

ExactLogic BACnet Communicating Pressure Independent VAV Box Control EXL01822 Sequence Datasheet



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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 zone damper keypad will time out after 5 seconds without a key press, and the display will switch back to displaying the room temperature.

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

The occupancy of the thermostat is controlled by BO-5. When active the thermostat will maintain its occupied setpoint. The deadband is controlled by the cooling/heating offset (default 1 degree). The desired CFM setpoint is controlled by the heating or cooling signals. There are separate Min/Max daNickmper position for heating and cooling at AV-36 to AV-39. This allows for different amounts of airflow depending on the heating/cooling mode. The damper can also be forced closed (BV-13), forced open (BV-12), or forced to a manual position (BV-11) set at AV-40. The Damper tristate/floating outputs are BO-3/4 and the modulating damper output is at AO-0.

Heating and cooling are enabled based off the Warm Air In Duct Status (BV-8). The enable setpoint at AV-52 is used to trigger the Warm Air in Duct status. If the supply air temperature is above this setpoint the Warm Air in Duct will be enabled. This is will allow heating to be enabled and cooling disabled. Likewise, when the Warm Air in Duct status is off heating will be disabled and cooling will be enabled.

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 zone damper 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 zone will be controlled by the unoccupied cooling/heating setpoints. The cooling/heating will operate the same as the occupied control sequence.

Vacancy

If a room is known to be vacant, vacant setpoints can be used to override the unoccupied setpoints. By setting BV-70, a room will be controlled by the vacant cooling/heating setpoints (AV-64/65).

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 zone damper 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 zone damper 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 zone damper keypad will time out after 5 seconds without a key press, and the display will switch back to displaying the room temperature.

The zone damper can be set to night override by writing a value to AV-74 though BACnet. The value cannot 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 to the limit. The night override limit default is 5 hours.

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

Vacancy

If a room is known to be vacant, vacant setpoints can be used to override the unoccupied setpoints. By setting BV-70 to active, a room will be controlled by the vacant cooling/heating setpoints (AV-64/65).

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.

When the motion sensor, senses motion, it puts the unit in occupied "Active" Mode by writing to the Scheduled Occupied Command BO-5 at priority array entry 11, this will remain active until it does not see any motion for the entire duration of the time delay (AV-81 Units=seconds), it will then return to an inactive state.

When the internal occupancy sensor is enabled by setting BV-64 to ACTIVE, the occupied mode is controlled only by the occupancy sensor. The optimum start warmup point, BV-41, and optimum start cooldown point, BV-42, will set the unit to the occupied mode and then return to the unoccupied mode until motion is sensed.

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

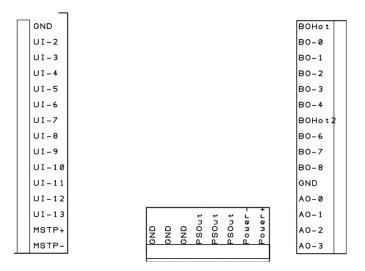
When the thermostat is installed in a public location there may be times when the setup of the thermostat will need to be disabled to prevent tenants from changing the configuration while still giving them access to change the setpoints and control after hours modes. The following points have been added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



