and setpoint.

Note:

Available functions/features may differ based on the connected system.

When any change is made to a parameter, the value is automatically saved in memory when the next parameter is selected or another page is opened.

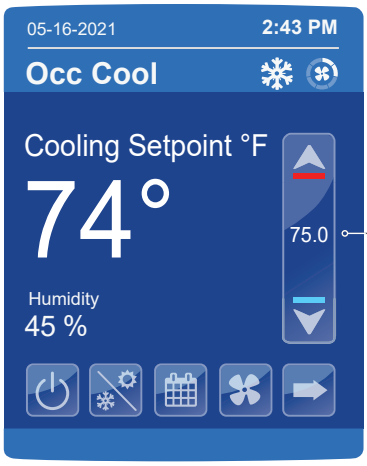
Arrows auto-increment/decrement at higher speed when holding button for more than 2.5 seconds.

CONTROLLER OVERVIEW

Operation Mode

A long-press of the Operation Mode button on the home screen will display the expanded mode selection page shown below. Selecting modes available on this screen places the IDU in that mode and then the user will be returned to the home screen. Selecting the mode that is currently highlighted will maintain the current mode and return the user to the home screen.

Setpoint Adjustment



Cooling mode or cooling only sequence of operation

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 display the occupied cooling setpoint while it is adjusted.

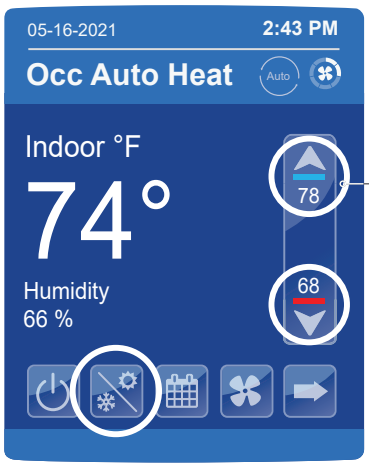
Normal temperature display resumes after the setpoint is adjusted and the actual occupied cooling setpoint is displayed in the setpoint bar.

Heating mode or heating only sequence of operation

In Heating mode, the setpoint displayed in the bar is the current occupied heating setpoint.

During occupied setpoint adjustment, the large digits are temporarily used to display the occupied heating setpoint.

Normal temperature display resumes after the setpoint is adjusted and the actual occupied heating setpoint is displayed in the setpoint bar.



Automatic Heating / Cooling mode

In Automatic mode, the setpoint displayed at the top of the set point bar represents the actual occupied cooling setpoint.

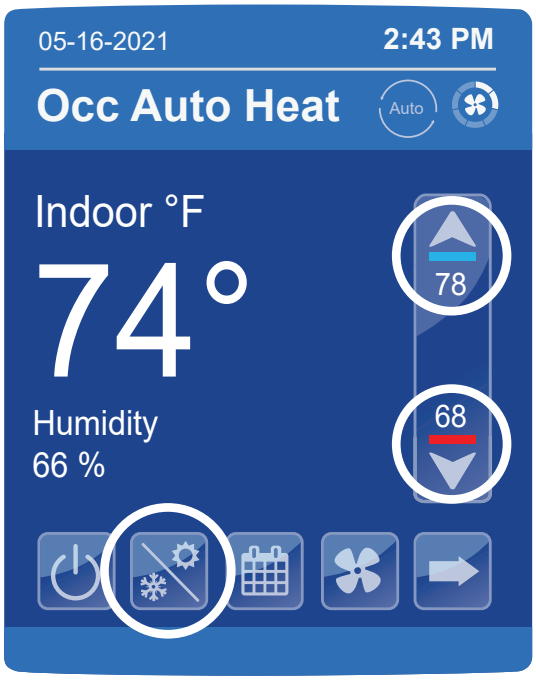
During occupied setpoints adjustment, the large digits are temporarily used to display the occupied “Cooling Setpoint” or occupied “Heating Setpoint”. The actual setpoint is dependent on the last effective demand (heating or cooling).

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

CONTROLLER OVERVIEW

Adjusting Setpoints in Auto Mode

Setpoints can be modified in three different ways when in Auto Mode: Cooling Setpoint change, Heating Setpoint change, or Cooling/Heating Setpoint change.
Changing setpoint while in Auto Mode for the current heating/cooling cycle has been simplified with the CRC2. Regardless of the current operating cycle, a change in setpoint is now applied to the current mode.



Auto Mode, Cooling Cycle, Cooling Setpoint (Dual Setpoint setting)

When in cooling cycle of Auto Mode, use the up and down arrows to raise or lower the cooling setpoint. When the setpoint is modified it will increase or decrease the difference between the cooling and heating setpoint values. The minimum difference allowed between cooling and heating setpoints is determined by the Dual Setpoint Deadband control value setting (found in the Installer/Temperature Settings screen). "Cooling Setpoint" shows as indicated on the screen to the left.

Auto Mode, Cooling Cycle, Heating Setpoint (Dual Setpoint setting)

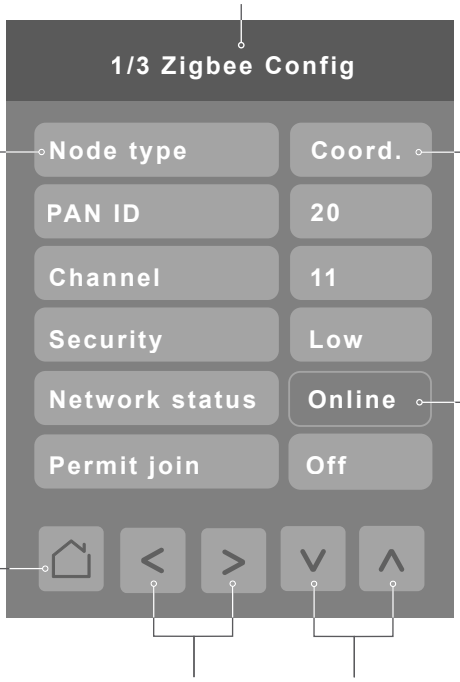
To change the heating setpoint when in Auto Mode, cooling cycle, tap the up or down arrows to place the controller into set point configuration mode and then immediately tap the Mode button once to change to heating set point mode. "Heating Setpoint" shows when this parameter is set. Immediately move back to the set point up or down arrows to change the heating set point.

Auto Mode, Cooling Cycle, Cooling/Heating Setpoint (Dual Setpoint setting)

To change the cooling and heating setpoints simultaneously, a third option is available for adjusting setpoints. If in Auto Mode (either cooling or heating cycle), tap either the up or down set point buttons, then immediately tap the Mode button until “Cool/Heat Setpoint” shows, indicating that the controller is in the correct set point mode. Immediately move back to the up or down set point buttons to change the set points as desired.

Using the Controller Configuration Screens

Some of the buttons on the Home screen display configuration screens. Controller operating parameters can be set as necessary for your system. The figure below describes how to use the configuration screens.



Controls

The left side of the screen lists controls and monitored parameters.

Control Values

The right side of the screen is a button you can tap to change the value of the control or parameter displayed to its left.

Read Only

Dark gray buttons are read only. These values can't be changed by the user.

Back Button

Tapping this button goes back one level in the screen hierarchy.

Left/Right Arrows

The left and right arrows move between screens on the same level as the currently-displayed screen.

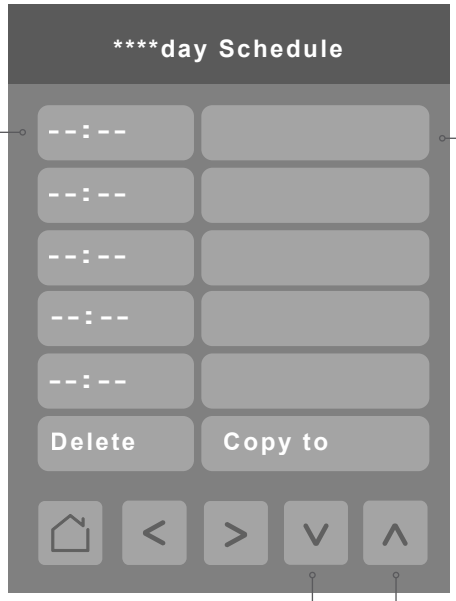
Up/Down Arrows

The up and down arrows are used to change the value of the active (highlighted) control.

CONFIGURATION SCREENS

Schedule Screen

Press the Schedule button  on the Home screen to display the Schedule Screen. There are different schedule setting screens, one for each day of the week (7 days) titled accordingly. Each can have different scheduled events where the room controller is set for set point, system mode, fan speed and occupancy status. Five (5) separate events can be configured per day. The CRC2 now supports the ability to disable all schedules without deleting them via Disable schedules control on the More screen.



Tap the left-hand button to set the time for scheduled event. When the time for a new event is configured, the default system mode of "Off" will appear in the event overview portion of the control on the right side.

Tap the right-hand side button to enter the next screen.

Adjust the time in the left column by pressing on the Up and Down arrows. To configure the System mode for the time selected tap on the right column.

This typical schedule screen shows the parameters that can be adjusted for a specific time and day in a week.

Up to 5 separate events per day can be configured. User can set cooling and heating set points, system mode (Off, Dry, Cool, Heat, Fan and Auto), fan speed and Occupied/Unoccupied status.

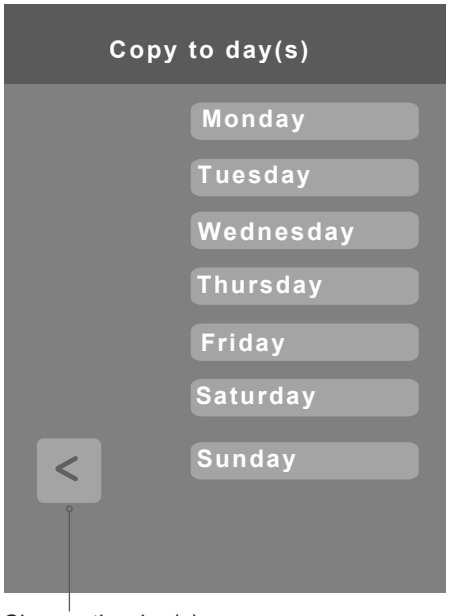
Once the event has been fully configured, press the left arrow to be returned to the daily schedule overview screen.

Daily Schedule Screens – continued

To modify an existing event, tap either the left side control to edit the time or tap the right-hand side of the control to re-enter the event screen and make your desired changes.

If desired, use the 'Copy to' button to copy the schedule to another day of the week. First choose the time of the event you want to copy and then choose 'Copy to'.

To delete an event, tap the time of the event and then tap the Delete button.



Choose the day(s) you want to copy the event to and then press the left arrow.

Event Overview Display	Parameter Meaning
First Letter	Mode (O=off, C=cool, H=heat, F=fan, A=auto, D=dry)
Second Number(s)	Set Point(s)
Third Letter	Occupancy Status (U=unoccupied, O=Occupied)
06:00AM Example (above): A: 74 / 70 : O = Auto Mode, Upper setpoint of 74, Lower setpoint of 70, Occupied	

Parameter	Parameter Settings	Definition
Setpoint cool	Range: 50-99 °F Default value: **78°F**	Range of cooling setpoint values
Setpoint heat	Range: 40-90 °F Default value: **68°F**	Range of heating setpoint values
System mode	Choices: Off, Cool, Heat, Fan, Auto, Dry Default value: **OFF**	System modes
Fan Speed	Choices: Slow, Low, Low-Med, Medium, Med-High, High, Power, Auto Default value: **Low**	Fan speed settings
Occ./Unocc.	Choice: Unoccupied, Occupied Default value: **Unoccupied**	Selection of unoccupied or occupied for the conditioned space

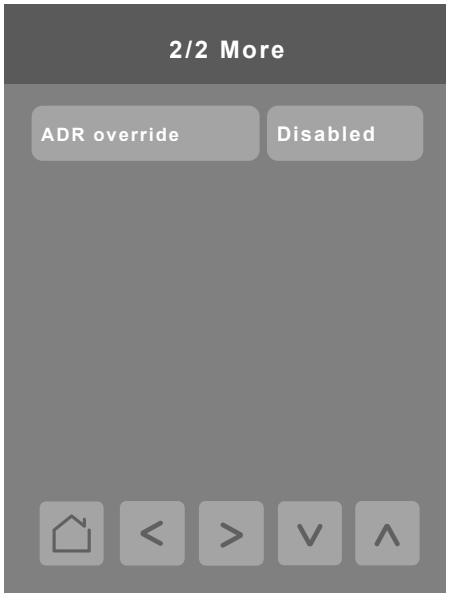
CONFIGURATION SCREENS

More Screens

Press the More button  on the Home screen to display the More screen.

Language
Use the up and down arrows to select English, French, or Spanish

Temp Units
Allows you to switch between Celsius and Fahrenheit



Parameter	Parameter Values	Definition
Language	English, French, Spanish Default value: **English**	Selects the language for the controller display
Temp Units - (12)	0 = "°C (0)", 1 = "°F (1)" Default value: °**F**	Selects Celsius degrees or Fahrenheit degrees
Aux Heat	0 = "Off", 1 = "On" Default value: **Off**	Controls the auxiliary heater when Aux Heat Cntrl (21) is enabled
Outside Air - Vent.	0 = "Off", 1 = "On" Default value: **Off**	Controls the outside air ventilation when Out_Air_ Vent(24) is enabled
Plasma Purifier	0 = "Off", 1 = "On" Default value: **Off**	Controls the plasma purifier when Plasma Kit (20) is enabled
Disable schedules	0 = "Off", 1 = "On" Default value: **Off**	Allows all existing local schedules to be disabled without having to remove them. This option is available only if a schedule has been set on the remote controller.
ADR override	0 = "Disabled", 1 = "Enabled" Default value: **Disabled**	Provides method to override ADR when active. Utility penalties may apply if ADR override is used.

More Screens – continued

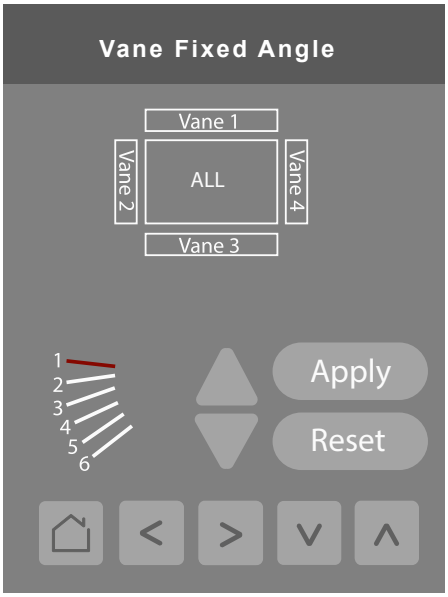
Press the right arrow button to display these screens. To adjust vane angle, user selects vane(s) by tapping vane icon at the top of the screen, adjusts vane angle by using up/down arrows and then selects Apply button.

Note:

Vane fixed angle control for 4 vane, 2 control type IDUs occurs in pairs. Refer to the Vane Fixed Angle screen. If a 4-louver device is identified, when the user chooses Vane 1 or Vane 3 control, the opposite vane (Vane 3 or Vane 1) will be controlled at the same time. If Vane 2 or Vane 4 is selected, Vane 4 or Vane 2 will be controlled in lockstep with its matching pair as well. The same control behavior holds for a 2-louver device.

Vane fixed angle control for 4 vane, 4 control type IDUs does not occur in pairs and can be set independently for each vane. In both cases, selecting ALL on the graphic will cause all vanes to be set to the same angle.

Airflow Up / Down and **Airflow Left / Right** controls can both be "On" at the same time. However, when **Airflow Circular** control is "On," both of the other two controls will be set to "Off."



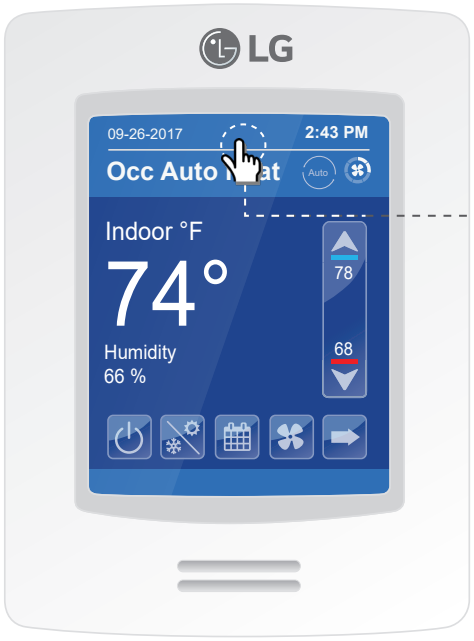
Parameter	Parameter Settings	Definition
Airflow Up / Down	Choices: 0 = "Off", 1 = "On" Default value: **Off**	Selects the vane direction of the airflow, up and down
Airflow Left / Right	Choices: 0 = "Off", 1 = "On" Default value: **Off**	Selects the vane direction of the airflow, left and right
Airflow Circular	Choices: 0 = "Off", 1 = "On" Default value: **Off**	For 4-way cassette IDUs only. Selects circular vane direction
Airflow Smart	Choices: 0 = "Off", 1 = "On" Default value: **Off**	For 4-way cassette IDUs only. Selects smart airflow vane direction.
Airflow Refresh	Choices: 0 = "Off", 1 = "On" Default value: **Off**	For 4-way cassette IDUs only. Selects refresh airflow vane direction
Apply		Sends the vane angle selected with the up and down arrow keys to the IDU
Reset		Sets all vane angles to the default position of "3"

CONFIGURATION SCREENS

Configuration Screens

These screens are more commonly used during installation, system configuration, or troubleshooting than by an end user. There is no icon on the Home screen to access these configuration screens. You must press and hold the area of the screen indicated on the diagram below to access the first screen.

If a configuration / installer password is activated to prevent unauthorized access to the configuration menu parameters, a password entry prompt will appear to prevent access to the device configuration components.



Configuration Main Screens

There are two main configuration screens as shown below. Press the left and right arrow buttons to move between these two screens. Press a button on a screen to display the parameter selections for that item.

Enter Display, Date & Time, Filter, Setpoints, Override, Setback and Outdoor Unit configuration

Enter General, Temperature, Fan and Heat settings and Accessories configuration

Enter BACnet®, Zigbee, and wi-fi settings

Enter Zigbee wireless zone configuration settings.

Lua® scripting

Automated Demand Response

View Diagnostic Parameters

Setup a password to restrict/allow access to the thermostat

Reverts all controller control settings back to default values.

