

# ExactLogic BACnet Communicating Thermostat EXL01624 Sequence Datasheet

Fan Coil with Modulating H/C and 2-Stage Heat or Cool or 1-Stage H/C



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# **Operating Sequence**

# Standard Occupied

During normal occupied operation the display will show the current room temperature. The first press of either right pair of keys will show the current room setpoint. Additional presses will adjust the setpoint up or down by 0.5 degrees. The thermostat keypad will time out after 5 seconds without a key press, and the display will switch back to displaying the room temperature.

The left pair of keys allows for the adjustment of the fan speed. The current mode is shown with the first key press; additional key presses will show the adjustment to the mode. AV-62 is used to select the number of fan speeds, and AV-63 will show what speed the fan is currently set to. Refer to the table below for the values of AV-62 (Fan Mode Status) and AV-63 (Fan Speed Status)

AV-62	Mode	
0	AUTO Only	
1	AUTO-ON	
2	OFF-AUTO-ON	
3	OFF-1-2-AUTO	
4	OFF-1-2-3-AUTO	

AV-63	Fan Speed
0	OFF
1	Fan Speed 1
2	Fan Speed 2
3	Fan Speed 3
4	AUTO
5	ON

#### **Fan Speeds**

The thermostat is capable of controlling 3 stages of fan speeds. The user can select a constant fan speed or let the thermostat control the increasing or decreasing of the fan speeds. When a constant fan speed is selected, the thermostats will stay in that mode until changed by the user.

When the fan speed is in AUTO, the thermostat will increase or decrease that fan speed depending on the heating or cooling signal. There is an enable setpoint for each fan speed, LO is AV-46, MED is AV-47, HI is AV-48. When the heating or cooling signal is above the fan speed setpoint the corresponding fan speed will turn on. The fan speed will decrease when the heating or cooling signal is 5% below its enable setpoint.

There is a 120 second minimum on timer and 90 second minimum off time short cycle delay on each fan speed.

#### Internal/External Thermistor Control

The thermostat control sequence can use the internal thermistor or an external thermistor connected to AI-2. Setting BV-67 to OFF (default) the thermostat will use the internal thermistor. Setting BV-67 to ON the control sequence will use the external thermistor.

The current controlling temperature is located at AV-20. This value will be displayed on the LCD of the thermostat and should be used on any workstation displays.





#### **Control Sequence – Heat / Cool**

There are two operational modes that can be selected via BV-60. When BV-60 is INACTIVE the heating and cooling will be controlled by the space temperature. When BV-60 is ACTIVE the heating and cooling will be controlled by the discharge air temperature (AI-3).

Heating and cooling is achieved by modulating outputs or by staging the digital outputs. The modulating heating and cooling outputs are always on. The desired staging of the digital outputs are selected by BV-61, BV-62, and BV-63. Available selections are 2 stages heat, 2 stages cool, or 1 stage heat and 1 stage cool.

#### **Space Temperature Mode**

When occupied, the thermostat will maintain its occupied setpoint. The deadband is controlled by the cooling/heating offset (default 1 degree). Should the room temperature drift below or above the heating and cooling setpoints, the analog heating and cooling outputs will modulate as needed via PI control. The staging of the digital heating and cooling outputs is controlled by enable the setpoints. Stage 1 and 2 heating are enabled by AV-38 and AV-39, stage 1 and 2 cooling are enabled by AV-40 and AV-41. These setpoints are compared to the heating or cooling signal (AV-8 and AV-9) to determine the state of the staged outputs.

#### **Discharge Temperature Mode**

In this mode the thermostat will modulate the analog outputs to maintain the discharge air setpoint based on the current fan speed. Once the heating or cooling signal is above its respective stage 1 enable setpoint, the discharge air PI control will begin to modulate the analog outputs. The setpoints to control the discharge air for heating and cooling are AV-49 through AV-54.

The discharge air modulating signal can be limited by using the Heat Max/Min % and the Cool Max/Min %. The points are AV-55 through AV-58. The purpose of these points is to limit the heating and cooling. The Min and Max are defaulted to 0% and 100% respectively.

The staging of the digital outputs is the same as the Space Temperature Mode.

#### Standard Unoccupied

During unoccupied operation the thermostat will continue to display the room temperature. When in an unoccupied state pressing one of the right pair of keys will display a message indicating the thermostat is in night mode, preventing the setpoint from being adjusted. To adjust the room setpoint when unoccupied the thermostat must be set to night override.

#### **Control Sequence**

When in the unoccupied mode, the room will be controlled by the unoccupied cooling/heating setpoints. The fan and cooling/heating stages will operate the same as the occupied control sequence.

# Night Override

Set the night override by pressing one of the left pair of keys. The display will switch to allow the user to set the night override time. Additional presses of the keys will adjust the time up or down by 0.5 hour increments. The night override can be increased up to the override limit set at AV-73, the default is 5 hours. When the thermostat is in night override, the first press of one of the left pair of keys will display the override time remaining. Additional key presses will add/subtract 0.5 hours to the time that was remaining. When the timer reaches zero the thermostat will return to the unoccupied mode. In the night override mode, the right pair of keys can be used to adjust the room setpoint. The thermostat keypad will time out after 5 seconds without a key press, and the display will switch back to displaying the room temperature.