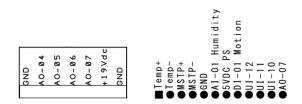


Fig. 4

*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/Ground UI-2 Universal Input 2 UI-3 Universal Input 3 UI-4 Universal Input 4 UI-5 Universal Input 5 UI-6 Universal Input 5 UI-7 Universal Input 7 UI-8 Universal Input 7 UI-8 Universal Input 7 UI-9 Universal Input 9 UI-10 Universal Input 9 UI-10 Universal Input 10 UI-11 Universal Input 10 UI-13 Universal Input 12 UI-13 Universal Input 13 MSTP + Network Line Positive MSTP Network Line Negative
BO Hot24VAC/DC Input for Relays 1-5*BO-0Relay 1 Output, 24VAC/DCBO-1Relay 2 Output, 24VAC/DCBO-2Relay 3 Output, 24VAC/DCBO-3Relay 4 Output, 24VAC/DCBO-4Relay 5 Output, 24VAC/DCBO Hot 224VAC/DC Input for Relays 7-9*BO-6Relay 7 Output, 24VAC/DCBO-7Relay 8 Output, 24VAC/DCBO-7Relay 9 Output, 24VAC/DCBO-8Relay 9 Output, 24VAC/DCBO-8Relay 9 Output, 24VAC/DCAO-0Analog Output 0, 0-10VAO-1Analog Output 1, 0-10VAO-3Analog Output 3, 0-10V
GND Neutral/Ground GND Neutral/Ground GND Neutral/Ground PSOut
GND Neutral/Ground AO-04 Analog Output 4, 0-10V AO-05 Analog Output 5, 0-10V AO-06 Analog Output 6, 0-10V AO-07 Analog Output 7, 0-10V +19Vdc 19V DC GND Neutral/Ground





Output Wiring

Output/Label	Function
BO0	Fan
BO1	
BO2	
BO3	Damper Open
BO4	Damper Close
AO0	Damper Signal
AO1	Reheat

Input Wiring

Output/Label	Function
IN0	Internal Room Temperature
IN1	Motion/Humidity
IN2	External Room Temperature
IN3	Duct DP Sensor / Velocity
IN4	Discharge Air Temp
IN5	External Occupancy Relay

Reserved BACnet Points

The following are points reserved by the zone damper 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	Duct Pressure	Reading external differential pressure flow sensor	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	Damper Command	0-10V output for damper	R/W	0.0
AO-1	Analog Output 01	0-10V output	R/W	0.0
AO-2	Analog Output 02	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 zone damper 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 zone damper 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 zone damper 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-90 (Current SP) – AV-94 (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-90 (Current SP) + AV-93 (Cooling Offset)	R	74.0°F/23.5°C
AV-8	Heating Signal	Heating signal status before being scaled	R	0%
AV-9	Cooling Signal	Cooling signal status before being scaled	R	0%
AV-10	Analog Value 010			
AV-11	Damper Command	Requested damper position	R	0%
AV-12	Desired CFM	The current CFM set point	R	0 CFM
AV-13	Current CFM	The current calibrated CFM	R	Varies
AV-14	Damper Position	Current powered open powered closed damper position	R	50%
AV-15	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-16	Analog Value 016			
AV-17	Analog Value 017			
AV-18	Analog Value 018			
AV-19	Analog Value 019			
AV-20	Room Temp	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 display the temperature on any workstation display.		
AV-21	RTU Supply Temp	Network written discharge temperature from the RTU	R/W	Varies
AV-22	Analog Value 022			
AV-23	Analog Value 023			
AV-24	Analog Value 024			
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





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AV-28	Deviation from SP	The difference in the zone temperature from setpoint, determined by whether the zone is heating or cooling	R	Varies
		Numerical representation to tell the mode the zone is		
AV-29	Zone Scan	in. Used for workstation graphics (100 = Full Heat, -100 = Full Cool	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/W	1
AV-31	AI-1 Setup	See AV-30	R/W	0
AV-32	AI-2 Setup	See AV-30	R/W	0
AV-33	AI-3 Setup	See AV-30	R/W	0
AV-34	AI-4 Setup	See AV-30	R/W	0
AV-35	AI-5 Setup	See AV-30	R/W	0
AV-36	Heating Minimum CFM Set Point	Minimum CFM in the heating mode	R/W	0 CFM
AV-37	Heating Maximum CFM Set Point	Maximum CFM in the heating mode	R/W	50 CFM
AV-38	Cooling Minimum CFM Set Point	Minimum CFM in the cooling mode	R/W	0 CFM
AV-39	Cooling Maximum CFM Set Point	Maximum CFM in the cooling mode	R/W	100 CFM
AV-40	Manual CFM Set Point	The CFM set point commanded to when BV-11 is ON.	R/W	40 CFM
AV-41	High DAT SP	The DAT Setpoint when heating signal is 100%	R/W	80°F
AV-42	Analog Value 041			
AV-43	Duct Size In Square Feet	Duct Size to determine velocity	R/W	4 SF
AV-44	Analog Damper Minimum	The minimum position that the damper control on AO-0 can move to.	R/W	0%
AV-45	Analog Damper Maximum	The maximum position that the damper control on AO-0 can move to.	R/W	100%
AV-46	CFM Ki control	PI CFM Reaction time.	R/W	1
AV-47	Analog Value 047			
AV-48	Analog Value 048			
AV-49	Analog Value 049			
AV-50	Analog Value 050			
AV-51	Damper Motor Time	The amount of time to open the damper from 0% open to 100% open	R/W	90 sec
AV-52	Warm Air in Duct SP	Setpoint that the RTU discharge air temperature must exceed to enable BV-8	R/W	75°F
AV-53	Analog Value 053			
AV-54	Analog Value 054			
AV-55	Analog Value 055			
AV-56	Analog Value 056			
AV -57	Analog Value 057			
AV-58	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	1.6