Note: *Users will be given the option to confirm that they wish to proceed. Once in the Factory Default screen, if user proceeds with this step, all schedules and current controller settings including time and date will be cleared. Settings cannot be recovered after a Factory Default has been performed.*

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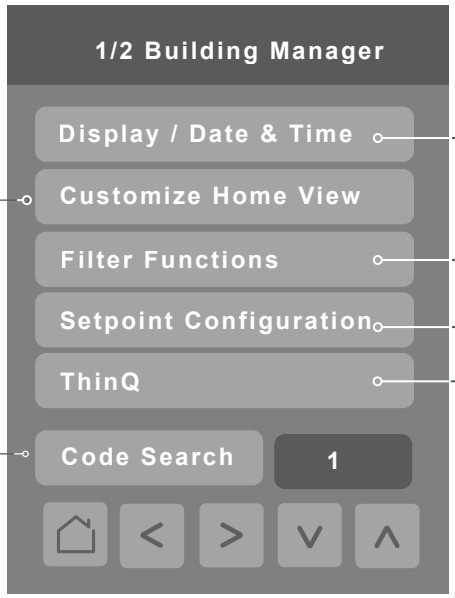
CONFIGURATION SCREENS

Building Manager

Building Manager Screens

There are two main configuration screens as shown below. Press the left and right arrow buttons to move between these two screens. Press a button on a screen to display the parameter selections for that item.



Customize Home View
Hide On/Off, Mode, Schedule, More, Set Temp, Space Temp, Fan, Humidity, CO_2, and Air Quality options on home screen.

Code Search
Use the Up and Down arrows to choose an available Function Code and select the Code Search button to navigate to the screen where that function code resides.

Codes can be found in brackets next to a parameter throughout all menus. This function is used for quicker menu navigation.

Override Setup
If controller is in the unoccupied mode then the controller enters Override mode when the user taps the screen the first time.
Select this control to configure settings for Override including set points, system mode, fan speed and duration of override.

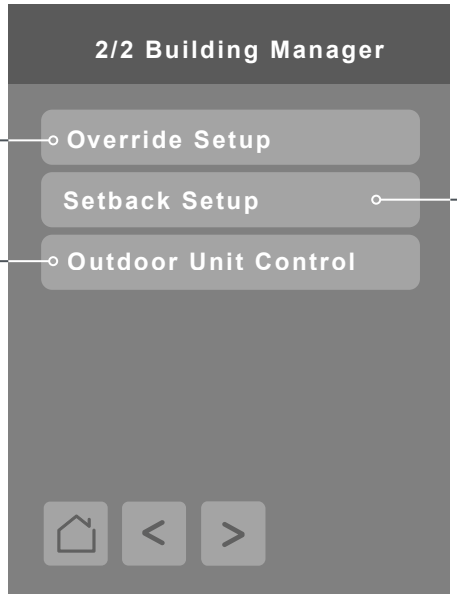
Outdoor Unit Control
Manage outdoor unit functions through the Controller's interface.

Display Basic Settings – Date / Time, Display Color, Standby Screen, Contrast, Low Backlight

Filter Functions – Clear Filter Alarm, Remaining Time, Lower/Raise Grill, Robot Cleaning

Setpoint Configuration
Choose between Single/Dual set point(s) and configure set point max/min limits.
Note: *Available functions/features may differ based on the connected system.*

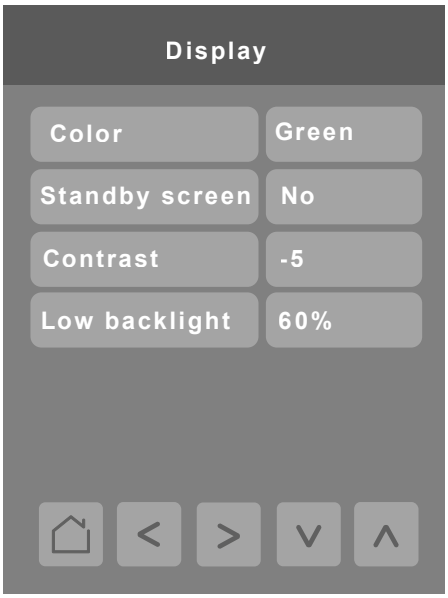
LG ThinQ® – Displays the LG ThinQ screen. Allows pairing of the controller and the LG ThinQ smartphone app. The LG ThinQ app allows air conditioner control from the smartphone.



Setback Setup
Setback settings are configurable with this control including set points, system mode and fan speed.

Display/Date and Time Settings

Press the Display / Date & Time button on the Building Manager screen to show the Display menu screen.
Press the right arrow button on the Display menu screen to show the Date & Time screen.



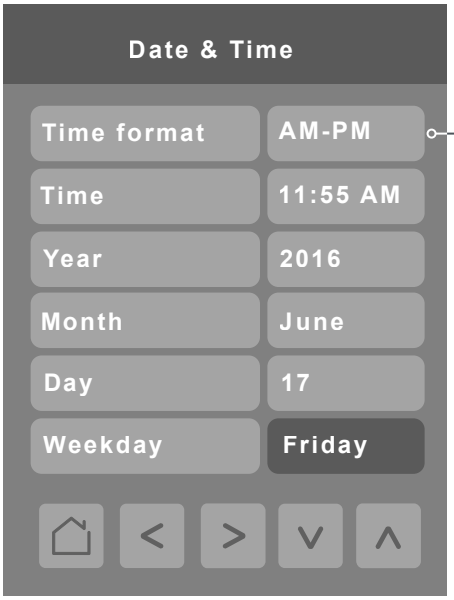
Parameter	Parameter Settings
Color	Choices: White, Green, Blue, Dark Grey, Grey, Pink, Purple, Red, Orange, Black Default value: **White**
Standby Screen	Choices: No, Yes, Occ Only, Screen Sav Default value: **No**
Contrast	**Display Contrast** Set contrast of display by using the up and down arrows. Adjustable: -5 to 5. Default value: **-5**
Low backlight	**Backlight Display** Set display backlight intensity after 2 minutes of keyboard inactivity. Adjustable: 0 to 100%. Default value: **60%**

CONFIGURATION SCREENS

Building Manager

Display/Date and Time Settings – continued

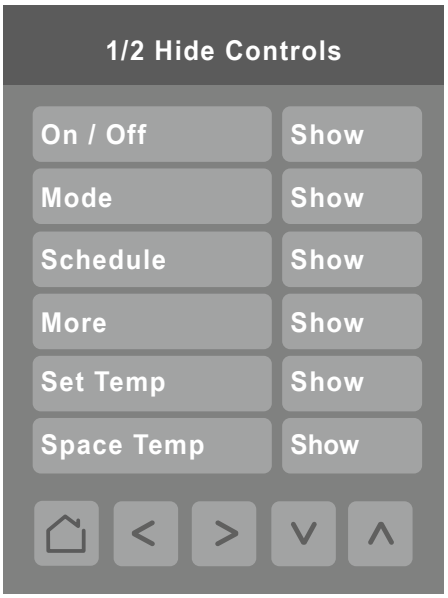
Press the right arrow button on the Display screen to show the screen below. The Clock settings screen allows the device's internal time settings to be changed, including current time, standard day, month, year and weekday options, as well as the choice between a 12 hour AM / PM display or a 24 hour display. Using the Up and Down arrows adjust the Time, Year, Month and Day parameters. The Weekday is automatically filled by the system and it cannot be adjusted.



Select between a 12 or 24-hour format.

Customize Home View

Press the Customize Home View button on the Building Manager Screen to select the Hide Controls menu screen. The Hide Controls menu is used to select which parameters are displayed on the home screen of the thermostat. You can select which parameter to show or hide by tapping it and then using the Up and Down arrows. By default, all parameters are shown on the main screen.



Select between the Show and Hide options.

Note: CO2 source must also be selected in Config/Installer/ Accessories section

When set to Show, and Air Quality is detected as either bad or unhealthy, this status will show at bottom of home screen.

Filter Functions

Press the Filter Functions button on the Building Manager screen to display the Filter Functions screen. The Filter Functions menu displays the time and alarm parameters. These cannot be adjusted by the user.

The time is measured in hours.
Maximum value is 2400.

Parameters	Parameter Settings
Filter Remain (Hrs)	Range is: 2400 - 0 Default value = N/A
Filter alarm	“Filter OK” “Service Fltr!” Default value = N/A

CONFIGURATION SCREENS

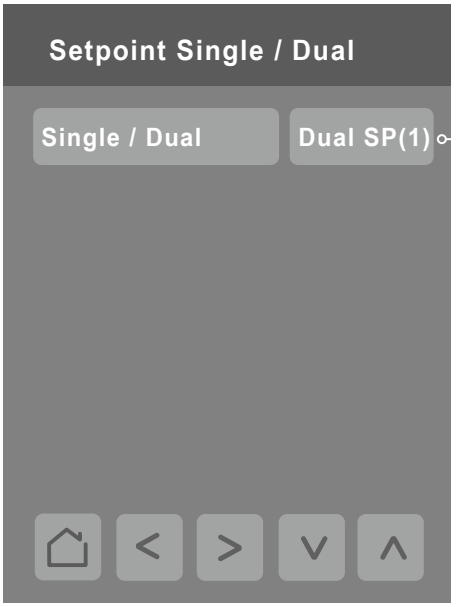
Building Manager

Setpoint Configuration

Press the Setpoint Config button on the Building Manager Screen to display the Setpoints Configuration screen. Press the Single/Dual button to select single or dual setpoint operation.

Note: *If changes are made to Deadband and Setpoint Min/Max values after scheduled events have already been added to the Schedule Event table, the new rules will be enforced only when the user enters back into the Schedule Editor.*

If setpoint max./min. values are not visible, this indicates that central control (CC) has issued a command for more restrictive values and that the CRC2 is now following CC. To re-enable these controls, CC limits must exceed values of remote controller. When not visible, a read only copy of the setpoint max./min. controls can be viewed in the Basic Diagnostic section to observe the CC issued setpoint max./min. values.

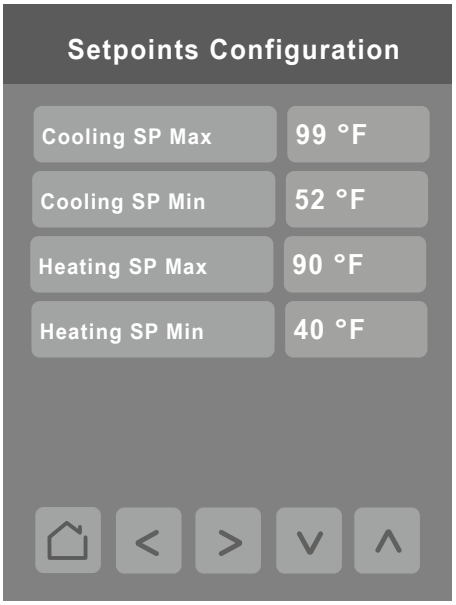


Press up or down arrow keys below to select between Single or Dual set point modes.

Note: *Available functions/ features may differ based on the connected system.*

Single Setpoint Mode

Dual Setpoint Mode



Parameters / Default Value	Parameter Settings
Single/Dual Default value: Dual SP(1) Default value can be changed by user	**Single SP** (Single Setpoint Adjustment) Setpoint Maximum is 86 °F Setpoint Minimum is 60 °F
	Dual SP (Dual Setpoints Adjustment) Maximum upper cooling temperature is 99 °F Minimum lower cooling temperature is 50 °F Maximum upper heating temperature is 90 °F Minimum lower heating temperature is 40°F

ThinQ

Press the ThinQ button on the Building Manager Screen to display the ThinQ Configuration screen.

ThinQ
Tap the ". . . " button to put the wi-fi module in pairing mode..The control will update momentarily to indicate the command was sent.

CONFIGURATION SCREENS

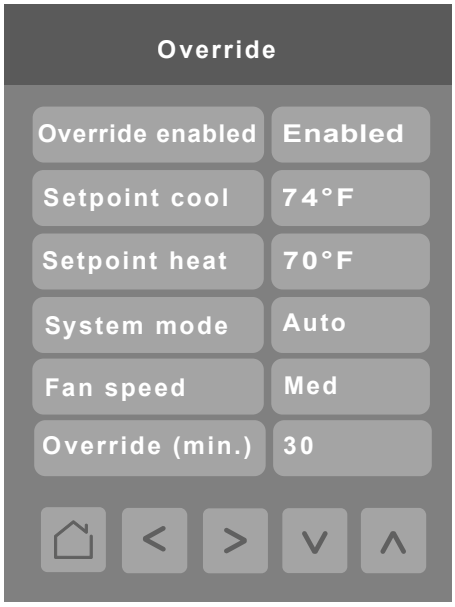
Building Manager

Override Setup

Press the Override Setup button on the Building Manager screen to display the Override Setup screen. The user can configure override settings including set points, system mode, fan speed and override duration.

Override Operation

Override mode can only be activated if the current system status is Unoccupied. If this condition is met, the controller will enter Override mode as soon as the user taps the screen the first time (from dim state). If the user makes any changes to the settings, those are accepted and the controller stays in Override mode. When the override timer expires, the controller returns to the original settings (Mode, Fan Speed, Set Points) in effect prior to entering Override. If a scheduled event starts during Override mode, the controller accepts the scheduled event and exits Override mode.



Parameter	Parameter Settings
Override enabled	When disabled, override logic will not be triggered when a user taps the home screen during unoccupied status. Default value: Enabled
Setpoint (Single Setpoint)	Range: Heating Mode: 60-86 °F Cooling Mode: 64-86 °F Auto Mode: 64-86 °F Default value: **72°F**
Setpoint cool (Dual Setpoint)	Range: 50-99 °F Default value: **78°F**
Setpoint heat (Dual Setpoint)	Range: 40-90 °F Default value: **68**°F
System mode	Choices: Off, Cool, Heat, Fan, Auto, Dry Default value: **Auto**
Fan Speed	Choices: Low, Medium, High, Auto Default value: **Medium**
Override	Temporary occupancy override for controller Adjustable: 30 to 240 minutes Default value = **30 minutes**

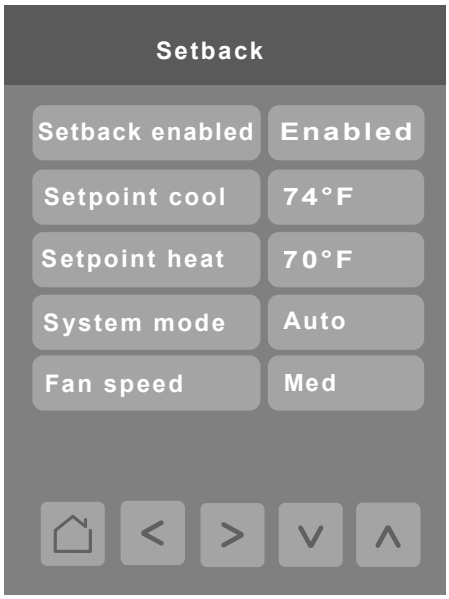
Default Parameters are dependent on if the controller is in Single Setpoint Mode or Dual Setpoint Mode.

Setback Setup

Press the Setback Setup button on the Building Manager screen to display the Setback Setup screen. Setback parameters including set points, system mode, and fan speed are configured on this screen.

Setback Operation

If the controller is in Setback mode and the user changes the Mode, Fan Speed or Set Points, the controller exits Setback mode and keeps settings as applied by the user until the next scheduled event occurs. Setback mode can also be exited if the user presses the Setback mode button again from the Operation Mode screen while in Setback mode. The setback icon on the Operation Mode screen will indicate if that mode is active or not.



Parameter	Parameter Settings
Setback enabled	When enabled, setback logic will not be triggered during unoccupied status. Default value: enabled
Setpoint (Single Setpoint)	Range: Heating Mode: 60-86 °F Cooling Mode: 64-86 °F Default value: **72°F**
Setpoint cool (Dual Setpoint)	Range: 52-99 °F Default value: **78°F**
Setpoint heat (Dual Setpoint)	Range: 40-90 °F Default value: **68**°F
System mode	Choices: Auto, Dry, Off, Cool, Heat, Fan Default value: **Auto**
Fan Speed	Choices: Low, Medium, High, Auto Default value: **Medium**

Default Parameters are dependent on if the controller is in Single Setpoint Mode or Dual Setpoint Mode.

CONFIGURATION SCREENS

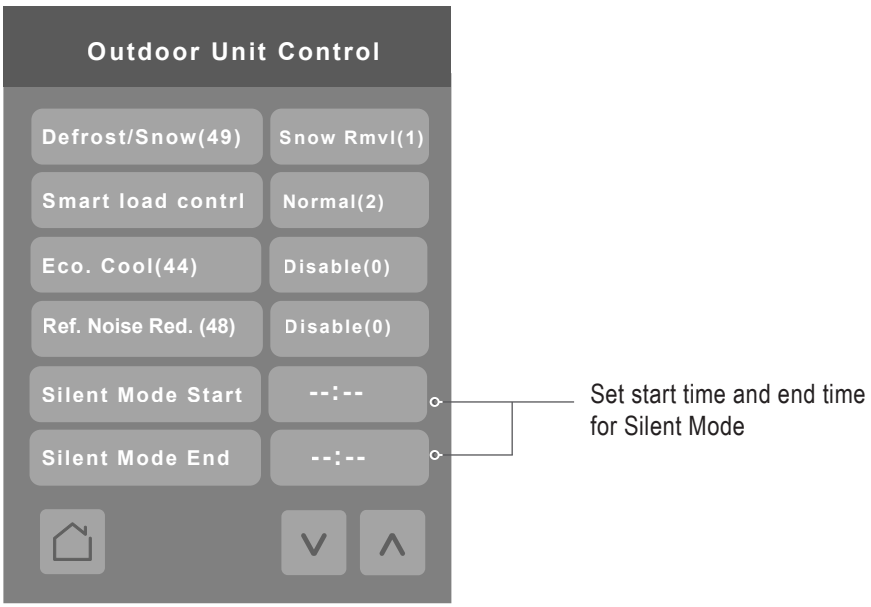
Building Manager

Outdoor Unit Control

Press the Outdoor Unit Control button on the Building Manager screen to display the Outdoor Unit Control screen. The Outdoor Unit Control lets you manage outdoor units through the controller interface.

NOTE:

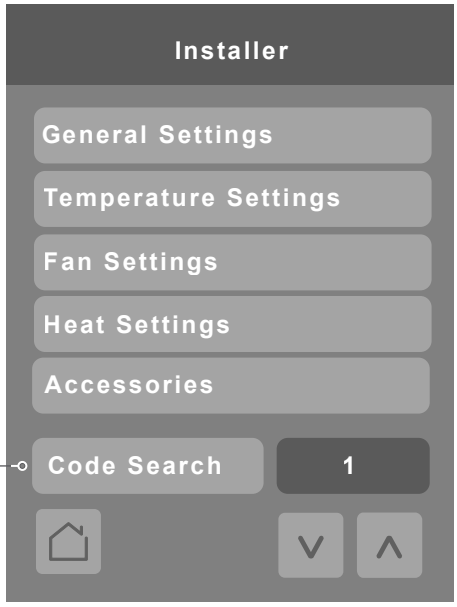
For the first four controls to be visible, ODU Mode - M/S(47) control must be set to "Master(1)." For the Silent Mode Start/End controls to be usable, Silnt Mde Cntrl Loc control on Configuration/Installer General 4/4 screen must be set to "Remote(1)."