The thermostat can be set to night override by writing a value to AV-74 through BACnet. The value can not exceed the night override limit set at AV-73. If the night override time is set higher than the limit, the night override timer will be set the limit. The night override limit default is 5 hours.

If the thermostat is commanded to the occupied mode while in night override, the override timer will be cleared to zero and the thermostat will enter the occupied mode.

#### **Control Sequence**

When the thermostat is in the override mode, the room will be controlled by the occupied cooling/heating setpoints. The fan and cooling/heating stages will operate the same as the occupied control sequence.

Note: There is no fan control in the override mode. The fan will run in the AUTO mode.

### Motion/Humidity Option Card

The Motion/Humidity Option Card can be used for Motion Only, Humidity Only, or Motion/Humidity together. In order to use the Motion Sensor (either stand alone or with Humidity), BV-64 must be set to ACTIVE. The Humidity Sensor can be enabled by setting AV-31 to 4. These settings will automatically provide the required voltage to power the sensors. The motion sensor status will show on BI-1. Once the motion sensor does not sense motion, the delay at AV-81 is used to delay the ACTIVE to INACTIVE command to the Scheduled Occupied command at BO-5, priority array entry 10. The Humidity value is shown on AI-1. The Humidity Sensor will automatically be scaled by setting AV-31 to 4.

#### Disabling of the Splash, Setup Menu, or Field Service Mode

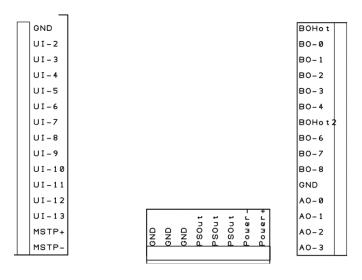
When the thermostat is installed in a public location there may be times when the setup of the thermostat will need to be disabled to prevent tenants from changing the configuration while still giving them access to change the setpoints and control after hours modes. The following points have been added to allow this:

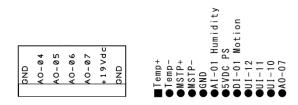
BV-57 = Setting ACTIVE will disable the "EXACTLOGIC" splash display after key presses BV-58 = Setting ACTIVE will disable access to the Setup Menu where the Network/MAC/Baud Rate/etc are set BV-59 = Setting ACTIVE will disable access to the Field Service Mode where Time/Schedule/Setpoints/etc are set





# Installation





#### Fig. 4

\*Note: Thermostat Common Relay point (BO Hot) usually 24VAC/DC or R

\*Note: AI-2 through AI-5 and BI-2 through BI-5 are wired to UI-2 through UI-5. Each universal Input can only be used as an AI or a BI

GND Neutral/Groun	d
UI-2Universal Input	2
UI-3Universal Input	
UI-4Universal Input	4
UI-5Universal Input	
UI-6Universal Input	
UI-7Universal Input	
UI-8Universal Input	
UI-9Universal Input	
UI-10Universal Input 1	
UI-11Universal Input 1	
UI-12Universal Input 1	
UI-13Universal Input 1	
MSTP + Network Line Positiv	0
MSTPNetwork Line Positiv	
NSTPNetwork Line Negativ	е
BO Hot 24VAC/DC Input for Relays 1-5	*
BO-0Relay 1 Output, 24VAC/D	
BO-1Relay 2 Output, 24VAC/D	
BO-2Relay 3 Output, 24VAC/D	
BO-3Relay 4 Output, 24VAC/D	
$BO_4$ Bolay 5 Output 24VAC/D	~
BO-4Relay 5 Output, 24VAC/D0 BO Hot 2	J )*
BO-6Relay 7 Output, 24VAC/DC	~
BO-7Relay 8 Output, 24VAC/DO	
BO-8Relay 9 Output, 24VAC/D	
GND Neutral/Groun	
AO-0 Analog Output 0, 0-10	
AO-1 Analog Output 1, 0-10	
AO-2 Analog Output 2, 0-10	
AO-3 Analog Output 3, 0-10	V
GNDNeutral/Groun	Ч
GND	
GND	
PSOut	
PSOut24VAC/DC Ho PSOut	
PSOut	
Power Neutral/Groun	
Power +24VAC/DC Ho	ot
GNDNeutral/Groun	Ч
AO-04 Analog Output 4, 0-10	
AO-04 Analog Output 4, 0-10 AO-05 Analog Output 5, 0-10	
	v
AO-06 Analog Output 6, 0-10	v
AO-07 Analog Output 7, 0-10	
+19Vdc	ل ام
GND Neutral/Groun	u





# **Output Wiring**

Output/Label	Heat / Cool Mode
BO0	Fan Speed 1
BO1	Fan Speed 2
BO2	Fan Speed 3
BO3	Heating Stage 1 or Cooling Stage 1
BO4	Heating Stage 2 or Cooling Stage 1 or Cooling Stage 2
AO0	Heating 0-10 Vdc 0-100%
AO1	Cooling 0-10 Vdc 0-100%

# **Reserved BACnet Points**

The following are points reserved by the thermostat for operation.