Parameter	Parameter Settings	Definition
Defrost/Snow(49)	0 = "Disable (0)" 1 = "Snow Rmvl (1)" 2 = "Fast Dfrst (2)" 3 = "Both (3)" Default value = **Disable(0)**	Enables the defrost function to remove snow from the outdoor unit
Smart load contrl	0 = "Disable (0)" 1 = "Efficient (1)" 2 = "Normal (2)" 3 = "Power (3)" Default value = **Disable(0)**	Changes target/head suction pressure to maximize energy savings and minimize time to set point
Eco. Cool(44)	0 = "Disable (0)" 1 = "Low-Savings (1)" 2 = "Mid-Savings (2)" 3 = "Hi-Savings (3)" Default value = **Disable(0)**	
Ref. Noise Red.(48)	Choices: Disable(0), Mode 1 (1), Mode 2 (2) Default value = **Disable(0)**	Reduces the refrigerant noise during the initialization of the indoor unit in heating mode.
Silent Mode Start/End	Default value = "**--:--**"	Time of day in either AM/PM or 24 hr. format (depending on control setting in Display / Date & Time section)

Installer

Press the Installer button on the Configuration screen to display the Installer screen. The Installer menu lists the controller's setup parameters and the accessories menu.



Code Search

Use the Up and Down arrows to choose an available Function Code and select the Code Search button to navigate to the screen where that function code resides.

Codes can be found in brackets next to a parameter throughout all menus. This function is used for quicker menu navigation.

CONFIGURATION SCREENS

Installer

General Settings

There are four Installer / General Settings screens. Press General Settings on the Installer screen to display the first General Settings screen. Press the right arrow on the screen to display screens 2, 3, and 4.

This value will be used to decide if Auto mode appears in the Operation Mode screen and whether to show “Auto” text at the top of the Home screen during Auto operation mode.

Parameter	Parameter Settings	Definition
Central Controller Add. Group(2)	Choices: 0 - F Default value = **0**	Assigns a unique hexadecimal address when used with a central controller
Central Controller Add. Unit(2)	Choices: 0 - F Default value = **0**	Assigns a unique hexadecimal address when used with a central controller
Auto mode	Choices: Enable, Disable Default value = **Disable**	Enables Auto mode on Home screen. Auto mode is available only when the IDU is a master unit (function code 8).

Parameter	Parameter Settings	Definition
ODU Mode - M/S (47)	0 = “Slave (0)” 1 = “Master (1)” Default value = **Slave (0)**	Sets the ODU as a master or slave unit. Outdoor unit controls are available only when the ODU is configured as master.

Use this function to enable or disable Group Control for the system.

Use this function to enable or disable Indoor Unit Auto Start.

Using the Up and Down arrows select between Heating, Cooling or Off modes. The Test run will end after 18 minutes and then turn system off. Test mode can be interrupted by changing fan speed, set point, or turning off the IDU from the home screen.

Using the Up and Down arrows select a guard time of 0, 15, 30, 45 or 60 minutes.

Parameter	Parameter Settings	Definition
Test run(1)	Choices: Off(0), Cooling(1), Heating(2) Default value = **Off**	Initiates an IDU test mode
IDU Mode - M/S(8)	Choices: Slave(0), Master(1) Default value = **Slave(0)**	Sets the IDU as a master or slave unit
Grp Cntrl Funcs(19)	Choices: Disable(0), Enable(1) Default value = **Disable(0)**	Enables additional common functions across IDUs when configured in group control
Guard Timer(33)	Choices in minutes: 0 min(0), 15 min(1), 30 min(2), 45 min(3), 60 min(4) Default value = **15 min(1)**	Protects the compressor against repetitive and short duration changes in system mode
IDU Auto Start(39)	Choices: Enable(0), Disable(1) Default value = **Enable(0)**	Turns on the IDU automatically after power is restored to the IDU

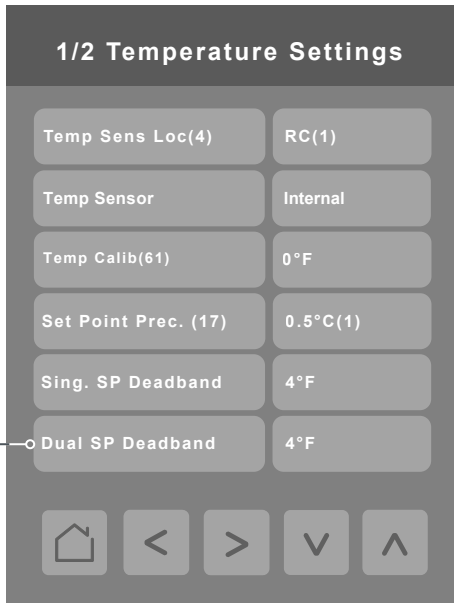
CONFIGURATION SCREENS

Installer

Parameter	Parameter Settings	Definition
Silnt Mde Cntrl Loc	Choices: 0 = "ODU(0)" 1 = "Remote1(1)" Default value = **ODU(0)**	Reduces the refrigerant noise during IDU initialization in heating mode
ODU Cyc Prio (56)	Choices: “Disable” “Standby(1) “Prio Cool(2)” Default value = “**Disable**”	When ODU Cyc Prio(56) is set to Standby(1) on the CRC2, if the ODU is in cooling mode and the slave IDU calls for heating, the slave IDU goes thermal off and stays in cooling mode. When ODU Cyc Prio(56) is set to Priority Cool(2) on the CRC2, if the ODU is in heating mode and the slave IDU calls for cooling, the IDU will wait the amount of time set by Therm Off Delay(56) after the master IDU is heating thermal satisfied and the ODU will then switch to cooling mode.
Therm Off Delay (56)	Choices: “45 min(0)” “30 min(1)” “60 min(2)” “90 min(3)” “120 min(4)” Default value = “**45 min(0)**”	Time duration for IDU thermal off delay.

Temperature Settings

Press the Temperature Settings button on the Installer screen to display the Temperature Settings screen. Press the right arrow button to display the second page of the Temperature Settings screen.



Minimum deadband value between the heating and cooling setpoints. Applied only when any of the setpoints are modified. Range is 1 °F - 10 °F

Parameter	Parameter Settings	Definition
Temp Sens Loc (4)	1 = “RC” (1)”, 2 = “IDU (2)”, 3 = “2TH (3)” Default value = **RC(1)**	Selects between sensing temperature at the remote controller RC(1), the indoor unit IDU(2), or both sensors 2TH(3)
Temp Calib (61)	Range: -9 ~ +9 degree adjustment Default value: **0°F**	Provides an adjustment for room temperature value as reported by onboard sensor.
Setpoint °C Prec. (17)	1°C(0), 0.5°C(1) Default value = **1°C(0)**	Chooses whether to display Celsius temperatures with 0.5 degree resolution or not
Single SP Deadband	1 = “2°F (1)” 5 = “10°F (5)” 2 = “4°F (2)” 6 = “12°F (6)” 3 = “6°F (3)” 7 = “14°F (7)” 4 = “8°F (4)” Default value = **Dual SP** (when supported)	Differential temperature between the heating setpoint (the value chosen as your setpoint) and cooling setpoint
Heat Therm(15)	0 = “Default (0)” 1 = “8°F/12°F (1)” 2 = “4°F/8°F (2)” 3 = “-2°F/2°F (3)” 4 = “-1°F/1°F (4)” Default value = **Default(0)**	Provides an adjustable band around the heating setpoint through selectable heating thermal on/off values
Cool Therm(27)	0 = “1°F/-1°F (0)” 1 = “12°F/8°F (1)” 2 = “8°F/4°F (2)” 3 = “2°F/-2°F (3)” Default value = **1°F/-1°F (0)**	Provides an adjustable band around the cooling setpoint through selectable cooling thermal on/off values

CONFIGURATION SCREENS

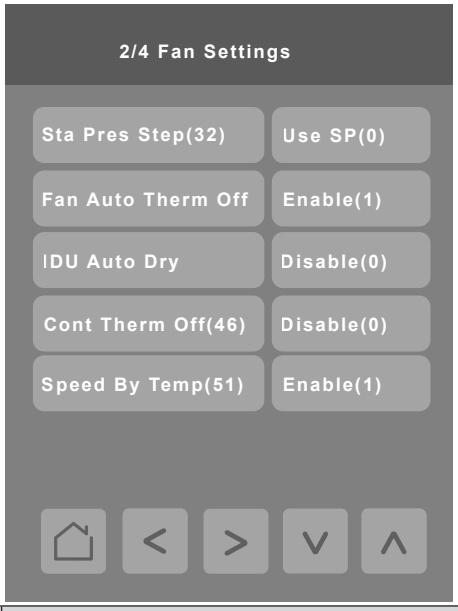
Installer

Fan Settings

Press the Fan Settings button on the Installer screen to display the Fan Settings screen.

Press the right arrow button to display the second page of the Fan Settings screen.

To set static pressure for ducted IDUs, press the right arrow button on the second fan settings screen to display the third fan settings screen.



Parameter	Parameter Settings	Definition
Fxd Fan Speed(11)	Choices: IDU Cntrl (0), No Chng (1) Default value = **IDU Cntrl(0)**	Selects a fixed fan speed
Fan/Vnt inter(38)	Choices: Fan Off (0), Fan Slow (1) Default value = **Fan Off(0)**	For cassette IDUs only. Provides option for slow fan speed when ventilation interlocking is present to prevent dust on filter blowing back into the conditioned space
Cool Therm Off(35)	Choices: Fan Low (0), Fan Off (1), No Chng (2) Default value = **Low(0)**	Turns fan off during cooling thermal satisfied
Ceiling height(5)	Choices: 0 = 8.8-10.6' (0) 1= < 8.8' (1) 2 = 10.5 – 11.8' (2) 3 = 11.9-13.8' (3) Default value = **8.8-10.6'(0)**	Selects the height of the room for proper indoor unit operation
Static pressure(6)	Choices: 1 = "Var. H (1)", 2 = "Fixed H (2)", 3 = "Var. L (3)", 4 = "Fixed L (4)" Default value = **Fixed H(2)**	For ducted IDUs only. Provides four coarse adjustments in static pressure
Sta Pres Step(32)	Choices: 0 = "Use SP (0)" 1 = "SPS 1 (1)" 2 = "SPS 2 (2)" 3 = "SPS 3 (3)" 4 = "SPS 4 (4)" 5 = "SPS 5 (5)" 6 = "SPS 6 (6)" 7 = "SPS 7 (7)" 8 = "SPS 8 (8)" 9 = "SPS 9 (9)" 10 = "SPS 10 (10)" 11 = "SPS 11 (11)" Default = **Use SP(0)**	For ducted IDUs only. Provides eleven granular adjustments in static pressure
Fan Auto Therm Off	Choices: 0 = "Disable (0)", 1 = "Enable (1)" Default value = **Disable(0)**	IDU logic controls fan speed at thermal off
IDU Auto Dry	Choices: 0 = "Disable (0)", 1 = "Enable (1)" Default value = **Disable(0**)	For cooling and dry mode only. Fan runs after cooling thermal off to dry fan coil.
Cont Therm Off(46)	Choices: 0 = "Disable (0)", 1 = "Enable (1)" Default value = **Disable(0)**	Allows continuous operation of IDU fan even if cooling thermal satisfied is achieved
Speed By Temp(51)	Choices: 0 = "Disable (0)", 1 = "Enable (1)" Default value = **Disable(0)**	Changes fan speed automatically according to the differential temperature between the conditioned space and setpoints

Fan Settings

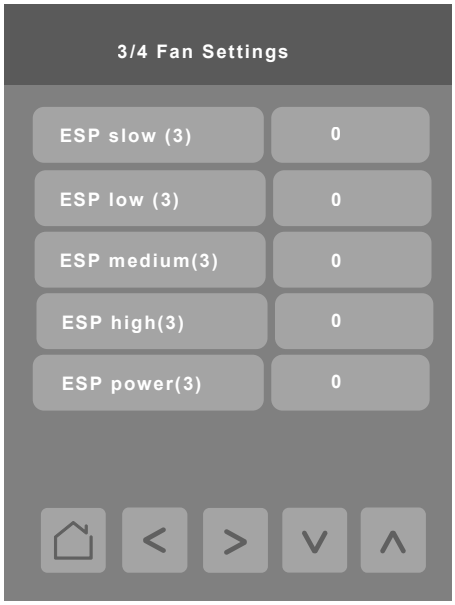
Press the Fan Settings button on the Installer screen to display the Fan Settings screen.

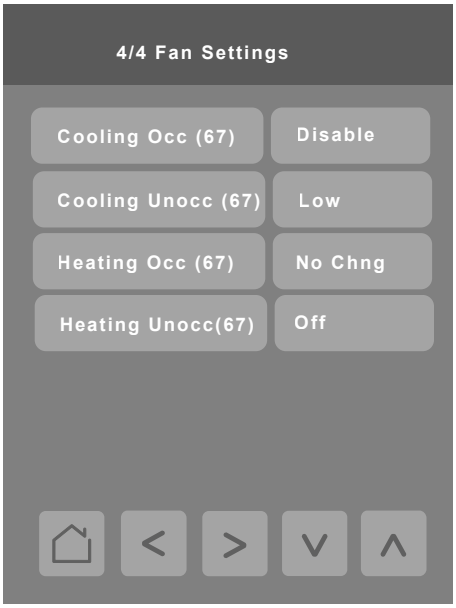
Press the right arrow button to display the second page of the Fan Settings screen.

Press the right arrow button on the second Fan Settings screen to display the third page of the Fan Settings screen.

Note:

Refer to the IDU's engineering manual for static pressure values.





Parameter	Parameter Settings	Definition
ESP slow (3)	Refer to ducted indoor unit engineering manual for specific values	For ducted indoor units only. Provides granular adjustment in static pressure. Function codes 5, 6, and 32 cannot be used when Fan Settings ESP is used. To use function codes 5, 6, and 32 for fan settings, all settings on this screen must be zero (0).
ESP low (3)		
ESP medium (3)		
ESP high (3)		
ESP power (3)		
Cooling Occ (67) **Cooling Unocc (67)** **Heating Occ (67)** **Heating Unocc (67)**		Couples fan speed with occupancy status during thermally satisfied for heating and cooling modes. A fan speed can be individually set for each of the four Mode/Occupancy settings. Available on systems that support occupancy.
Fan Speed(67)	0 = "Disabled (function 67)" 1 = "Fan Low" 2 = "Fan unchanged" 3 = "Fan Off" Default value: "Disabled"	

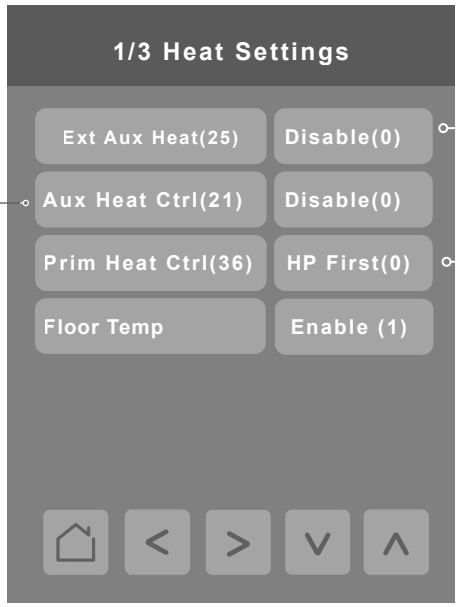
CONFIGURATION SCREENS

Installer

Heat Settings

Press the Heat Settings button on the Installer screen to display the 1/3 Heat Settings screen.

Use this function to enable or disable auxiliary heat control.



Using the Up and Down arrows select between Disable, Non-Ducted and Ducted.

Select between Primary Heat First and Primary Heat Last.

Parameter	Parameter Settings	Definition
Ext Aux Heat (25)*	Choices: 0 = 'Disable (0)", 1 = "Non-Duct (0)" , 2 = "Ducted (1)" Default value = **Disabled(0)**	Enables use of an external auxiliary heat kit
Aux Heat Cntrl(21)*	This control is used to enable related control on MORE screen that actually turns the Aux Heat on or off Choices: 0 = "Disable (0)" , 1 = "Enable (1)" Default value = **Disabled(0)**	Enables or disables the auxiliary heater
Prim Heat Cntrl(36)	Choices: HP First (0), HP Last (1) Default value = **HP First(0)**	Enables or disables the primary heater
Floor Temp	Choices: 0 = "Disable (0)" , 1 = "Enable (1)" Default value = **Enable(1)**	Enables or disables floor temperature sensing

**Note: To set Aux Heat control, the following controls must be set following this sequence: enable FC-21, then enable FC-25, wait 10 seconds then enable FC-18.*

Emergency Heat Settings*

Press the right arrow button once on the first heater screen to display the 2/3 Heat Settings screen. and the Emerg Heat (18) controls. Enabling the Emerg Heat (18) control will display all controls shown below.

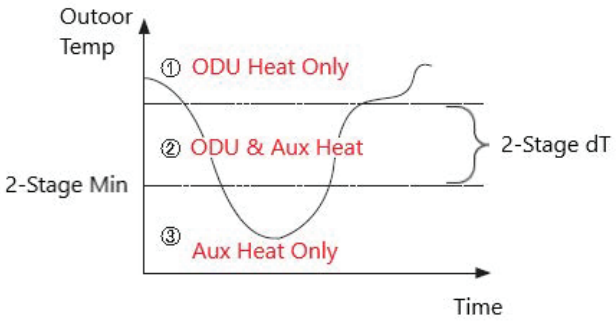
Parameter	Parameter Settings	
Emerg Heat (18)*	Use this function to enable or disable emergency heating. Choices: 0 = “Disable (0)” , 1 = “Enable (1)” Default value = **Disabled(0)**	
Heater	Choices: Column 1 or Column 2 Default value = **Disabled(0)** - Provides Aux Heat during error. Only Column 1 is available on Gen. 2 equipment. Column 2 values are available on Gen. 4 and newer equipment.	
	Column 1 1– “-10°F / -5°F (1)” 2 – “-5°F / 0°F (2)” 3 – “0°F / 5°F (3)”	**Column 2** 1– “-10°F / -5°F (1)” 2 – “-5°F / 0°F (2)” 3 – “0°F / 5°F (3)” 4 – “5°F / 10°F (4)” 5 – “10°F / 15°F (5)” 6 – “15°F / 20°F (6)” 7 – “20°F / 25°F (7)” 8 – “25°F / 30°F (8)” 9 – “30°F / 35°F (9)” 10 – “35°F / 40°F (10)” 11 – “40°F / 45°F (11)” 12 – “45°F / 50°F (12)” 13 – “50°F / 55°F (13)” 14 – “55°F / 60°F (14)” 15 – “60°F / 65°F (15)”
Fan	Off (0), On (1) Default value = **Off(0)**	

**Note: To enable FC-18, first enable FC-21 and FC-25, wait 10 seconds then enable FC-18.*

CONFIGURATION SCREENS

Installer

Heater Settings



① (2-Stage Min + 2-Stage dT < Outdoor Temp)
only heat pump used

② (2-Stage Min < Outdoor Temp < 2-Stage Min + 2-Stage dT)
both heater and heat pump used

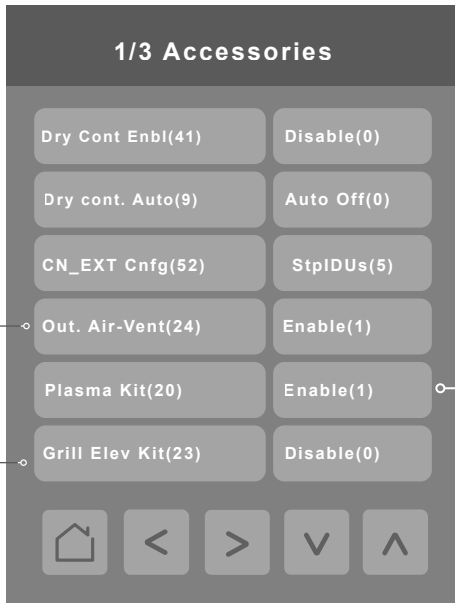
③ (Outdoor Temp < 2-Stage Min)
only heater used

Parameter	Parameter Settings	Definition
OD Temp 2-Stg (57)	0 = “Disabled(0)” 1 = “Enabled (1)” Default value = **Disabled(0)**	Outdoor temperature 2-stage heating control
2-Stage dT(57)	Range: 0 - 70 °F Default value = 0 °F	Outdoor temperature range that will provide heating from both ODU and Aux Heat sources.
2-Stage Min(57)	Range: -10 - 60 °F Default value = 33 °F	Outdoor temperature below which only Aux Heat will provide heat.