#### **Analog Inputs**

Instance	Object Name	Description	Read/Write	Default
AI-0	Room Temp	Reading of the internal thermistor in counts. 0-1024	R	variable
AI-1	Humidity	Reading from the Humidity sensor add-on card	R	variable
AI-2	Ext. Room Temp	Optional external room temperature input	R	variable
AI-3	Discharge Air Temp	Optional discharge air sensor for sequence control	R	variable
AI-4	Analog Input 04	Reading of the external input 4 in counts. 0-1024	R	variable
AI-5	Analog Input 05	Reading of the external input 5 in counts. 0-1024	R	variable

#### **Analog Outputs**

Instance	Object Name	Description	Read/Write	Default
AO-0	Heat	0-10V output for control of heating	R/W	0.0
AO-1	Cool	0-10V output for control of cooling	R/W	0.0
AO-2	Analog Output 2	Variable 0-14VDC, 150mA output	R/W	0.0





# Analog Values

Instance	Object Name	Description	Read/Write	Default
AV-0	Mode of Operation	The mode that the thermostat is currently in. 0 = Heat Mode 1 = Cool Mode 2 = Idle 3 = Afterhours 4 = Unoccupied Idle 5 = Unoccupied Heat Mode 6 = Unoccupied Cool Mode	R	4
AV-1	Analog Value 001			
AV-2	Analog Value 002			
AV-3	Analog Value 003			
AV-4	Current Htg SP	The setpoint that controls heating. If the room temperature goes below this setpoint the thermostat will enter heating mode.	R	60.0°F/16°C
AV-5	Current Clg SP	The setpoint that controls cooling. If the room temperature goes above this setpoint the thermostat will enter cooling mode.	R	80.0°F/27°C
AV-6	Heating SP	The setpoint used for heating during occupied mode. This setpoint is calculated by AV-66 (Current SP) – AV-70 (Heating Offset)	R	72.0°F/22.5°C
AV-7	Cooling SP	The setpoint used for cooling during occupied mode. This setpoint is calculated by AV-66 (Current SP) + AV-69 (Cooling Offset)	R	74.0°F/23.5°C
AV-8	Heat Signal (%)	Current heating signal as a percent	R	0%
AV-9	Cool Signal (%)	Current cooling signal as a percent	R	0%
AV-10	Analog Value 010			
AV-11	Analog Value 011			
AV-12	Analog Value 012			
AV-13	Analog Value 013			
AV-14	Analog Value 014			
AV-15	Analog Value 015			
AV-16	Analog Value 016			
AV-17	Analog Value 017			
AV-18	DAT Kp	The current Kp used for discharge air PI Controller	R	0.0
AV-19 AV-20	DAT Ki Room Temp	The current Ki used for discharge air PI Controller Selected from either AI-0 or AI-2. BV-67 is used for selection. This is the value displayed on the LCD of the thermostat and should be used to	R	0.0 variable
		display the temperature on any workstation display.		
AV-21	Discharge Air SP	Current Discharge Air setpoint	R	65.0°F/18.0°C
AV-22	DAT Lo Fan	Discharge Air setpoint for Lo Fan Speed. Dependent on heating or cooling mode.	R	65.0°F/18.0°C
AV-23	DAT Med Fan	Discharge Air setpoint for Med Fan Speed. Dependent on heating or cooling mode.	R	60.0°F/15.0°C
AV-24	DAT Hi Fan	Discharge Air setpoint for Hi Fan Speed. Dependent on heating or cooling mode.	R	55.0°F/13.0°C
AV-25	Analog Value 025			





AV-26	Cooling Deviation	The difference in the zone temperature from cooling setpoint		Varies
AV-27	Heating Deviation	The difference in the zone temperature from heating setpoint		Varies
AV-28	Deviation from SP	The difference in the zone temperature from setpoint, determined by whether the zone is heating or cooling	R	Varies
AV-29	Zone Scan	Used on workstation displays to give a graphical representation for a zones mode	R	0%
AV-30	AI-0 Setup	Parameter used to set the input type. 0 = counts 1 = temperature 2 = 4-20mA 3 = 0-5V 4 = 0-10V 5 = pulse	R	1
AV-31	AI-1 Setup	See AV-30	R	0
AV-32	AI-2 Setup	See AV-30	R	0
AV-33	AI-3 Setup	See AV-30	R	0
AV-34	AI-4 Setup	See AV-30	R	0
AV-35	AI-5 Setup	See AV-30	R	0
AV-36	DAT H/C Kp	Kp used for the discharge air PI Controller when there is positive fan status	R/W	1.0
AV-37	DAT H/C Ki	Ki used for the discharge air PI Controller when there is positive fan status	R/W	1.0
AV-38	Stage 1 Htg% Enable	The percentage of heating signal required to turn on the stage 1 heating digital output	R/W	10%
AV-39	Stage 2 Htg% Enable	The percentage of heating signal required to turn on the stage 2 heating digital output	R/W	60%
AV-40	Stage 1 Clg% Enable	The percentage of cooling signal required to turn on the stage 1 cooling digital output	R/W	10%
AV-41	Stage 2 Clg% Enable	The percentage of cooling signal required to turn on the stage 2 cooling digital output	R/W	60%
AV-42	AO-0 Max Output	Used to scale the analog output. This is the maximum voltage the AO will output. (i.e. 0-5V valve or damper)	R/W	10V
AV-43	AO-0 Min Output	Used to scale the analog output. This is the minimum voltage the AO will output. (i.e. 2-10V valve or damper)	R/W	0V
AV-44	AO-1 Max Output	Used to scale the analog output. This is the maximum voltage the AO will output. (i.e. 0-5V valve or damper)	R/W	10V
AV-45	AO-1 Min Output	Used to scale the analog output. This is the minimum voltage the AO will output. (i.e. 2-10V valve or damper)	R/W	0V
AV-46	Lo Fan Enable SP	To start low fan speed the heating or cooling signal needs to be high than this setpoint	R/W	10%
AV-47	Med Fan Enable SP	To start medium fan speed the heating or cooling signal needs to be high than this setpoint	R/W	40%
AV-48	Hi Fan Enable SP	To start high fan speed the heating or cooling signal needs to be high than this setpoint	R/W	70%





AV-49	DAT Heat SP, Lo	The discharge air setpoint for low fan speed when		85 0°E/20 0°C
AV-49	Fan	in the heating mode	R/W	85.0°F/30.0°C
AV-50	DAT Cool SP, Lo Fan	The discharge air setpoint for low fan speed when in the cooling mode	R/W	65.0°F/18.0°C
AV-51	DAT Heat SP, Med Fan	The discharge air setpoint for medium fan speed when in the heating mode	R/W	90.0°F/32.0°C
AV-52	DAT Cool SP, Med Fan	The discharge air setpoint for medium fan speed when in the cooling mode	R/W	60.0°F/15.0°C
AV-53	DAT Heat SP, Hi Fan	The discharge air setpoint for high fan speed when in the heating mode	R/W	95.0°F/35.0°C
AV-54	DAT Cool SP, Hi Fan	The discharge air setpoint for high fan speed when in the cooling mode	R/W	55.0°F/13.0°C
AV-55	Max Heating %	The maximum heating signal the analog heating output will control too. Useful when a space is over heating	R/W	100%
AV-56	Min Heating %	The minimum heating signal the analog heating output will control too.	R/W	0%
AV -57	Max Cooling %	The maximum cooling signal the analog cooling output will control too. Useful when a space is over cooling	R/W	100%
AV-58	Min Cooling %	The minimum cooling signal the analog cooling output will control too.	R/W	0%
AV-59	Ave Time Base	Factor used to average the room temperature. A small number will allow the room temperature to change faster over time. A large number will cause the room temperature to change slower over time.	R	100
AV-60	Cal Offset	The calibration offset for the internal thermistor.	R	variable
AV-61	Space Alarm Offset	This offset +/- the Current Cooling/Heating SP is used to determine if the space is too warm/cold, and set an alarm if necessary.	R/W	5.0°F/2.5°C
AV-62	# of Fan Speeds	Select the number of fan speeds for a multispeed fan. 0 = Auto Only 1 = AUTO - ON 2 = Off - AUTO - ON 3 = Off-1-2-AUTO 4 = Off-1-2-3-AUTO	R/W	4
AV-63	Current Fan Speed	The fan speed the thermostat is currently running. 0 = OFF 1 = Fan Speed 1 2 = Fan Speed 2 3 = Fan Speed 3 4 = AUTO 5 = ON	R	4
AV-64	Vacant Clg SP	Used in Hotel Mode. When a room is known vacant, the setpoint can be set below the unoccupied setpoint.	R/W	85.0°F
AV-65	Vacant Htg SP	Used in Hotel Mode. When a room is known vacant, the setpoint can be set below the Sunoccupied setpoint.	R/W	55.0°F





AV-66	Room Setpoint	The occupied room setpoint	R/W	73.0°F/23.0°C
AV-67	Occupied Sp Hi Limit	The maximum occupied room setpoint allowed.	R/W	85.0°F/30.0°C
AV-68	Occupied Sp Lo Limit	The minimum occupied room setpoint allowed	R/W	55.0°F/13.0°C
AV-69	Clg Offset	The offset from Room Setpoint used to calculate the Occupied Cooling SP	R/W	1.0°F/0.5°C
AV-70	Htg Offset	The offset from Room Setpoint used to calculate the Occupied Heating SP	R/W	1.0°F/0.5°C
AV-71	Unoccupied Clg Sp	The cooling setpoint used when the thermostat is unoccupied.	R/W	80.0°F/27.0°C
AV-72	Unoccupied Htg SP	The heating setpoint used when the thermostat is unoccupied.	R/W	60.0°F/16.0°C
AV-73	After Hours Limit	The maximum hours the thermostat is allowed to run during afterhours time. Setting this will set the thermostat to occupied operation. (0-99.9 hrs)	R/W	5.0 hrs
AV-74	After Hours Timer	The current amount of afterhours time left.	R	0.0 hrs
AV-75	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-76	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-77	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-78	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-79	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-80	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-81	Motion OFF Delay	The amount of time to delay the ON->OFF transition of the motion sensor occupied command after no motion is detected	R/W	900 sec
AV-82	Analog Value 082			
AV-83	Analog Value 083			
AV-84	Analog Value 084			
AV-100	Analog Value 100	Internal thermistor display descriptor. The present value is automatically transferred. The AV description holds the descriptor to display.	R	variable
AV-101	Analog Value 101	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display.	R/W	
AV-102	Analog Value 102	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-103	Analog Value 103	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-104	Analog Value 104	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	