When the emergency heater setting is set (installer code 18), emergency heater control operation has a higher priority than OD Temp 2-stg (installer code 57).

Accessories

Press the Accessories button on the Installer screen to display the Accessories screen.



This option enables the related control on the MORE screen that turns the Vent kit on or off.

This option enables the related control on the Filter Functions screen that controls Raise/Lower Grill functions.

This option enables the related control on the MORE screen that turns the Plasma Purifier on or off.

Parameter	Parameter Settings	Definition
Dry Cont Enbl(41)	Choices: 0 = “Default (0)” 1 = “Not Used (1)” 2 = “Enabled (2)” 3 = “Use CN_EXT (3)” Default value = **Default(0)**	Enables use of a dry contact through the CN_CC connector of the IDU
Dry cont. Auto(9)	Choices: 0 = “Auto Off (0)”, 1 = “Auto On (1)” Default value = **Disabled(0)**	Enables auto run feature when used in conjunction with a simple dry contact
CN_EXT Cnfg (52)	Choices: 0 = “Disable (0)” 1 = “On/Off (1)” 2 = “DryCntct (2)” 3 = “Stp1IDU (3)” 4 = Reserved 5 = “StpIDUs (5)” Default value = **Disabled(0)**	Configures how the onboard dry contact (CN_EXT) will be used. Visit www.lghvac.com/resources/ and filter under White Papers and Controls for more information on using the IDU onboard simple dry contact.
Out. Air – Vent (24)	Choices: 0 = “Disable (0)”, 1 = “Enable (1)” Default value = **Disabled(0)**	Used to inform the IDU that a ventilation kit is installed. Enabling this control enables a related control on the More screen to control ventilation.
Plasma Kit (20)	Choices: 0 = “Disable (0)”, 1 = “Enable (1)” Default value = **Disabled(0)**	Enables or disables the plasma purification function. A plasma kit is required.
Grill Elev. Kit (23)	Choices: 0 = “Disable (0)”, 1 = “Enable (1)” Default value = **Disabled(0)**	For cassette IDUs only when kit is installed. Enables controls that allow lowering of the grill to provide easy access to the filter.

CONFIGURATION SCREENS

Installer

Accessories – continued

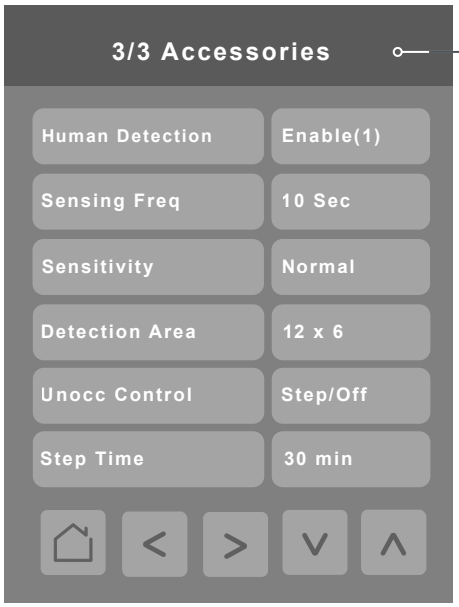
Press the right arrow button on the 1/3 Accessories screen to display the 2/3 Accessories screen.

Global setting which applies to both the onboard PIR sensor as well as any installed Zigbee motion sensors.

Parameter	Parameter Settings	Definition
Refrig Leak Sns(29)	Choices: 0 = “Disable (0)” , 1 = “Enable (1)” Default value = **Disabled(0)**	Enables the refrigerant leak sensor
Cntrlr Occ Sensor	Choices: 0 = “Disable”, 1 = “Enable” Default value = **Disabled(0)**	Enables or disables the occupancy sensor, either onboard PIR sensor or Zigbee sensor(s)
Cntrlr Min Occ On	Choices: 0 = “10 min (1)” 1 = “30 min (2)” 2 = “60 min (3)” 3 = “2 hrs (4)” 4 = “4 hrs (5)” 5 = “8 hrs (6)” 6 = “12 hrs (7)” 7 = “24 hrs (8)” Default value = **10 min (1)**	Time the controller will wait before the occupancy status changes to unoccupied when no motion is detected by the sensor
Humidity sensor	Choices: 0 = “Internal” 1-20 = “ZBx”, where x represents a paired ZigBee humidity sensor Default value = **Internal**	Enables or disables the occupancy sensor, either onboard PIR sensor or Zigbee sensor(s)
Humidity calib.	Range: -15.0 - 15.0 %RH Default value = 0.0 %RH	
CO2 source	Choices: 0 = “None” 1-20 = “ZBx”, where x represents a paired ZigBee CO2 sensor Default value: **None**	Enables the use of room CO2 data when CO2 sensor is installed

Accessories – continued

Press the right arrow button on the 2/3 Accessories screen to display the 3/3 Accessories screen.



Features on the 3/3 Accessories screen are available when Human Detection option is installed on Dual Vane 4-Way Cassette.

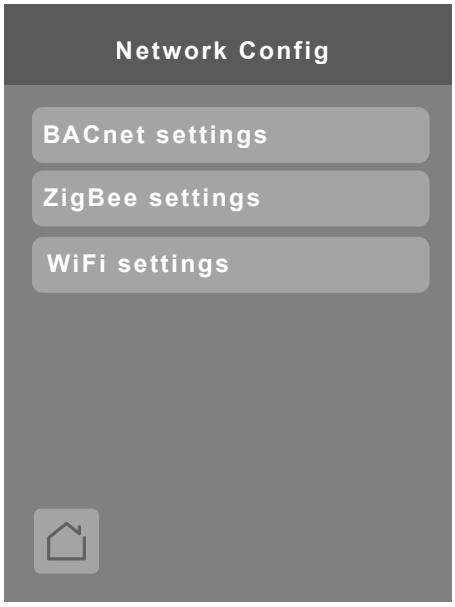
Parameter	Parameter Settings	Definition
Human Detection	Choices: 0 = “Disable (0)” 1 = “Enable (1)” 2= “90° Instl (2)” Default value = **Disable (0)**	Enables use of Human Detection features when this option is installed on a Dual Vane 4-Way Cassette
Sensing Freq	Choices: 0 = “30 sec (0)” 1 = “5 sec (1)” 2 = “1 min (2)” 3 = 3 min (3)” Default value = **30 sec (0)**	Sets the interval at which the Human Detection sensor will check for occupancy
Sensitivity	Choices: 0 = “Normal (0)” 1 = “Low (1)” 2= “High (2)” Default value = **Disable (0)**	Configures the sensitivity of the Human Detection sensor
Detection Area	Choices: 0 = “12 x 6” 1 = “6 x 6” 2= “Flr Det” Default value = **12 x 6**	Used to set the detection area for Human Detection option
Unocc Control	Choices: 0 = “Disable (0)” 1 = “Unocc/Off” 2= “Step/Off” Default value = **Disable (0)**	Configures operation of IDU when Human Detection sensor detects unoccupied status. Unocc/Off turns off IDU when unoccupied with IDU returning to On state when occupied. Step/Off gradually changes setpoint before turning IDU off.
Step Time	Choices: 0 = “30 min”, 1 = “5 min”, 2 = “10 min”, 3 = “15 min”, 4 = “60 min”, 5 = “90 min”, Default value = **30 min**	Sets the incremental setpoint change (or “step”) time for Unocc Control when set to Step/Off

CONFIGURATION SCREENS

Network Configuration

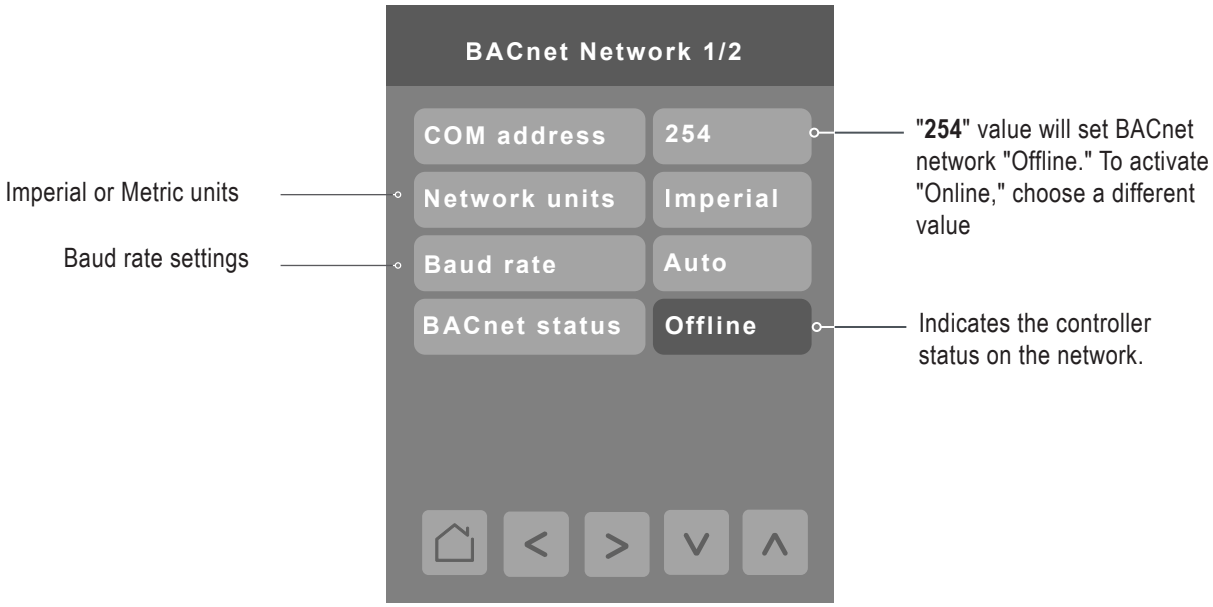
Network Configuration

Access settings for BACnet, Zigbee, and Wi-Fi.



BACnet Settings

Press the BACnet* settings button on the Network Config screen to display the BACnet Network screen. Press the right arrow to display the BACnet Instance screen.



**BACnet is a registered trademark of ASHRAE*

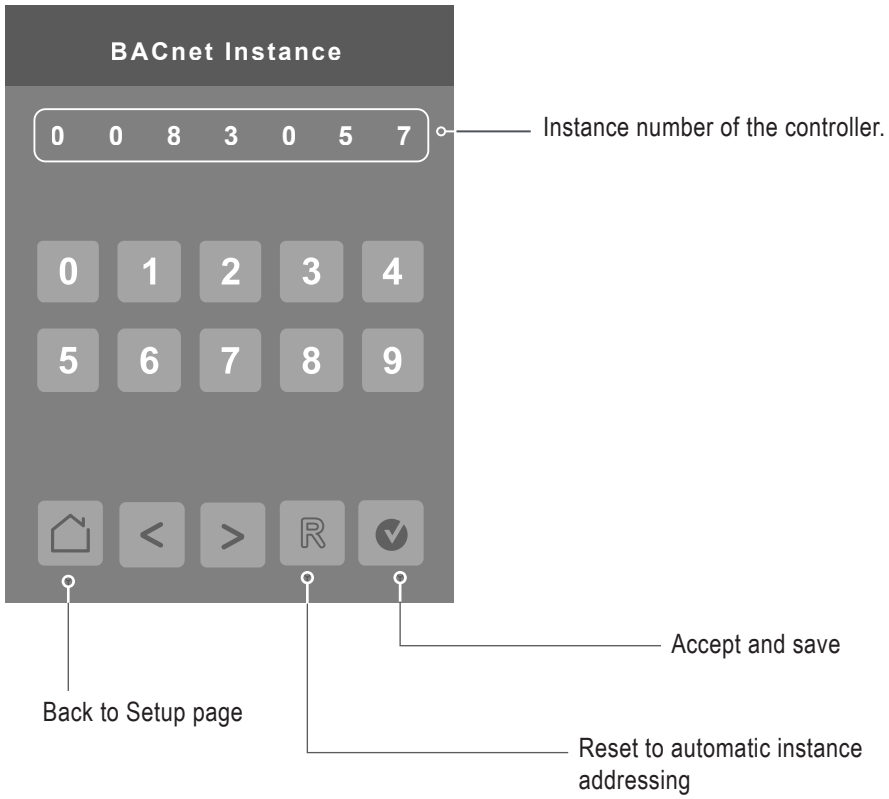
BACnet Settings – continued

Parameter	Parameter Settings	Definition
COM address	**Communications Address** Range is: 0 to 254 Default value = **254**	Terminal Equipment Controller Networking address. For BACnet MS/TP models, the valid range is from 0 to 253. Default value of **254** disables BACnet communication for the Controller.
Network units	**Measurement Units** Choices: Imperial, SI Default value = **SI**	**Imperial:** Network units shown as “imperial” units. **SI:** Network units shown as “international metric” units.
Baud rate	**Baud Rate** Choices: (115200) (76800) (57600) (38400) (19200) (9600) Auto Default value = **Auto**	Auto: Will automatically detect the BACnet MS/TP baud rate. Leave the value at Auto unless instructed otherwise.

The default BACnet instance number is generated by the model number and COM address of the controller. For example, the instance number of a MultiSITE CRC2 Series 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.

Press Reset to automatic instance addressing to reset to automatic instance addressing.



CONFIGURATION SCREENS

Network Configuration

Zigbee Configuration

Press the Zigbee* settings button on the Network Config screen to display the Zigbee Configuration screen. Zigbee settings button is only available when Zigbee is present onboard or an option card has been installed in the controller.

Enable Permit join when ready to begin pairing sensors and disable immediately after pairing sensors. This control is duplicated in the Sensor section for sensor pairing convenience.

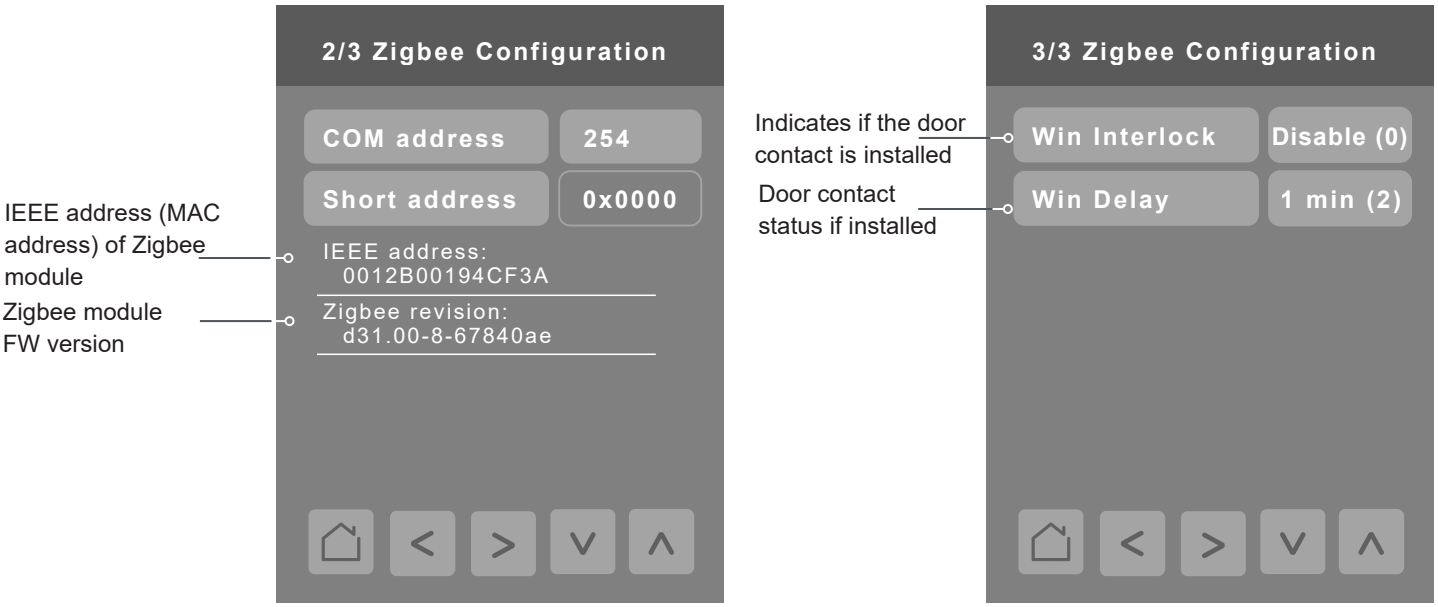
After setting Node type, PAN ID and Channel values, wait for Network status to change to Online before attempting to pair sensors in Zigbee Ecosystem section

Parameter	Parameter Settings	Definition
Node type	Choices: Coord; Router	Set Node type to Coord if controller will be responsible for controlling Zigbee sensor network.
Pan ID	Personal Area Network Identification Range is: 1 to 1000 Default value = **0**	This parameter (PAN ID) links specific Controllers to specific Zigbee coordinators. For every Controller reporting to a coordinator, make sure to set the SAME channel value both on the coordinator and the Controllers. The default value of 0 is NOT a valid PAN ID. The valid range of available PAN ID is from 1 to 1000.
Channel	Channel selection **Using channels 15 and 25 is recommended.** The valid range of available channels is from 11 to 25. Range is: 10 to 25 Default value = **10**	This parameter (Channel) is used to link specific Controllers to specific Zigbee coordinators. For every Controller reporting to a coordinator, be sure you set the SAME channel value both on the coordinator and the Controller(s). The default value of 10 is NOT a valid channel.
Security	Zigbee network security level for support of Green Power / ZigBee 3.0 Choices: Low, Normal Default value = **Low**	If new application and sensors have a “G” in the model number, sensors are Green Power compliant and Normal setting can be used. If sensors are already commissioned and it is not known if they are Green Power compliant, leave at default setting.
Network status	Read only	The following read only messages show in this field: • (Not Det): Zigbee Pro module not detected • (Pwr On): Zigbee Pro module detected but not configured • (No NWK): Zigbee Pro configured but no network joined • (Joined): Zigbee Pro network joined • (Online): Communicating

**Zigbee is a registered trademark of the Zigbee Alliance.*

Zigbee Configuration – continued

Press the right arrow on the Zigbee Configuration screen to display the second page of the Zigbee Configuration screen. The blue fields indicate the controller is paired with a sensor. Press the right arrow on the second screen to display the third screen.



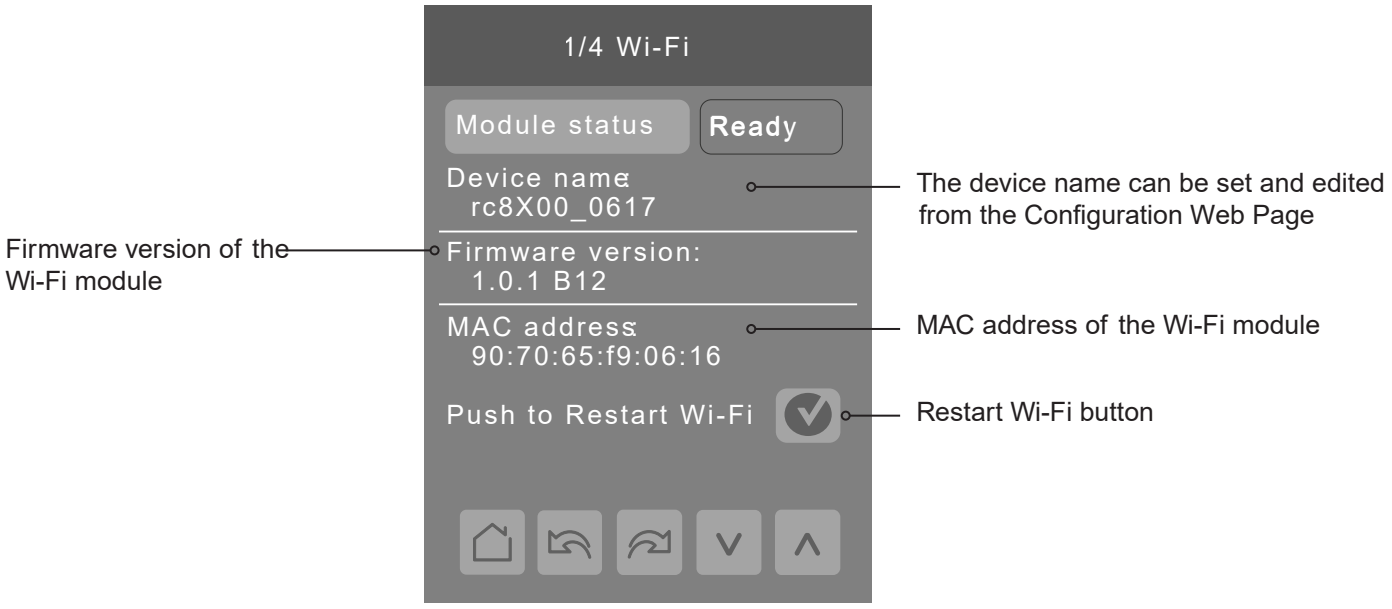
Parameter	Parameter Settings	Definition
COM address	Choices: Off, On Default value = **On**	Changing this value to "Off" will lockout any new Zigbee devices from joining the network through this controller.
Short address	**Default = 0x0000**	The unique ZigBee short address is generated once a wireless device joins a ZigBee network.
Win Interlock	Choices: Disable (0), IDU Off/A (1), IDU Off/M (2) Default = **Disable (0)**	Interlocks operation of IDU with status of window as reported by the Zigbee Dr/Win switch. When “IDU Off/A” mode is selected, IDU will shut off when window is open for a delay period longer than set by the Win Delay control. If Window is closed, IDU will turn back on (A) automatically. When “IDU Off/M” mode is used, (M)anual intervention is required at remote controller once the window is closed to turn IDU back on. NOTE: To use this functionality with a door application, simply call the door a window when the Dr/Win switch is installed through the Zigbee pairing screen.
Win Delay	Choices: 0 min (0), 0.5 min (1), 1 min (2), 2 min (3), 5 min (4) Default value = **0 min (0)**	Sets the delay period for the Win Interlock feature that shuts the IDU off after the delay period expires.

CONFIGURATION SCREENS

Network Configuration

Wi-Fi Configuration

Press the Wi-Fi Config button on the Network Configuration screen to display the Wi-Fi settings screen. Only one BACnet protocol can be used at a time, either the wired protocol BACnet MS/TP or the Wi-Fi BACnet IP. When the Wi-Fi card is installed, BACnet IP (wireless) will be used. The BACnet controls available under the Network Config section will be a reduced set of controls compared to when using BACnet MS/TP.



Parameter	Parameter Settings	Definition
Module Status Read Only	Status value: Offline, Booting, Initializing, Ready, Fail	The status is always displayed as Ready when the Wi-Fi module is installed.

Wi-Fi Configuration – continued

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

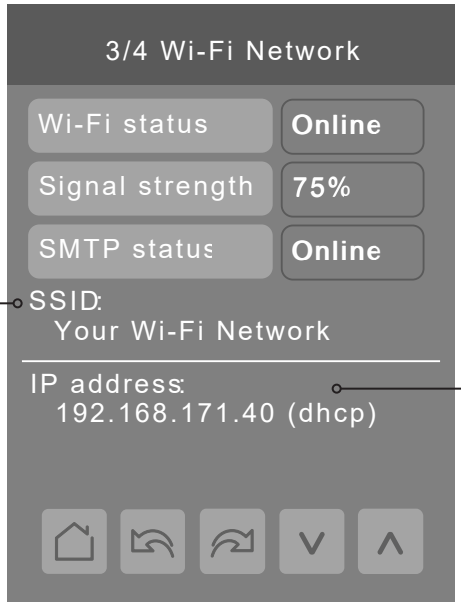
When connected to the Access Point, browse to this IP address to access the Configuration Web Page

Parameter	Parameter Settings	Definition
Access Point	0 = Disabled 1 = Enabled Default value: Disabled	Enables Wi-Fi AP mode on the remote controller so that device can be configured using a PC, mobile phone or other device.
SSID (controller provided)	N/A	SSID of the Access Point (AP) created by the Wi-Fi card for connecting to it from another device to configure customer Wi-Fi network
Password (controller provided)	N/A	Password of the Access Point (AP) created by the Wi-Fi card for connecting to it from another device to configure customer Wi-Fi network
IP address (controller provided)	N/A	IP Address of the Access Point (AP) created by the Wi-Fi card for connecting to it from another device to configure customer Wi-Fi network

CONFIGURATION SCREENS

Network Configuration

Wi-Fi Configuration – continued



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	Parameter Settings	Definition
Wi□Fi status	N/A	Reporting status of the Wi-Fi connection between remote controller and AP
Signal strength	N/A	Reporting status of the Wi-Fi signal quality between remote controller and AP
SMTP status	N/A	Reporting status of the SMTP server connection used for sending email notifications
SSID (customer Wi-fi network)	Defined by user's Wi-Fi network	SSID of the user's network that will be used for Wi-Fi communications
IP address (customer Wi-Fi network)		IP address of the device on the user's network that the remote controller will connect to.

Wi-Fi Configuration – continued

Parameter	Parameter Settings	Definition
Factory reset?	Default: No	Erase All Accepting Yes for both and then tapping 'Push to accept' will restore the Wi-Fi module to the factory settings, erase all configuration data and revert the Wi-Fi module firmware to the factory firmware version. NOTE: If you lose or forget your password for the Configuration Web Page, you must do a factory reset of the Wi-Fi module.
Are you sure?	Default: No	

CONFIGURATION SCREENS

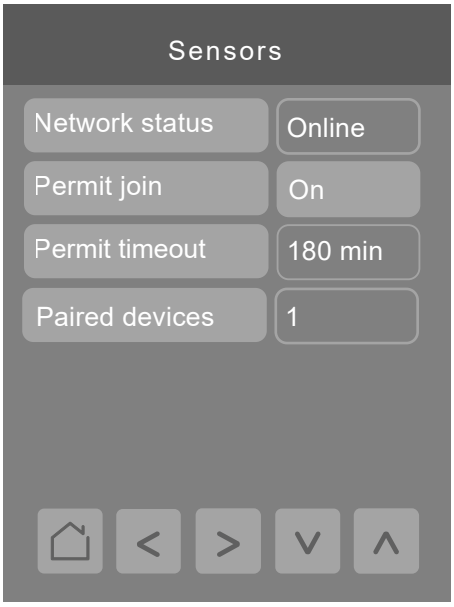
Zigbee Ecosystem

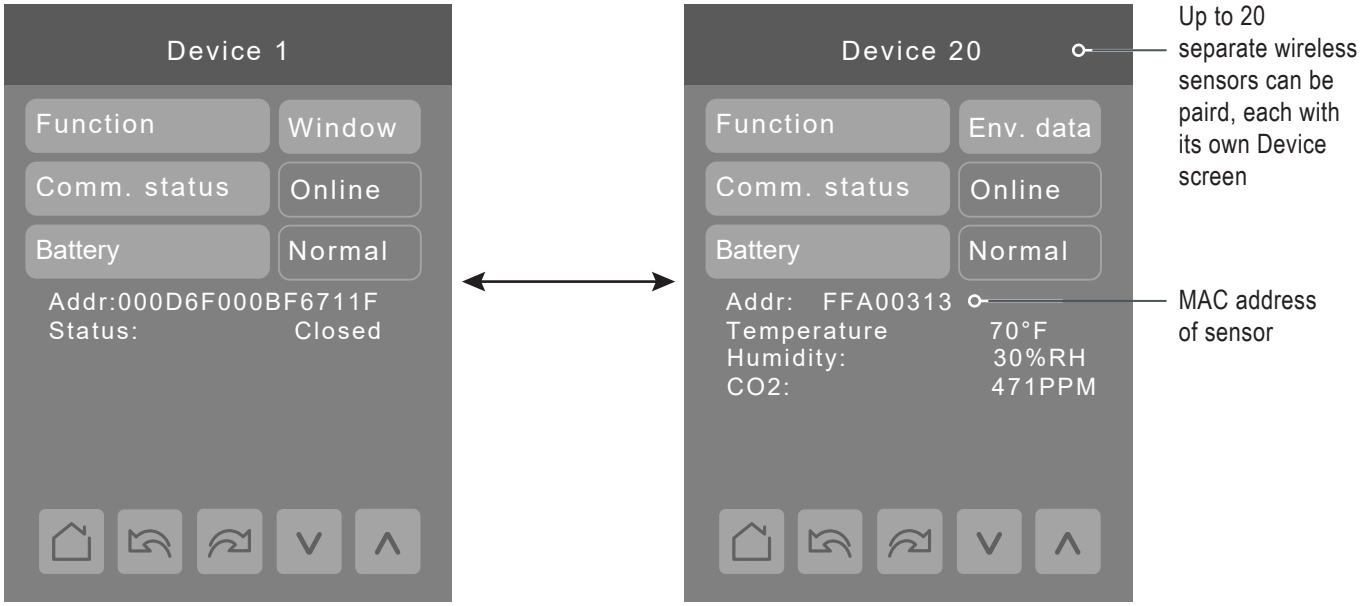
Zigbee Ecosystem

Press the Zigbee Ecosystem button on the 1/2 Configuration screen to display the Zigbee Ecosystem screens. The Zigbee Ecosystem section is comprised of four individual screens; Sensors, Device Groups, Alarms Configuration and Alarms, each expressing information specific to the paired Zigbee sensors. Each screen is described in further detail below

Sensors

Press the Sensors button on the Zigbee Ecosystem screen to be taken to the Sensors screen. Before pairing sensors, ensure Network status shows “Online” and Permit join is set to “On.” When Zigbee wireless sensors is successfully paired with the controller, it will appear as a new Device screen, up to a maximum of 20 Devices. Press the left and right arrow keys to move between Device screens. After pairing each sensor, set the appropriate type of sensor using the Function control and the up and down arrow keys. A sensor can be removed from the network by choosing the Remove option in the Function control.



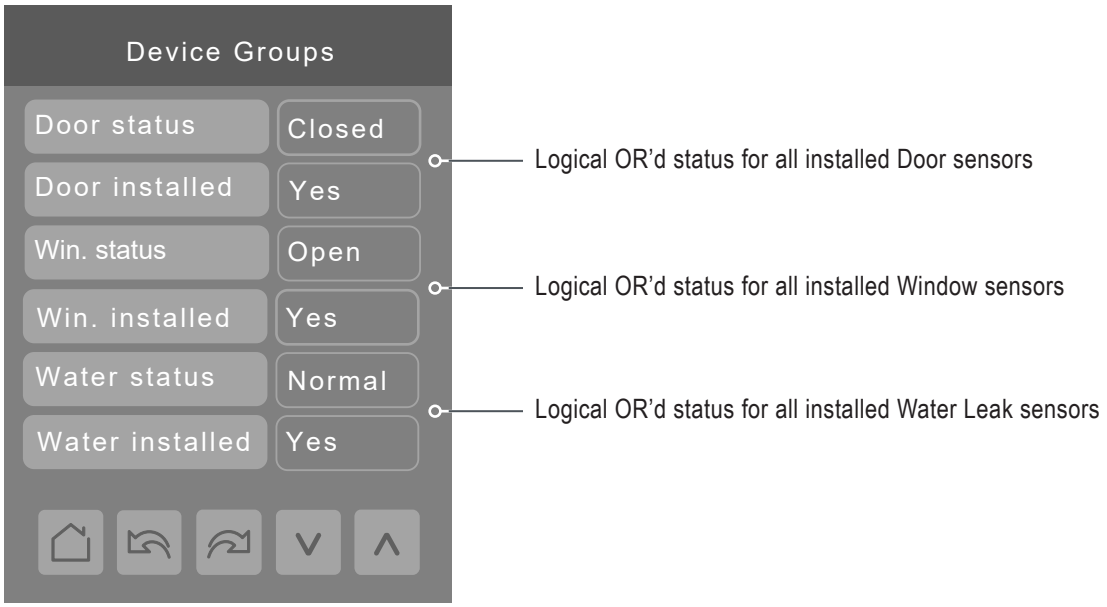


CONFIGURATION SCREENS

Zigbee Ecosystem

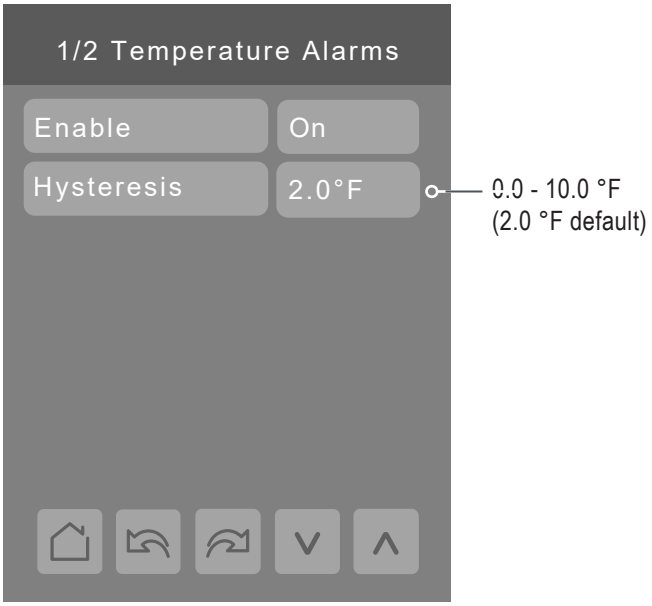
Device Groups

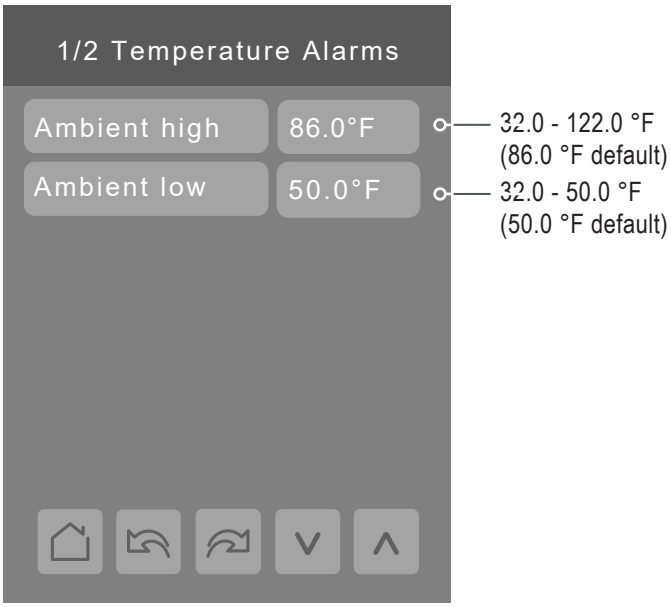
Press the Device Groups button on the Zigbee Ecosystem screen to display the Device Groups monitoring screen. All values on this screen are for monitoring purposes only and can not be changed.



Alarms Configuration

Press the Alarms Configuration button on the Zigbee Ecosystem screen to configure a high and low temperature alarm for an installed Zigbee temperature sensor. Alarming is reported at the bottom of the Home screen and represents a logical OR'd function for all currently paired Zigbee temperature sensors. When the Ambient low temperature alarm threshold is exceeded, "Low temperature" will alarm on the Home screen. When the Ambient high temperature threshold is exceeded, "High temperature" alarms on the Home screen.

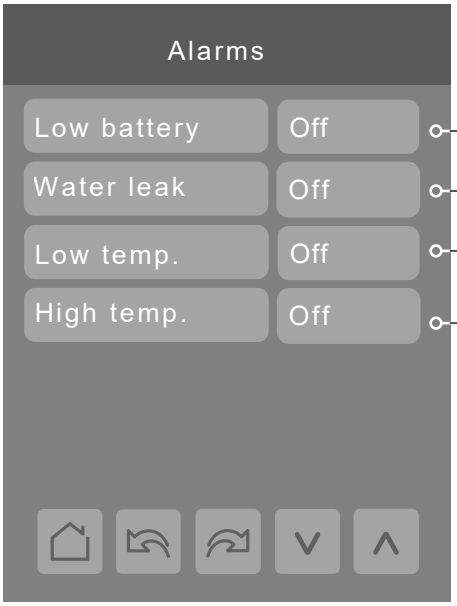




Alarms

Press the Alarms button on the Zigbee Ecosysem screen to display the Alarms monitoring screen. All values on this screen are for monitoring purposes only and can not be changed.