AV-105	Analog Value 105	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-106	Analog Value 106	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-107	Analog Value 107	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-108	Analog Value 108	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-109	Analog Value 109	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-110	Analog Value 110	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-111	Analog Value 111	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-112	Analog Value 112	Outside Air Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	





### **Binary Inputs**

Instance	Object Name	Description	Read/Write	Default
BI-0	Binary Input 00		R	
BI-1	Motion	Motion sensor status from the add-on card	R	
BI-2	Binary Input 02		R	
BI-3	Binary Input 03		R	
BI-4	Binary Input 04		R	
BI-5	Opt. Occupied Relay	Optional occupancy relay input	R	

### **Binary Outputs**

Instance	Object Name	Description	Read/Write	Default
BO-0	Fan Speed Lo	Digital output for fan speed 1	R/W	OFF
BO-1	Fan Speed Med	Digital output for fan speed 2	R/W	OFF
BO-2	Fan Speed Hi	Digital output for fan speed 3	R/W	OFF
BO-3	Stage 1 H/C	Digital output for stage 1 heat or cool.	R/W	OFF
BO-4	Stage 2 H/C	Digital output for stage 1 cool, or stage 2 heat/cool.	R/W	OFF
BO-5	Scheduled Occupied	Logical point only. Used for scheduling purposes. INACTIVE is unoccupied.	R/W	OFF

# **Binary Values**

Instance	Object Name	Description	Read/Write	Default
BV-0	Bad Room Sensor	Alarm for a bad internal thermister	R	OFF
BV-1	H/C Mode	Sequence point to show analog heating or cooling. OFF = Cooling ON = Heat	R	OFF
BV-2	Binary Value 002			
BV-3	Binary Value 003			
BV-4	Binary Value 004			
BV-5	Bad Discharge Sensor	Alarm for a bad discharge air sensor	R	OFF
BV-6	Binary Value 006			
BV-7	Binary Value 007			
BV-8	Binary Value 008			
BV-9	Space Alarm Delay	Delay used to prevent a space alarm after receiving an occupied command. The delay is 7200 sec	R	OFF
BV-10	Program Status	Used to determine if the sequence was loaded correctly on a BACnet Restore or power up.	R	OFF
BV-11	Binary Value 011			
BV-12	Binary Value 012			
BV-13	Binary Value 013			
BV-14	Fan Status	One of the fan speeds is active	R	OFF
BV-15	Lo Fan Request	Request to turn on fan speed 1	R	OFF
BV-16	Med Fan Request	Request to turn on fan speed 2	R	OFF
BV-17	Hi Fan Request	Request to turn on fan speed 3	R	OFF