Low temp. and High temp. alarms are specific to Zigbee sensors only (i.e., onboard CRC or IDU return air sensor will not trigger these alarms.) Alarms will trigger in this section regardless of how room temperature sensing is configured as long as a paired ZigBee temperature sensor meets the conditions set in the Alarms Configuration section.



- Logical OR'd status for all Zigbee sensor batteries
- Logical OR'd status for all Zigbee water leak sensors
- Logical OR'd status of all Zigbee temperature sensors as measured against value set for Ambient low alarm setting in the Alarms Configuration section.
- Logical OR'd status of all Zigbee temperature sensors as measured against value set for Ambient high alarm setting in the Alarms Configuration section.

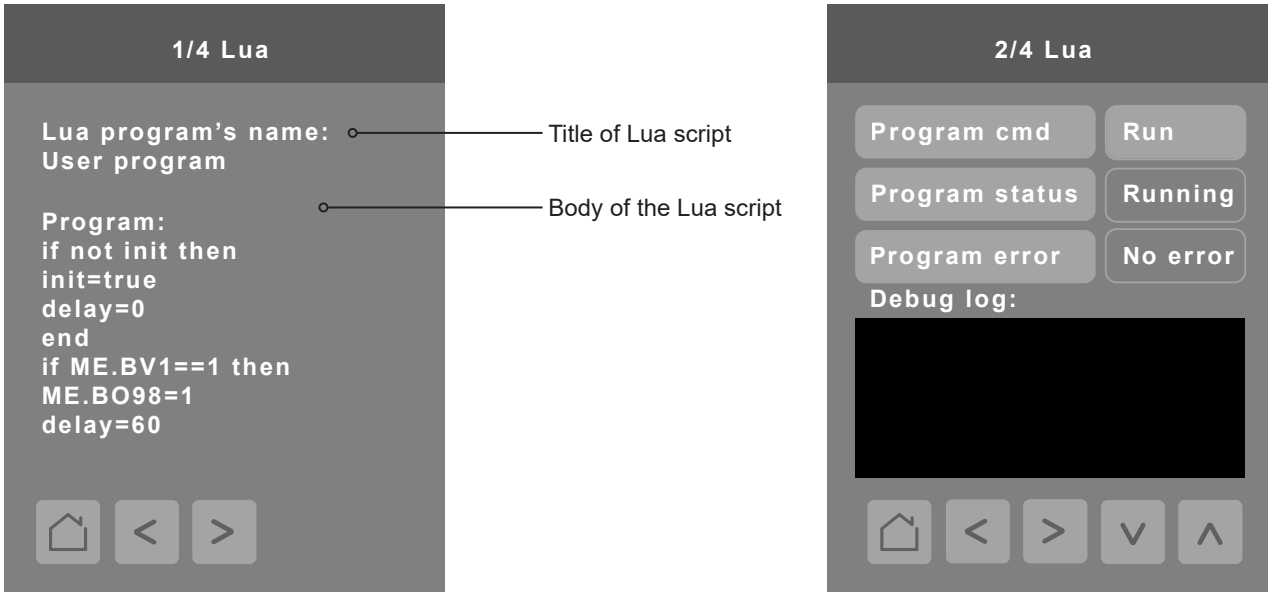
CONFIGURATION SCREENS

Lua

Lua Settings

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.

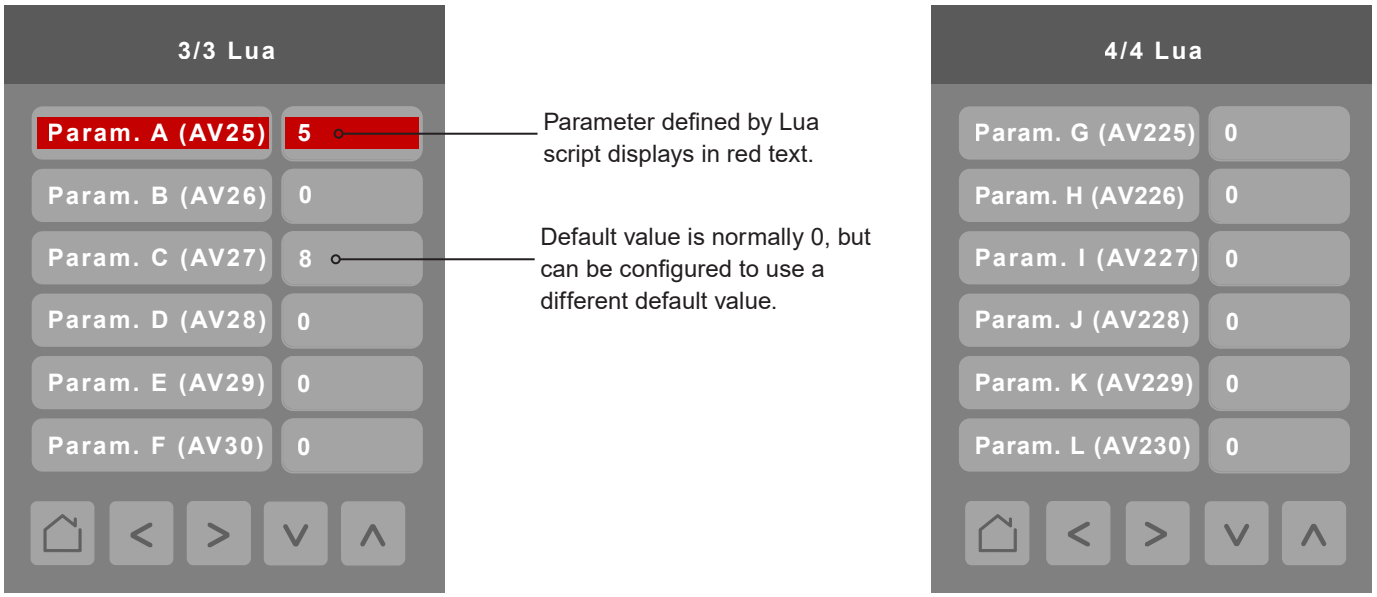
The Lua control will not show unless a Lua script has first been loaded on to the controller.



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

Lua Generic Parameters

The Lua settings include six 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	Parameter Settings	Definition
Parameter A	**Default value: 0**	AV25 Default value can be changed by user. The value(s) of this parameter depends on what is assigned to it using the Lua script function.
Parameter B	**Default value: 0**	AV26 (See Parameter A definition above)
Parameter C	**Default value: 0**	AV27 (See Parameter A definition above)
Parameter D	**Default value: 0**	AV28 (See Parameter A definition above)
Parameter E	**Default value: 0**	AV29 (See Parameter A definition above)
Parameter F	**Default value: 0**	AV30 (See Parameter A definition above)
Parameter G	**Default value: 0**	AV225 (See Parameter A definition above)
Parameter H	**Default value: 0**	AV226 (See Parameter A definition above)
Parameter I	**Default value: 0**	AV227 (See Parameter A definition above)
Parameter J	**Default value: 0**	AV228 (See Parameter A definition above)
Parameter K	**Default value: 0**	AV229 (See Parameter A definition above)
Parameter L	**Default value: 0**	AV230 (See Parameter A definition above)

CONFIGURATION SCREENS

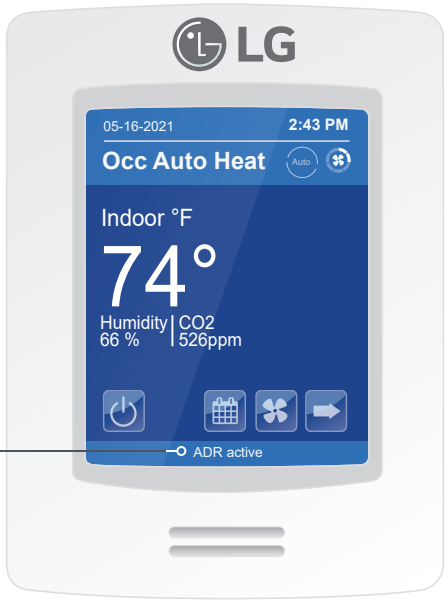
ADR

ADR Settings

Press the ADR button from the 1/2 Configuration screen to display the ADR screen. The ADR feature on the CRC2 is designed to be triggered by a signal from a BACnet device capable of receiving a signal from the service provider which writes to the Utility Signal BACnet point. When this point is set to TRUE (1), the CRC2 will apply an offset as defined by the ADR Offset control value and apply it to the current setpoint value(s). An ADR override feature is available on the 2/2 More screen in the event that ADR must be overriden.

NOTE: Overriding an active ADR command from the utility may result in higher billed utility rates from the service provider.

When ADR is active the Mode button will be hidden and “ADR active” appears on bottom of home screen

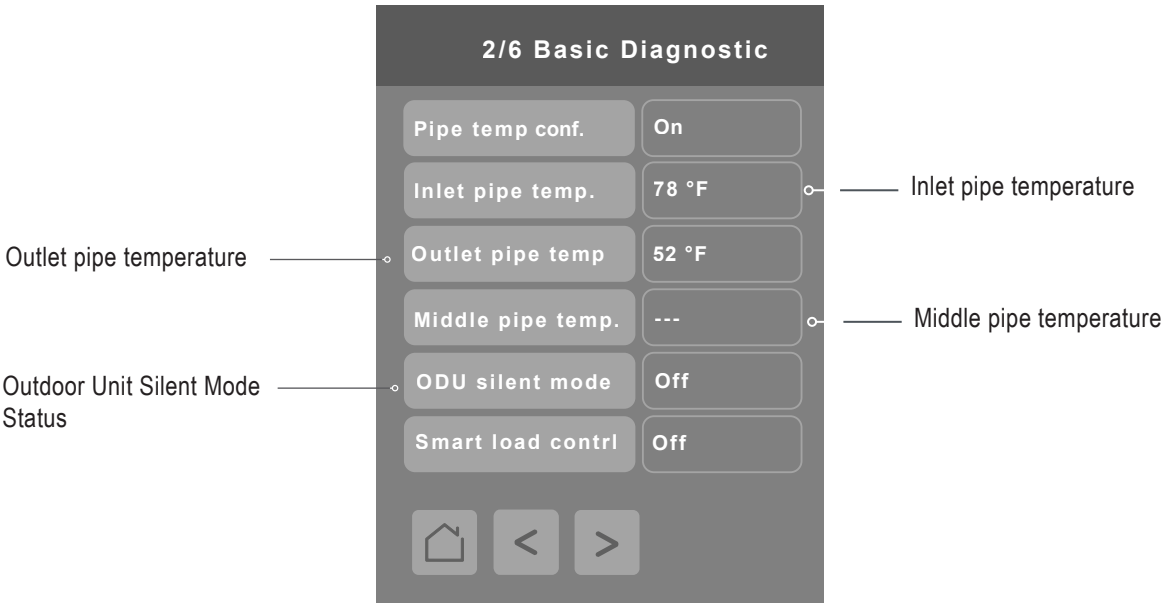


Parameter	Parameter Settings	Definition
ADR enable	Choices: Off, On Default value: **On**	Enables ADR feature so that when BACnet point ADR Enable is active, the CRC2 will apply the ADR offset value to the current setpoint(s)
ADR active	Values: False, True	In order for ADR active to be “True”, all of the following conditions must be met: ● ADR enable must be “On” ● Utility signal must be “On” and ● ADR override (More screen) must be “Disabled”
Utility signal	Values: Off, On	Current status of BACnet point named “ADR Enable”
ADR offset	Range: 4°F - 10°F Default value: **4°F**	Offset value added to current set point(s) to widen operating set points when Utility signal is enabled via the BACnet point named “ADR Enable”. When Utility signal transitions from On to Off, previous set point(s) value(s) will be restored.
ADR override	Values: Disable, Enable Default value: **Disable**	Current status of ADR override control on More screen. Used to force an override of an active ADR request

Basic Diagnostic

Press the Basic Diagnostic Button on the Configuration screen to display the Basic Diagnostic screen.

Press the right arrow on the Basic Diagnostic screen to display the next Basic Diagnostic screen.

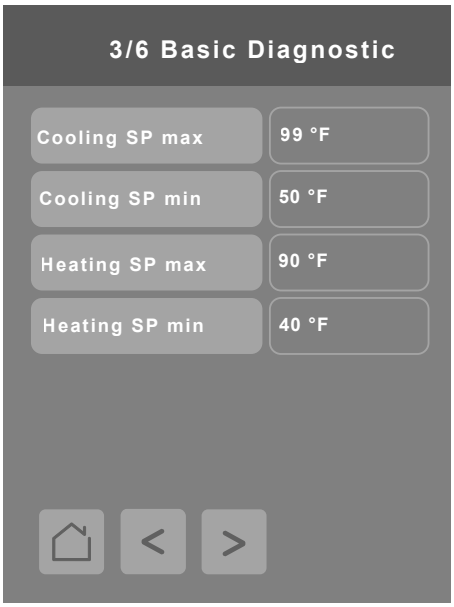


CONFIGURATION SCREENS

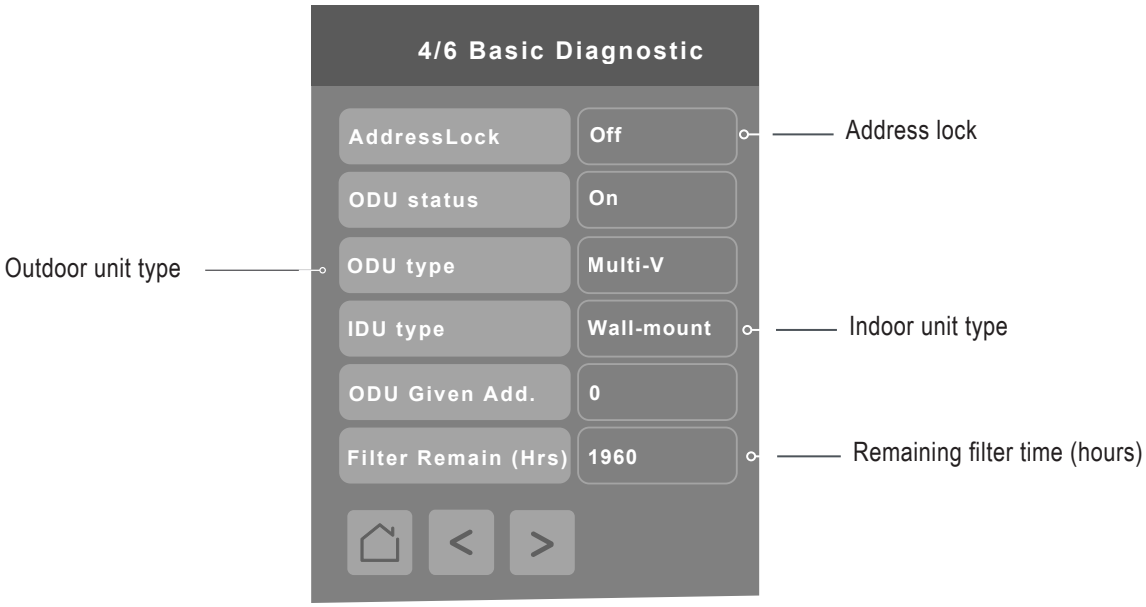
Basic Diagnostic

Basic Diagnostic – continued

Press the right arrow on the Basic Diagnostic screen to display the next Basic Diagnostic screen.



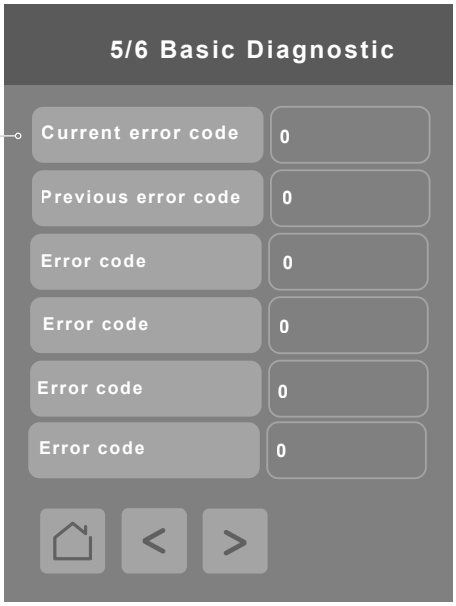
Press the right arrow on the Basic Diagnostic screen to display the next Basic Diagnostic screen.



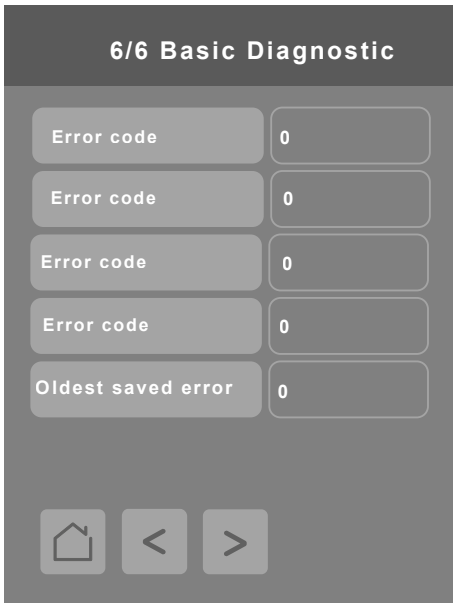
Basic Diagnostic – continued

Press the right arrow on the Basic Diagnostic screen to display the next Basic Diagnostic screen.

Screens 5/6 Basic Diagnostic and 6/6 Basic Diagnostic display a historical list of the 10 most recent error codes generated by the Indoor Unit. The most recent error code appears at the top of the list.



Press the right arrow on the Basic Diagnostic screen to display the Basic Diagnostic screen.



CONFIGURATION SCREENS

Password Setup

Press the Password Setup button on the Configuration screen to display the Password Setup screen.

Parameter	Parameter Settings	Definition
Config password	Range is: 0 to 9999. Default value = **0**	This parameter sets a protective access password to prevent unauthorized access to the configuration menu parameters. The default value of “0” will not prompt the user for a password or lock the access to the configuration menu. User must include any leading “0” if anything less than a 4-digit code is selected for a password.
User password	Range is: 0 to 9999. Default value = **0**	This parameter sets a protective access password to prevent user unauthorized access to main screen adjustments. The default value of “0” will not prompt for a password.

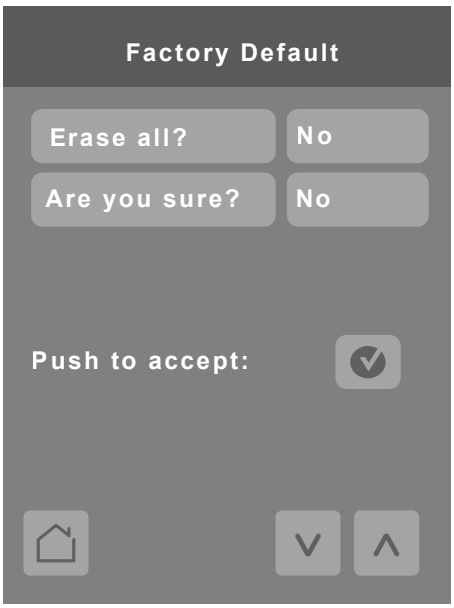
Factory Default

Answering Yes to both parameters and tapping 'push to accept' erases all values and sets the controller to factory default values.