BV-21     Binary Value 021     Status of the Too Warm Alarm before checking the Space Alarm Delay     R     OFF       BV-22     Too Cool Status     Status of the Too Warm Alarm before checking the Space Alarm Delay     R     OFF       BV-24     Space To Warm Alarm before checking the Space Alarm Delay     R     OFF       BV-24     Space To Warm Alarm before checking the space Alarm Delay     R     OFF       BV-25     Space To Cool Alarm Alarm before checking the space Alarm Offset (AV-82)     R     OFF       BV-26     Heat Stage 1     The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82)     R     OFF       BV-26     Heat Stage 1     Status of stage 1 heating request     R     OFF       BV-27     Heat Stage 2     Status of stage 1 cooling request     R     OFF       BV-28     Cool Stage 1     Status of stage 2 cooling request     R     OFF       BV-29     Status     Status of stage 2 cooling request     R     OFF       BV-30     Fan Speed In     Used to determine if the user has put the thermostat in low fan speed from the keypad.     R     OFF       BV-31     User Fan Speed Lu	D\/ 42	Occ Set point		P	OFF
BV-21     Binary Value 021     Status of the Too Warm Alarm before checking the Space Alarm Delay     R     OFF       BV-22     Too Warm Status     Status of the Too Warm Alarm before checking the Space Alarm Delay     R     OFF       BV-23     Too Cool Status     Status of the Too Warm Alarm before checking the Space Alarm Delay     R     OFF       BV-24     Space To Warm Alarm     The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82)     R     OFF       BV-25     Space To Cool Alarm     The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82)     R     OFF       BV-26     Heat Stage 1     Status of stage 1 heating request     R     OFF       BV-27     Heat Stage 2     Status of stage 1 cooling request     R     OFF       BV-28     Cool Stage 1     Status of stage 2 cooling request     R     OFF       BV-28     Status     Status of stage 2 cooling request     R     OFF       BV-29     Cool Stage 1     Used to determine if the user has put the thermostat in set for fan AUTO     Status     OFF       BV-30     Fan Speed Lo     Used to determine if the user has put the thermostat in mediu					+
BV-21   Binary Value 021   Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82)   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82)   R   OFF     BV-26   Heat Stage 1   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 1   Status of stage 1 heating request   R   OFF     BV-28   Status   Status of stage 1 cooling request   R   OFF     BV-28   Cool Stage 1   Status of stage 2 cooling request   R   OFF     BV-29   Cool Stage 1   Used to determine if the user has put the thermostat in low fan speed from the keypad.   R   OFF     BV-30   Fan Speed IN   Used to determine if the user has put the thermostat in low fan speed from the keypad.   R   OFF	BV-42		thermostat. When ON the thermostat will switch	R/W	OFF
BV-21   Binary Value 021     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-26   Heat Stage 1 Status   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 2 Status   Status of stage 1 cooling request   R   OFF     BV-28   Cool Stage 1 Status   Status of stage 2 cooling request   R   OFF     BV-29   Cool Stage 2 Status   Status of stage 2 cooling request   R   OFF     BV-30   Fan Speed In AUTO   Used to determine if the thermostat is set for fan AUTO   R   OFF     BV-31   User Fan Speed Lo   Used to determine if the user has put the thermostat in Inw fan speed from the keypad.   R   OFF     BV-32   User Fan Speed Li <td>BV-41</td> <td>Opt. Start Warmup</td> <td>thermostat. When ON the thermostat will switch to occupied settings.</td> <td>R/W</td> <td>OFF</td>	BV-41	Opt. Start Warmup	thermostat. When ON the thermostat will switch to occupied settings.	R/W	OFF
BV-21   Binary Value 021     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-26   Heat Stage 1 Status   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 1 Status   Status of stage 1 cooling request   R   OFF     BV-28   Cool Stage 1 Status   Status of stage 2 cooling request   R   OFF     BV-29   Cool Stage 1 Status   Status of stage 2 cooling request   R   OFF     BV-30   Fan Speed in AUTO   Used to determine if the user has put the thermostat in low fan speed from the keypad.   R   OFF     BV-31   User Fan Speed Lo Med   Used to determine if the user has put the thermostat in medium fan speed from the keypad.   R   OFF     BV-3	BV-40	Occupied Status	occupancy settings. ON when the thermostat is in Occupied Setpoint Mode or After Hours Mode.	R	OFF
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) - Space Alarm Offset (AV-82)   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82)   R   OFF     BV-26   Heat Stage 1   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 2   Status of stage 2 heating request   R   OFF     BV-28   Cool Stage 1   Status of stage 2 cooling request   R   OFF     BV-29   Cool Stage 2   Status of stage 2 cooling request   R   OFF     BV-30   Fan Speed In AUTO   Used to determine if the user has put the thermostat in low fan speed from the keypad.   R   OFF     BV-31   User Fan Speed Hi   Used to determine if the user has put the R   O	BV-39	Binary Value 039			
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-26   Heat Stage 1 Status   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 2 Status   Status of stage 1 cooling request   R   OFF     BV-28   Cool Stage 1 Status   Status of stage 2 cooling request   R   OFF     BV-28   Cool Stage 2 Status   Status of stage 2 cooling request   R   OFF     BV-29   Cool Stage 2 Status   Status of stage 2 cooling request   R   OFF     BV-30   Fan Speed Lo   Used to determine if the user has put the thermostat in low fan speed from the keypad.   R <td>BV-38</td> <td></td> <td>Used to pass the discharge air modulation signal or the room temperature modulation signal to the</td> <td>R</td> <td>OFF</td>	BV-38		Used to pass the discharge air modulation signal or the room temperature modulation signal to the	R	OFF
BV-21   Binary Value 021     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82)   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82)   R   OFF     BV-26   Heat Stage 1 Status   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 2 Status   Status of stage 1 heating request   R   OFF     BV-28   Cool Stage 1 Status   Status of stage 1 cooling request   R   OFF     BV-29   Cool Stage 2 Status   Status of stage 2 cooling request   R   OFF     BV-30   Fan Speed in AUTO   Used to determine if the thermostat is set for fan Speed AUTO   R   OFF     BV-31   User Fan Speed Lo   Used to determine if the user has put the thermostat in low fan speed from the keypad.   R   OFF     BV-32   User Fan Speed Hi   Used to determine if the user has pu	BV-37	Cool Fan Interlock	Used in discharge air mode to interlock the analog	R	OFF
BV-21Binary Value 021Status of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-22Too Warm StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-23Too Cool StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-24Space To Warm AlarmThe space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-25Space To Cool AlarmThe space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-26Heat Stage 1 StatusStatus of stage 1 heating requestROFFBV-27Heat Stage 2 StatusStatus of stage 2 heating requestROFFBV-28Cool Stage 1 StatusStatus of stage 2 cooling requestROFFBV-29Cool Stage 2 StatusStatus of stage 2 cooling requestROFFBV-30Fan Speed in AUTOUsed to determine if the thermostat is set for fan speed AUTOROFFBV-32User Fan Speed Lo MedUsed to determine if the user has put the thermostat in low fan speed from the keypad.ROFFBV-33User Fan Speed Hi MedUsed to determine if the user has put the thermostat in medium fan speed from the keypad.ROFFBV-34Binary Value 034OFFOFFOFFOFF	BV-36	Heat Fan Interlock		R	OFF
BV-21Binary Value 021Status of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-22Too Warm StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-23Too Cool StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-24Space To Warm AlarmThe space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-25Space To Cool AlarmThe space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-26Heat Stage 1 StatusStatus of stage 1 heating requestROFFBV-27Heat Stage 2 StatusStatus of stage 1 heating requestROFFBV-28Cool Stage 1 StatusStatus of stage 1 cooling requestROFFBV-29Cool Stage 2 StatusStatus of stage 2 cooling requestROFFBV-30Fan Speed in AUTOUsed to determine if the user has put the thermostat in low fan speed from the keypad.ROFFBV-32User Fan Speed Lo MedUsed to determine if the user has put the thermostat in medium fan speed from the keypad.ROFFBV-33User Fan Speed HiUsed to determine if the user has put the thermostat in medium fan speed from the keypad.ROFFBV-33User Fan Speed HiUsed to determine if the user has put the thermostat in high fan speed from the keypad.ROFF </td <td>BV-35</td> <td>Binary Value 035</td> <td></td> <td></td> <td></td>	BV-35	Binary Value 035			
BV-21   Binary Value 021     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-26   Heat Stage 1 Status   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 2 Status   Status of stage 1 heating request   R   OFF     BV-28   Cool Stage 1 Status   Status of stage 2 cooling request   R   OFF     BV-29   Cool Stage 2 Status   Status of stage 2 cooling request   R   OFF     BV-30   Fan Speed in AUTO   Used to determine if the thermostat is set for fan AUTO   R   ON     BV-31   User Fan Speed Lo   Used to	BV-34	Binary Value 034			
BV-21Binary Value 021Status of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-22Too Warm StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-23Too Cool StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-24Space To Warm AlarmThe space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-25Space To Cool AlarmThe space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-26Heat Stage 1 StatusStatus of stage 1 heating requestROFFBV-27Heat Stage 2 StatusStatus of stage 2 heating requestROFFBV-28Cool Stage 1 StatusStatus of stage 2 cooling requestROFFBV-29Cool Stage 2 StatusStatus of stage 2 cooling requestROFFBV-30Fan Speed in AUTOUsed to determine if the thermostat is set for fan speed AUTOROFFBV-31User Fan Speed LoUsed to determine if the user has put the thermostat in low fan speed from the keypad.ROFFBV-32User Fan SpeedUsed to determine if the user has put the thermostat in low fan speed from the keypad.ROFF	BV-33	User Fan Speed Hi	Used to determine if the user has put the	R	OFF
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-26   Heat Stage 1 Status   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 2 Status   Status of stage 2 heating request   R   OFF     BV-28   Cool Stage 1 Status of stage 1 cooling request   R   OFF     BV-28   Cool Stage 1 Status of stage 2 cooling request   R   OFF     BV-29   Status   Status of stage 2 cooling request   R   OFF     BV-30   Fan Speed in AUTO   Used to determine if the thermostat is set for fan AUTO   R   OFF     BV-31   User Fan Sp	BV-32		Used to determine if the user has put the	R	OFF
BV-21Binary Value 021Status of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-22Too Warm StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-23Too Cool StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-24Space To Warm AlarmThe space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-25Space To Cool AlarmThe space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-26Heat Stage 1 StatusStatus of stage 1 heating requestROFFBV-27Heat Stage 1 StatusStatus of stage 2 heating requestROFFBV-28Cool Stage 1 StatusStatus of stage 1 cooling requestROFFBV-29Cool Stage 2 StatusStatus of stage 2 cooling requestROFFBV-29Cool Stage 2 StatusStatus of stage 2 cooling requestROFFBV-29Fan Speed inUsed to determine if the thermostat is set for fan RROFF	BV-31	User Fan Speed Lo	Used to determine if the user has put the	R	OFF
BV-21Binary Value 021Image: Second sec	BV-30			R	ON
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-26   Heat Stage 1 Status   Status of stage 1 heating request   R   OFF     BV-27   Heat Stage 2 Status   Status of stage 2 heating request   R   OFF     BV-28   Cool Stage 1   Status of stage 1 cooling request   R   OFF	BV-29		Status of stage 2 cooling request	R	OFF
BV-21Binary Value 021Status of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-22Too Warm StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-23Too Cool StatusStatus of the Too Warm Alarm before checking the Space Alarm DelayROFFBV-24Space To Warm AlarmThe space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-25Space To Cool AlarmThe space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.ROFFBV-26Heat Stage 1 StatusStatus of stage 1 heating requestROFFBV-27Heat Stage 2Status of stage 2 heating requestROFF	BV-28	Cool Stage 1	Status of stage 1 cooling request	R	OFF
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-26   Heat Stage 1   Status of stage 1 heating request   R   OFF	BV-27	Heat Stage 2	Status of stage 2 heating request	R	OFF
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82) for at least 7200 seconds.   R   OFF     BV-25   Space To Cool Alarm   The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82)   R   OFF	BV-26			R	OFF
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-24   Space To Warm Alarm   Status of the Space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82)   R   OFF	BV-25		The space temperature has been above the Room Set point (AV-90) + Space Alarm Offset (AV-82)	R	OFF
BV-21   Binary Value 021   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-22   Too Warm Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF     BV-23   Too Cool Status   Status of the Too Warm Alarm before checking the Space Alarm Delay   R   OFF	BV-24	-	The space temperature has been below the Room Set point (AV-90) – Space Alarm Offset (AV-82)	R	OFF
BV-21 Binary Value 021 Status of the Too Warm Alarm before checking B	BV-23	Too Cool Status	Status of the Too Warm Alarm before checking	R	OFF
BV-21 Binary Value 021	BV-22	Too Warm Status	•	R	OFF
BV-20 Binary Value 020	BV-21	Binary Value 021			
	BV-20	Binary Value 020			
BV-18 Binary Value 018   BV-19 Binary Value 019					