Note:

Once in the Factory Default screen, if user proceeds with this step, all schedules and current controller settings, along with time and date will be cleared. There is no way to recover settings once a Factory Default has been performed.

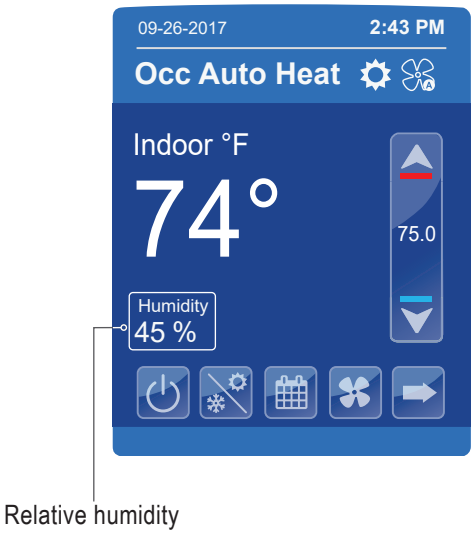
Please wait at least five (5) minutes after performing a Factory Default reset for synchronization to complete between the IDU and the remote controller.



CONFIGURATION SCREENS

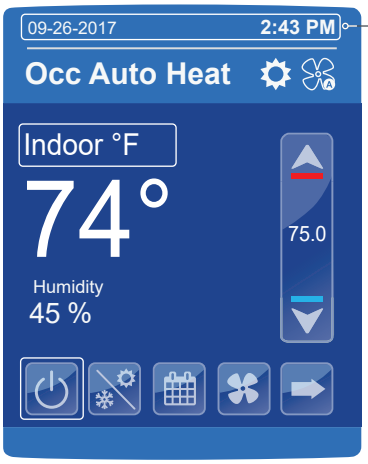
Relative Humidity Display

Relative humidity is available to be displayed on the MultiSITE CRC2, CRC2+ and CRC+Z, all of which natively support humidity with an onboard sensor. Apart from the visual indication of relative humidity, this data is also available as a monitoring point via MSTP BACnet to be used by the user as desired.



Time and Date

Time and date are displayed at the top of the home screen.



Time and Date will display when updated in display settings. Time and Date must be reset if Controller is set to factory default values.

PIR (Motion Sensor)

The MultiSITE CRC2+ and CRC2+Z versions of the controller come with an onboard PIR style motion sensor. Accessories are also available to enable the CRC2 base model to sense motion. If the sensor is enabled (installer configuration under Accessories), status from the PIR sensor will be used to control the operation of the IDU as follows:

If the IDU status is currently Occupied and the onboard PIR goes Unoccupied, the IDU will operate according to the Setback values of the controller and will change its status to Unoccupied.

If the IDU status is currently Unoccupied and the onboard PIR goes Occupied, the IDU will operate according to the settings in use during the last Occupied status and will change its status to Occupied.

If the IDU is currently in Setback or Override modes, information from the PIR sensor will be ignored.

BACNET POINTS

Controller BACnet Points

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
DisplayLowBacklight	AV	3	Write	Range				Display Brightness Setting For Low Backlight Conditions
RoomTempCalibration	AV	7	Write	Range				Room Temperature Sensor Calibration Offset
Calibrate Humidity Sensor	AV	8	Write	Range				Humidity Sensor Calibration Offset
BACnetComAddr	AV	10	Write	Range				BACnet Communications Address
BACnetStackPollRate	AV	16	Write	Range				BACnet Stack Poll Rate
LuaParameterA (AV25)	AV	25	Write	Range				Lua ParamaterA
LuaParameterB (AV26)	AV	26	Write	Range				Lua ParamaterB
LuaParameterC (AV27)	AV	27	Write	Range				Lua ParameterC
LuaParameterD (AV28)	AV	28	Write	Range				Lua ParameterD
LuaParameterE (AV29)	AV	29	Write	Range				Lua ParameterE
LuaParameterF (AV30)	AV	30	Write	Range				Lua ParameterF
HeatingSP	AV	39	Write	Range				Heating SP Setting (Dual SP)
CoolingSP	AV	40	Write	Range				Cooling SP Setting (Dual SP)
ConfigPassword	AV	56	Write	Range				Configuration Password (Password protects Installer Settings)
UserPassword	AV	57	Write	Range				User Password (Password protects all settings)
DualSPdeadband	AV	63	Write	Range				Minimum Deadband Setting (Dual SP)
RoomTemp	AV	100	Write	Range				Room Temperature
RoomHumidity	AV	103	Write	Range				Room Humidity
ADR Offset	AV	211	Write	Range				ADR Setpoint Offset Value
LuaParameterG (AV225)	AV	225	Write	Range				Lua ParameterG
LuaParameterH (AV226)	AV	226	Write	Range				Lua ParameterH
LuaParameterI (AV227)	AV	227	Write	Range				Lua ParameterI
LuaParameterJ (AV228)	AV	228	Write	Range				Lua ParameterJ
LuaParameterK (AV229)	AV	229	Write	Range				Lua ParameterK
LuaParameterL (AV230)	AV	230	Write	Range				Lua ParameterL
SingleSP	AV	507	Write	Range				Setpoint Setting (Single SP)
SingleSetpointMax	AV	508	Write	Range				Single Setpoint Maximum Setting
SingleSetpointMin	AV	509	Write	Range				Single Setpoint Minimum Setting

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
CoolingSPMax	AV	510	Write	Range				Dual Setpoint Cooling Maximum Setting
CoolingSPMin	AV	511	Write	Range				Dual Setpoint Cooling Minimum Setting
HeatingSPMax	AV	512	Write	Range				Dual Setpoint Heating Maximum Setting
HeatingSPMin	AV	513	Write	Range				Dual Setpoint Heating Minimum Setting
OverrideCoolingSP	AV	601	Write	Range				Cooling Override Setpoint Setting
OverrideHeatingSP	AV	602	Write	Range				Heating Override Setpoint Setting
SetbackCoolingSP	AV	605	Write	Range				Cooling Setback Setpoint Setting
SetbackHeatingSP	AV	606	Write	Range				Heating Setback Setpoint Setting
SingleSPdeadband	AV	644	Write	Range				Single Setpoint Deadband
ForceHighBacklight	BV	6	Write	2	1	Off	Off	Force Backlight
					2	On		
DisplayLongScreenMsg	BV	7	Write	2	1	Off	Off	Show Text Of MsgLongScreenMsgTxt On Main Screen
					2	On		
PIR Local Motion	BV	32	Write	2	1	No motion	No motion	Logical OR'd Instantaneous Status of All Motion Sensors
					2	Motion		
Utility Signal	BV	48	Write	2	1	Off	Off	ADR Request Signal From Utility
					2	On		
FilterAlarmRelease	BV	510	Write	2	1	Off	Off	Filter Alarm Reset
					2	On		
MsgSetbackActive	BV	542	Write	2	1	Off	Off	Setback Status
					2	On		
TestModeOccupancy	BV	557	Write	2	1	Off	Off	Reserved/Do Not Use
					2	On		
MsgShortScreenMsgTxt	CSV	1	Write	0				Location Message (Displays message at bottom of screen)
MsgLongScreenMsgTxt	CSV	2	Write	0				Description Message (Displays message on main screen)

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_NetworkStatus_M	MSI	2	Write	5	1 2 3 4 5	Not det. Pwr on No NWK Joined Online	Not det.	Zigbee Network Status
ZB_Zone1SensorType_M	MSI	180	Write	8	1 2 3 4 5 6 7 8	None Unknown Motion Contact Water Temp. Temp./RH CO2	None	Zigbee Zone1 Sensor Type
ZB_Zone2SensorType_M	MSI	181	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone2 Sensor Type
ZB_Zone3SensorType_M	MSI	182	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone3 Sensor Type
ZB_Zone4SensorType_M	MSI	183	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone4 Sensor Type
ZB_Zone5SensorType_M	MSI	184	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone5 Sensor Type
ZB_Zone6SensorType_M	MSI	185	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone6 Sensor Type
ZB_Zone7SensorType_M	MSI	186	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone7 Sensor Type
ZB_Zone8SensorType_M	MSI	187	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone8 Sensor Type
ZB_Zone9SensorType_M	MSI	188	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone8 Sensor Type
ZB_Zone10SensorType_M	MSI	189	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone10 Sensor Type
ZB_Zone11SensorType_M	MSI	190	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone11 Sensor Type
ZB_Zone12SensorType_M	MSI	191	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone12 Sensor Type
ZB_Zone13SensorType_M	MSI	192	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone13 Sensor Type
ZB_Zone14SensorType_M	MSI	193	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone14 Sensor Type
ZB_Zone15SensorType_M	MSI	194	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone15 Sensor Type
ZB_Zone16SensorType_M	MSI	195	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone16 Sensor Type

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_Zone17SensorType_M	MSI	196	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone17 Sensor Type
ZB_Zone18SensorType_M	MSI	197	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone18 Sensor Type
ZB_Zone19SensorType_M	MSI	198	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone19 Sensor Type
ZB_Zone20SensorType_M	MSI	199	Write	8		Refer to ZB_ Zone1SensorType_M		Zigbee Zone20 Sensor Type
DisplayColor	MV	2	Write	10	1 2 3 4 5 6 7 8 9 10	White Green Blue Grey Dark grey Pink Purple Red Orange Black	White	Display Background Color Setting
DisplayLanguage	MV	4	Write	3	1 2 3	English French Spanish	English	Display Language Setting
DisplayTimeFormat	MV	5	Write	2	1 2	AM-PM 24 Hours	AM-PM	Time Format Setting
BACnetNetworkUnits	MV	6	Write	2	1 2	SI Imperial	SI	BACnet Network Units Setting
SystemMode	MV	16	Write	6	1 2 3 4 5 6	NOT USED Cool Heat Fan Auto Dry	Fan	System Mode Setting
FanSpeed	MV	17	Write	9	1 2 3 4 5 6 7 8 9	Low Med High Auto Slow LMed MHigh Cool Power	Auto	Fan Speed Setting
DisplayUseStandbyScreen	MV	32	Write	4	1 2 3 4	No Yes Occ. only Screen sav	No	Standby Screen Setting

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
TempUnits	MV	51	Write	2	1 2	°C (0) °F (1)	°F (1)	Temperature Units Setting (°F or °C)
Relative humidity sensor	MV	149	Write	22	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	None Internal ZB 1 ZB 2 ZB 3 ZB 4 ZB 5 ZB 6 ZB 7 ZB 8 ZB 9 ZB 10 ZB 11 ZB 12 ZB 13 ZB 14 ZB 15 ZB 16 ZB 17 ZB 18 ZB 19 ZB 20	Internal	Humidity Sensor Input Selection
CO2 source	MV	150	Write	22	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	None Local ZB 1 ZB 2 ZB 3 ZB 4 ZB 5 ZB 6 ZB 7 ZB 8 ZB 9 ZB 10 ZB 11 ZB 12 ZB 13 ZB 14 ZB 15 ZB 16 ZB 17 ZB 18 ZB 19 ZB 20	None	CO2 Sensor Input Selection
ADR Enable	MV	152	Write	2	1 2	Off On	Off	ADR Enable/Disable

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_Zone1SnsrType	MV	210	Write	9	1 2 3 4 5 6 7 8 9	None Window Door Motion Env. Data Remove Water Refrig. Freezer	Remove	Zigbee Zone1 Sensor Type
ZB_Zone2SnsrType	MV	220	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone2 Sensor Type
ZB_Zone3SnsrType	MV	230	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone3 Sensor Type
ZB_Zone4SnsrType	MV	240	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone4 Sensor Type
ZB_Zone5SnsrType	MV	250	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone5 Sensor Type
ZB_Zone6SnsrType	MV	260	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone6 Sensor Type
ZB_Zone7SnsrType	MV	270	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone7 Sensor Type
ZB_Zone8SnsrType	MV	280	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone8 Sensor Type
ZB_Zone9SnsrType	MV	290	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone9 Sensor Type
ZB_Zone10SnsrType	MV	300	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone10 Sensor Type
ZB_Zone11SnsrType	MV	310	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone11 Sensor Type
ZB_Zone12SnsrType	MV	320	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone12 Sensor Type
ZB_Zone13SnsrType	MV	330	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone13 Sensor Type
ZB_Zone14SnsrType	MV	340	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone14 Sensor Type
ZB_Zone15SnsrType	MV	350	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone15 Sensor Type
ZB_Zone16SnsrType	MV	360	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone16 Sensor Type
ZB_Zone17SnsrType	MV	370	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone17 Sensor Type
ZB_Zone18SnsrType	MV	380	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone18 Sensor Type
ZB_Zone19SnsrType	MV	390	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone19 Sensor Type
ZB_Zone20SnsrType	MV	400	Write	9		Refer to ZB_Zone1SnsrType		Zigbee Zone20 Sensor Type
DisplayShowOnOff	MV	500	Write	2	1 2	Show Hide	Show	Show or Hide On/Off Setting
DisplayShowMode	MV	501	Write	2	1 2	Show Hide	Show	Show or Hide Mode Setting
DisplayShowSchedule	MV	502	Write	2	1 2	Show Hide	Show	Show or Hide Schedule Setting
DisplayShowMore	MV	503	Write	2	1 2	Show Hide	Show	Show or Hide More Setting
DisplayShowSetTemp	MV	504	Write	2	1 2	Show Hide	Show	Show or Hide Set Temperature Setting

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
DisplayShowSpaceTemp	MV	505	Write	2	1 2	Show Hide	Show	Show or Hide Space Temperature Value
DisplayShowFanSpeed	MV	506	Write	2	1 2	Show Hide	Show	Show or Hide Fan Speed Setting
DisplayShowHumidity	MV	507	Write	2	1 2	Show Hide	Show	Show or Hide Humidity Value
DisplayShowAirQuality	MV	784	Write	2	1 2	Show Hide	Show	Show or Hide Air Quality (for unhealthy levels only)
DisplayShowCO2	MV	792	Write	2	1 2	Show Hide	Show	Show or Hide CO2 Value
TempSenseLoc	MV	516	Write	3	1 2 3	RC (1) IDU (2) 2TH (3)	RC (1)	Temperature Sensing Location Setting
IDUonOff	MV	528	Write	2	1 2	Off On	Off	Indoor Unit On/Off Setting
AirflowUpDown	MV	531	Write	2	1 2	Off On	Off	Airflow Up/Down Setting
AirflowLeftRight	MV	532	Write	2	1 2	Off	Off	Airflow Left/Right Setting
AirflowCircular	MV	533	Write	2	1 2	Off	Off	Airflow Circular Setting
SingleDualSP	MV	538	Write	2	1 2	Single SP Dual SP	Dual SP	Single or Dual Setpoint Setting
OverrideMode	MV	700	Write	6	1 2 3 4 5 6	Off Cool Heat Fan Auto Dry	Auto	Mode Override Setting
OverrideFanSpeed	MV	701	Write	7	1 2 3 4 5 6 7	Low Med High Auto Slow Low-Med Med-High	Med	Fan Speed Override Setting

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
OverrideTimer	MV	703	Write	8	1 2 3 4 5 6 7 8	30 60 90 120 150 180 210 240	30	Timer Override Setting
SetbackMode	MV	704	Write	6	1 2 3 4 5 6	Off Cool Heat Fan Auto Dry	Fan	Mode Setback Setting
SetbackFanSpeed	MV	705	Write	7	1 2 3 4 5 6 7	Low Med High Auto Slow Low-Med Med-High	Med	Fan Speed Setback Setting
CntrlrOccSensor	MV	747	Write	2	1 2	Disable (0) Enable (1)	Disable (0)	On-board Occupancy Sensor Enable/Disable (Only on models PREMTBVC3/PREMTBVC4)
ControllerMinOccOnTime	MV	748	Write	8	1 2 3 4 5 6 7 8	10 min (0) 30 min (1) 60 min (2) 2 hrs (3) 4 hrs (4) 8 hrs (5) 12 hrs (6) 24 hrs (7)	10 min (0)	Minimum Occupancy Time Delay
DisableSchedules	MV	763	Write	2	1 2	Off (0) On (1)	Off (0)	Disable Local Schedules Setting
ZB_Snsr_Wn_Delay	MV	766	Write	5	1 2 3 4 5	0 min (0) 0.5 min (1) 1 min (2) 2 min (3) 5 min (4)	0 min (0)	Zigbee Window Contact Interlock Delay Setting
ZB_Snsr_Win_Interlock	MV	767	Write	3	1 2 3	Disable (0) IDU Off/A (1) IDU Off/M (2)	Disable (0)	Zigbee Window Contact Interlock Setting
AirflowSmart	MV	772	Write	2	1 2	Off On	Off	Airflow Smart Setting
AirflowRefresh	MV	774	Write	2	1 2	Off On	Off	Airflow Refresh Setting

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
FloorTempSensing	MV	776	Write	2	1 2	Disable (0) Enable (1)	Enable (1)	Enable Floor Temperature Sensing (Dual Vane 4-Way Cassette Only)
HumanDetection	MV	777	Write	3	1 2 3	Disable (0) Enable (1) 90° Instl (2)	Disable (0)	Enable Human Detection (Dual Vane 4-Way Cassette Only)
HumanSensingFreq	MV	778	Write	4	1 2 3 4	30 sec (0) 5 sec (1) 1 min (2) 3 min (3)	30 sec (0)	Human Detection Sensing Frequency Adjustment (Dual Vane 4-Way Cassette Only)
HumanSensitivity	MV	779	Write	3	1 2 3	Normal (0) Low (1) High (2)	Normal (0)	Human Detection Sensitivity Adjustment (Dual Vane 4-Way Cassette Only)
DetectionArea	MV	780	Write	3	1 2 3	12x6 (0) 6x6 (1) Flr Det (2)	12x6 (0)	Human Detection Area Adjustment (Dual Vane 4-Way Cassette Only)
UnoccControl	MV	781	Write	3	1 2 3	Disable (0) Unocc/Off (1) Step/Off (2)	Disable (0)	Human Detection Unoccupied Behavior (Dual Vane 4-Way Cassette Only)
UnoccStepTime	MV	782	Write	6	1 2 3 4 5 6	30 min (0) 5 min (1) 10 min (2) 15 min (3) 60 min (4) 90 min (5)	30 min (0)	Human Detection Unoccupied Setpoint Step Timing (Dual Vane 4-Way Cassette Only)
SetbackEnabled	MV	789	Write	2	1 2	Disabled Enabled	Enabled	Enable/Disable Setback
OverrideEnabled	MV	790	Write	2	1 2	Disabled Enabled	Enabled	Enable/Disable Ovverride
USB Logger	MV	792	Write	2	1 2	Off On	Off	Reserved/Do Not Use
ADR Override	MV	793	Write	2	1 2	Disabled Enabled	Disabled	Override Active ADR Event
ZB_Zone1Temperature_M	AI	315	Read	Range				Zigbee Zone1 Temperature
ZB_Zone2Temperature_M	AI	316	Read	Range				Zigbee Zone2 Temperature
ZB_Zone3Temperature_M	AI	317	Read	Range				Zigbee Zone3 Temperature
ZB_Zone4Temperature_M	AI	318	Read	Range				Zigbee Zone4 Temperature
ZB_Zone5Temperature_M	AI	319	Read	Range				Zigbee Zone5 Temperature
ZB_Zone6Temperature_M	AI	320	Read	Range				Zigbee Zone6 Temperature
ZB_Zone7Temperature_M	AI	321	Read	Range				Zigbee Zone7 Temperature
ZB_Zone8Temperature_M	AI	322	Read	Range				Zigbee Zone8 Temperature
ZB_Zone9Temperature_M	AI	323	Read	Range				Zigbee Zone9 Temperature

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_ Zone10Temperature_M	AI	324	Read	Range				Zigbee Zone10 Temperature
Wi-Fi Network Signal Strength	AI	342	Read	Range				Wi-Fi Module Signal Strength
Wi-Fi Module Boot Count	AI	343	Read	Range				Incremental Boot Count Of Wi-Fi Module
ZB_ Zone11Temperature_M	AI	355	Read	Range				Zigbee Zone11 Temperature
ZB_ Zone12Temperature_M	AI	356	Read	Range				Zigbee Zone12 Temperature
ZB_ Zone13Temperature_M	AI	357	Read	Range				Zigbee Zone13 Temperature
ZB_ Zone14Temperature_M	AI	358	Read	Range				Zigbee Zone14 Temperature
ZB_ Zone15Temperature_M	AI	359	Read	Range				Zigbee Zone15 Temperature
ZB_ Zone16Temperature_M	AI	360	Read	Range				Zigbee Zone16 Temperature
ZB_ Zone17Temperature_M	AI	361	Read	Range				Zigbee Zone17 Temperature
ZB_ Zone18Temperature_M	AI	362	Read	Range				Zigbee Zone18 Temperature
ZB_ Zone19Temperature_M	AI	363	Read	Range				Zigbee Zone19 Temperature
ZB_ Zone20Temperature_M	AI	364	Read	Range				Zigbee Zone20 Temperature
ZB_Zone1Humidity_M	AI	365	Read	Range				Zigbee Zone1 Humidity (%)
ZB_Zone2Humidity_M	AI	366	Read	Range				Zigbee Zone2 Humidity (%)
ZB_Zone3Humidity_M	AI	367	Read	Range				Zigbee Zone3 Humidity (%)
ZB_Zone4Humidity_M	AI	368	Read	Range				Zigbee Zone4 Humidity (%)
ZB_Zone5Humidity_M	AI	369	Read	Range				Zigbee Zone5 Humidity (%)
ZB_Zone6Humidity_M	AI	370	Read	Range				Zigbee Zone6 Humidity (%)
ZB_Zone7Humidity_M	AI	371	Read	Range				Zigbee Zone7 Humidity (%)
ZB_Zone8Humidity_M	AI	372	Read	Range				Zigbee Zone8 Humidity (%)
ZB_Zone9Humidity_M	AI	373	Read	Range				Zigbee Zone9 Humidity (%)
ZB_Zone10Humidity_M	AI	374	Read	Range				Zigbee Zone10 Humidity (%)
ZB_Zone11Humidity_M	AI	375	Read	Range				Zigbee Zone11 Humidity (%)
ZB_Zone12Humidity_M	AI	376	Read	Range				Zigbee Zone12 Humidity (%)
ZB_Zone13Humidity_M	AI	377	Read	Range				Zigbee Zone13 Humidity (%)

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_Zone14Humidity_M	AI	378	Read	Range				Zigbee Zone14 Humidity (%)
ZB_Zone15Humidity_M	AI	379	Read	Range				Zigbee Zone15 Humidity (%)
ZB_Zone16Humidity_M	AI	380	Read	Range				Zigbee Zone16 Humidity (%)
ZB_Zone17Humidity_M	AI	381	Read	Range				Zigbee Zone17 Humidity (%)
ZB_Zone18Humidity_M	AI	382	Read	Range				Zigbee Zone18 Humidity (%)
ZB_Zone19Humidity_M	AI	383	Read	Range				Zigbee Zone19 Humidity (%)
ZB_Zone20Humidity_M	AI	384	Read	Range				Zigbee Zone20 Humidity (%)
ZB_Zone1CO2_M	AI	385	Read	Range				Zigbee Zone1 CO2 (PPM)
ZB_Zone2CO2_M	AI	386	Read	Range				Zigbee Zone2 CO2 (PPM)
ZB_Zone3CO2_M	AI	387	Read	Range				Zigbee Zone3 CO2 (PPM)
ZB_Zone4CO2_M	AI	388	Read	Range				Zigbee Zone4 CO2 (PPM)
ZB_Zone5CO2_M	AI	389	Read	Range				Zigbee Zone5 CO2 (PPM)
ZB_Zone6CO2_M	AI	390	Read	Range				Zigbee Zone6 CO2 (PPM)
ZB_Zone7CO2_M	AI	391	Read	Range				Zigbee Zone7 CO2 (PPM)
ZB_Zone8CO2_M	AI	392	Read	Range				Zigbee Zone8 CO2 (PPM)
ZB_Zone9CO2_M	AI	393	Read	Range				Zigbee Zone9 CO2 (PPM)
ZB_Zone10CO2_M	AI	394	Read	Range				Zigbee Zone10 CO2 (PPM)
ZB_Zone11CO2_M	AI	395	Read	Range				Zigbee Zone11 CO2 (PPM)
ZB_Zone12CO2_M	AI	396	Read	Range				Zigbee Zone12 CO2 (PPM)
ZB_Zone13CO2_M	AI	397	Read	Range				Zigbee Zone13 CO2 (PPM)
ZB_Zone14CO2_M	AI	398	Read	Range				Zigbee Zone14 CO2 (PPM)
ZB_Zone15CO2_M	AI	399	Read	Range				Zigbee Zone15 CO2 (PPM)
ZB_Zone16CO2_M	AI	400	Read	Range				Zigbee Zone16 CO2 (PPM)
ZB_Zone17CO2_M	AI	401	Read	Range				Zigbee Zone17 CO2 (PPM)
ZB_Zone18CO2_M	AI	402	Read	Range				Zigbee Zone18 CO2 (PPM)
ZB_Zone19CO2_M	AI	403	Read	Range				Zigbee Zone19 CO2 (PPM)
ZB_Zone20CO2_M	AI	404	Read	Range				Zigbee Zone20 CO2 (PPM)
FilterRemainTime_M	AI	500	Read	Range				Filter Time Remaining (Hours)
CurrentErrorCode_M	AI	503	Read	0				Current Error Code
PipeInTemp_M	AI	506	Read	Range				Pipe In Temperature
PipeOutTemp_M	AI	507	Read	Range				Pipe Out Temperature
MiddlePipeTemp_M	AI	508	Read	Range				Middle Pipe Temperature
ODUgivenAddrs_M	AI	509	Read	Range				Assigned Address By Outdoor Unit

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
Effective Cool Setpoint	AI	520	Read	Range				Effective Dual Setpoint Cooling Setpoint When ADR Is Active
Effective Heat Setpoint	AI	521	Read	Range				Effective Dual Setpoint Heating Setpoint When ADR Is Active
Effective Single Setpoint	AI	522	Read	Range				Effective Single Setpoint Setpoint When ADR Is Active
Effective Single Deadband	AI	523	Read	Range				Effective Single Setpoint Deadband When ADR Is Active
PreviousErrorCode_M	AV	622	Read	0				2nd Chronological Error Code
ErrorCode3_M	AV	623	Read	0				3rd Chronological Error Code
ErrorCode4_M	AV	624	Read	0				4th Chronological Error Code
ErrorCode5_M	AV	625	Read	0				5th Chronological Error Code
ErrorCode6_M	AV	626	Read	0				6th Chronological Error Code
ErrorCode7_M	AV	627	Read	0				7th Chronological Error Code
ErrorCode8_M	AV	628	Read	0				8th Chronological Error Code
ErrorCode9_M	AV	629	Read	0				9th Chronological Error Code
ErrorCode10_M	AV	630	Read	0				10th Chronological Error Code
OldestErrorCode_M	AV	631	Read	0				11th Chronological Error Code
ZB_LowBattAlarm	BV	5	Read	2	1 2	Off On	Off	Global Zigbee Battery Sensor Alarm
ADR Active	BV	49	Read	2	1 2	Off On	0	Effective ADR Status
FilterAlarm_M	BV	500	Read	2	1 2	Filter OK Svc. Filter!	Filter OK	Filter Alarm Status
MsgAddressLock_M	BV	533	Read	2	1 2	Off On	Off	Central Control Address Lock Status
MsgOverrideActive	BV	541	Read	2	1 2	Off On	Off	Override Status
ZB_Snsr_Wn_Interlock_M	BV	552	Read	2	1 2	Wn Interlock Activated Wn Interlock Deactivated	Wn Interlock Activated	Zigbee Window Contact Interlock Status
Wi-Fi Device Name	CSV	4	Read	0				Wi-Fi Device Name
Wi-Fi Firmware Version	CSV	5	Read	0				Wi-Fi Module Firmware Version
MAC Address	CSV	6	Read	0				Wi-Fi Module MAC Address
Wi-Fi Network SSID	CSV	7	Read	0				Wi-Fi Network SSID

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
Wi-Fi Network IP Address	CSV	8	Read	0				Wi-Fi Network IP Address
Zigbee Firmware Revision	CSV	9	Read	0				Zigbee Firmware Version
Zigbee IEEE Address	CSV	10	Read	0				Zigbee MAC Address
ZB_Zone1Address_M	CSV	11	Read	0				Zigbee Zone1 Address
ZB_Zone2Address_M	CSV	12	Read	0				Zigbee Zone2 Address
ZB_Zone3Address_M	CSV	13	Read	0				Zigbee Zone3 Address
ZB_Zone4Address_M	CSV	14	Read	0				Zigbee Zone4 Address
ZB_Zone5Address_M	CSV	15	Read	0				Zigbee Zone5 Address
ZB_Zone6Address_M	CSV	16	Read	0				Zigbee Zone6 Address
ZB_Zone7Address_M	CSV	17	Read	0				Zigbee Zone7 Address
ZB_Zone8Address_M	CSV	18	Read	0				Zigbee Zone8 Address
ZB_Zone9Address_M	CSV	19	Read	0				Zigbee Zone9 Address
ZB_Zone10Address_M	CSV	20	Read	0				Zigbee Zone10 Address
ZB_Zone11Address_M	CSV	21	Read	0				Zigbee Zone11 Address
ZB_Zone12Address_M	CSV	22	Read	0				Zigbee Zone12 Address
ZB_Zone13Address_M	CSV	23	Read	0				Zigbee Zone13 Address
ZB_Zone14Address_M	CSV	24	Read	0				Zigbee Zone14 Address
ZB_Zone15Address_M	CSV	25	Read	0				Zigbee Zone15 Address
ZB_Zone16Address_M	CSV	26	Read	0				Zigbee Zone16 Address
ZB_Zone17Address_M	CSV	27	Read	0				Zigbee Zone17 Address
ZB_Zone18Address_M	CSV	28	Read	0				Zigbee Zone18 Address
ZB_Zone19Address_M	CSV	29	Read	0				Zigbee Zone19 Address
ZB_Zone20Address_M	CSV	30	Read	0				Zigbee Zone20 Address
ZB_Zone1Status_M	MSI	210	Read	7	1 2 3 4 5 6 7	None Closed Opened No motion Motion Normal Leak	Closed	Zigbee Zone1 Status
ZB_Zone1BattStatus_M	MSI	211	Read	3	1 2 3	None Normal Low	None	Zigbee Zone1 Battery Status
ZB_Zone1PairingStatus_M	MSI	212	Read	4	1 2 3 4	Not paired Online Invalid Offline	Not paired	Zigbee Zone1 Pairing Status

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_Zone2Status_M	MSI	220	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone2 Status
ZB_Zone2BattStatus_M	MSI	221	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone2 Battery Status
ZB_Zone2PairingStatus_M	MSI	222	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone2 Pairing Status
ZB_Zone3Status_M	MSI	230	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone3 Status
ZB_Zone3BattStatus_M	MSI	231	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone3 Battery Status
ZB_Zone3PairingStatus_M	MSI	232	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone3 Pairing Status
ZB_Zone4Status_M	MSI	240	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone4 Status
ZB_Zone4BattStatus_M	MSI	241	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone4 Battery Status
ZB_Zone4PairingStatus_M	MSI	242	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone4 Pairing Status
ZB_Zone5Status_M	MSI	250	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone5 Status
ZB_Zone5BattStatus_M	MSI	251	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone5 Battery Status
ZB_Zone5PairingStatus_M	MSI	252	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone5 Pairing Status
ZB_Zone6Status_M	MSI	260	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone6 Status
ZB_Zone6BattStatus_M	MSI	261	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone6 Battery Status
ZB_Zone6PairingStatus_M	MSI	262	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone6 Pairing Status
ZB_Zone7Status_M	MSI	270	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone7 Status
ZB_Zone7BattStatus_M	MSI	271	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone7 Battery Status
ZB_Zone7PairingStatus_M	MSI	272	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone7 Pairing Status
ZB_Zone8Status_M	MSI	280	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone8 Status
ZB_Zone8BattStatus_M	MSI	281	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone8 Battery Status
ZB_Zone8PairingStatus_M	MSI	282	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone8 Pairing Status
ZB_Zone9Status_M	MSI	290	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone9 Status
ZB_Zone9BattStatus_M	MSI	291	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone9 Battery Status
ZB_Zone9PairingStatus_M	MSI	292	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone9 Pairing Status

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_Zone10Status_M	MSI	300	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone10 Status
ZB_Zone10BattStatus_M	MSI	301	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone10 Battery Status
ZB_ Zone10PairingStatus_M	MSI	302	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone10 Pairing Status
ZB_Zone11Status_M	MSI	310	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone11 Status
ZB_Zone11BattStatus_M	MSI	311	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone11 Battery Status
ZB_ Zone11PairingStatus_M	MSI	312	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone11 Pairing Status
Wi-Fi Module Status	MSI	315	Read	7	1 2 3 4 5 6 7	Offline Initializing Ready Booting Resetting Fail Testing	Offline	Wi-Fi Module Status
Wi-Fi Status	MSI	316	Read	7	1 2 3 4 5 6 7	Idle Associate Config. Ready Online Disconn. Failure	Idle	Wi-Fi Network Status
BACnet IP Status	MSI	317	Read	2	1 2	Disabled Enabled	Disabled	BACnet IP Network Status
SMTP Server Status	MSI	318	Read	4	1 2 3 4	Unknown Disabled Offline Online	Unknown	Status Of SMTP Server Used For Email Notifications
ZB_Zone12Status_M	MSI	320	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone12 Status
ZB_Zone12BattStatus_M	MSI	321	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone12 Battery Status
ZB_ Zone12PairingStatus_M	MSI	322	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone12 Pairing Status
ZB_Zone13Status_M	MSI	330	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone13 Status
ZB_Zone13BattStatus_M	MSI	331	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone13 Battery Status
ZB_ Zone13PairingStatus_M	MSI	332	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone13 Pairing Status
ZB_Zone14Status_M	MSI	340	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone14 Status
ZB_Zone14BattStatus_M	MSI	341	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone14 Battery Status

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ZB_ Zone14PairingStatus_M	MSI	342	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone14 Pairing Status
ZB_Zone15Status_M	MSI	350	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone15 Status
ZB_Zone15BattStatus_M	MSI	351	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone15 Battery Status
ZB_ Zone15PairingStatus_M	MSI	352	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone15 Pairing Status
ZB_Zone16Status_M	MSI	360	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone16 Status
ZB_Zone16BattStatus_M	MSI	361	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone16 Battery Status
ZB_ Zone16PairingStatus_M	MSI	362	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone16 Pairing Status
ZB_Zone17Status_M	MSI	370	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone17 Status
ZB_Zone17BattStatus_M	MSI	371	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone17 Battery Status
ZB_ Zone17PairingStatus_M	MSI	372	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone17 Pairing Status
ZB_Zone18Status_M	MSI	380	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone18 Status
ZB_Zone18BattStatus_M	MSI	381	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone18 Battery Status
ZB_ Zone18PairingStatus_M	MSI	382	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone18 Pairing Status
ZB_Zone19Status_M	MSI	390	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone19 Status
ZB_Zone19BattStatus_M	MSI	391	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone19 Battery Status
ZB_ Zone19PairingStatus_M	MSI	392	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone19 Pairing Status
ZB_Zone20Status_M	MSI	400	Read	7		Refer to ZB_Zone1Status_M		Zigbee Zone20 Status
ZB_Zone20BattStatus_M	MSI	401	Read	3		Refer to ZB_ Zone1BattStatus_M		Zigbee Zone20 Battery Status
ZB_ Zone20PairingStatus_M	MSI	402	Read	4		Refer to ZB_ Zone1PairingStatus_M		Zigbee Zone20 Pairing Status
PipeTempCnfg_M	MSI	544	Read	2	1 2	Off On	Off	Pipe Temperature Configuration Status (Supported or Unsupported)
ODUsilentMode_M	MSI	600	Read	2	1 2	Off On	Off	ODU Silent Mode Status
SmartLoadCtrl_M	MSI	601	Read	2	1 2	Off On	Off	Smart Load Control Status
OccStatus_M	MSI	602	Read	2	1 2	Off On	Off	Occupancy Status

BACnet Object Name	Object Type	BACnet Instance	Read/ Write	# Facets	Index	Text	Default Value	Description
ODUstatus_M	MSI	603	Read	2	1 2	Off On	Off	Outdoor Unit Status
ODUType_M	MSI	604	Read	4	1 2 3 4	Multi-V Multi Single Multi-V	Multi-V	Outdoor Unit Type
IDUType_M	MSI	605	Read	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Ceil.Cass. Duct CVT Com. Std. Wall-mount ERV DX Console Rooftop ERV AWHP Hydrokit Hyd.Cscd. ShwCase VAHU OAU	Ceil.Cass.	Indoor Unit Type
AirQuality_M	MSI	611	Read	4	1 2 3 4	Good Normal Bad Unhealthy	Good	Air Quality Status

Who to call for assistance

Freight Damage and Unit Replacements	Your LG Manufacturer Representative
Missing Parts	Your LG Manufacturer Representative
Freight Damage and Unit Replacements	Your LG Manufacturer Representative
Received Wrong Indoor Unit Model	Your LG Manufacturer Representative
Installation, Startup, and Commissioning Technical Assistance	1-888-865-3026

For warranty information, visit www.lghvac.com.

LG Electronics
Commercial Air Conditioning Division
4300 Northpoint Parkway
Alpharetta, Georgia 30022
www.lghvac.com

LG Customer Information Center, Commercial Products

1-888-865-3026 USA

Follow the prompts for commercial A/C products and parts.

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Supercedes: UM_CRC2_Series_Controllers_9_21