BV-50 Binary Value 050	The thermostat has been set to after hours mode. When ON the thermostat will switch to occupied settings. Reserved for thermostat use only. Do not write to this point. When ON descriptor changes are sent to the	R	OFF
BV-46Binary Value 046BV-47Binary Value 047BV-48Binary Value 048BV-49Update DescriptorsBV-50Binary Value 050	Reserved for thermostat use only. Do not write to this point. When ON descriptor changes are sent to the	R	
BV-47Binary Value 047BV-48Binary Value 048BV-49Update DescriptorsBV-50Binary Value 050			
BV-48Binary Value 048BV-49Update DescriptorsBV-50Binary Value 050			
BV-49Update DescriptorsBV-50Binary Value 050			
BV-50 Binary Value 050			
	thermostats LCD, this point will auto reset to OFF.	R/W	OFF
BV-51 BI for Occupancy	· •		
By of Brief Goodparloy	ON = BI-5 will be used to indicate zone occupancy OFF = BI-5 is not used for occupancy	R/W	OFF
BV-52 Binary Value 052			
BV-53 Binary Value 053			
BV-54 Binary Value 054			
BV-55 Binary Value 055			
BV-56 Binary Value 056			
	When ACTIVE, the "EXACTLOGIC" splash will not show after key presses	R/W	OFF
BV-58 Disable Setup Menu	When ACTIVE, there will be no access to the Setup Menu where the Network/MAC/Baud Rate is set	R/W	OFF
BV-59 Disable FSM Menu	When ACTIVE, there will be not access to the Field Service Mode where the Time/Schedule/Point Access is set	R/W	OFF
BV-60 Discharge Air Mode	Used to select if the thermostat will control space to setpoint based off discharge air. ON = Discharge Air Mode OFF = Room Temperature Mode	R/W	OFF
BV-61 2 Stg Ht Output Mode	2 stage heating mode for the digital outputs	R/W	OFF
BV-62 2 Stg Cl Output Mode	2 stage cooling mode for the digital outputs	R/W	OFF
BV-63 1 Stg Ht/Cl Output Mode	1 stage heat and 1 stage cool mode for the digital outputs	R/W	OFF
BV-64 Enable Motion	When ACTIVE, the power to the Motion add-on card is set to the proper voltage	R/W	OFF
BV-65 Binary Value 065			
BV-66 Binary Value 066			
BV-67 Room Temp Select	When OFF, the internal thermistor is selected for the control sequence. When ON, an external thermistor attached to AI-1 is selected for control of the sequence	R/W	OFF
BV-68 Backlight Off/On	When ON the LCD backlight will remain on.	R/W	OFF
BV-69 Binary Value 069			1
BV-70 Room Vacant Status	When ON the thermostat will run on Vacant Heating/Cooling setpoints, AV-64/AV-65.	R/W	OFF
BV-71 C/F	Sets the thermostat to display temperatures in Celsius or Fahrenheit. This point is set through the setup menu. ON = F, OFF = C	R	ON
BV-72 Binary Value 072			





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BV-73	Binary Value 073			
BV-74	Hotel Mode	This point is reserved for internal thermostat use and its value cannot be changed	R	OFF
BV-100	Binary Value 100	Enable internal thermistor descriptor	R/W	ON
BV-101	Binary Value 101	Enable descriptor	R/W	OFF
BV-102	Binary Value 102	Enable descriptor	R/W	OFF
BV-103	Binary Value 103	Enable descriptor	R/W	OFF
BV-104	Binary Value 104	Enable descriptor	R/W	OFF
BV-105	Binary Value 105	Enable descriptor	R/W	OFF
BV-106	Binary Value 106	Enable descriptor	R/W	OFF
BV-107	Binary Value 107	Enable descriptor	R/W	OFF
BV-108	Binary Value 108	Enable descriptor	R/W	OFF
BV-109	Binary Value 109	Enable descriptor	R/W	OFF
BV-110	Binary Value 110	Enable descriptor	R/W	OFF
BV-111	Binary Value 111	Enable descriptor	R/W	OFF
BV-112	Binary Value 112	Enable outside air descriptor	R/W	OFF