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		Factor used to average the room temperature. A		
AV-59	Avg. Time Base	small number will allow the room temperature to	R	100
AV 55	Avg. Time base	change faster over time. A large number will cause	IX IX	100
		the room temperature to change slower over time.	_	
AV-60	Calibration Offset	The calibration offset for the internal thermistor.	R	variable
		This offset +/- the Current Cooling/Heating SP is		
AV-61	Space Alarm Offset	used to determine if the space is too warm/cold, and	R/W	5.0°F
		set an alarm if necessary.		
		Select the number of fan speeds for a multispeed		
		fan.		
AV (00		0 = Auto Only		<u> </u>
AV-62	# of Fan Speeds	1 = AUTO - ON	R/W	0
		2 = Off - AUTO - ON		
		3 = Off-1-2-AUTO		
		4 = Off-1-2-3-AUTO		
		The fan speed the thermostat is currently running. 0 = OFF		
		1 = Fan Speed 1		
		2 = Fan Speed 2		
AV-63	Current Fan Speed	3 = Fan Speed 2	R	4
		4 = AUTO		
		5 = ON		
		Used in Hotel Mode. When a room is known vacant,		
AV-64	Vacant Clg SP	the setpoint can be set below the unoccupied	R/W	85.0°F
-		setpoint.	-	
		Used in Hotel Mode. When a room is known vacant,		
AV-65	Vacant Htg SP	the setpoint can be set below the unoccupied	R/W	55.0°F
		setpoint.		
AV-66	Room Setpoint	The occupied room setpoint	R/W	73.0°F
AV-67	Occupied SP Hi	The maximum occupied room setpoint allowed.	R/W	85.0°F
/ 0/	Limit		10,00	00.01
AV-68	Occupied SP Lo	The minimum occupied room setpoint allowed	R/W	55.0°F
	Limit	· · ·		
AV-69	Clg Offset	The offset from Room Setpoint used to calculate the	R/W	1.0°F
		Occupied Cooling SP		
AV-70	Htg Offset	The offset from Room Setpoint used to calculate the	R/W	1.0°F
	<u> </u>	Occupied Heating SP		
AV-71	Unoccupied Clg SP	The cooling setpoint used when the thermostat is	R/W	80.0°F
		unoccupied.		
AV-72	Unoccupied Htg SP	The heating setpoint used when the thermostat is unoccupied.	R/W	60.0°F
		The maximum hours the thermostat is allowed to run		
AV-73	After Hours Limit	during afterhours time. Setting this will set the	R/W	5.0 hrs
AV-73		thermostat to occupied operation. (0-99.9 hrs)		5.0 113
AV-74	After Hours Timer	The current amount of afterhours time left.	R	0.0 hrs
		This point is reserved for internal thermostat use and		
AV-75	Reserved	its value cannot be changed	R	0
A) / = 0		This point is reserved for internal thermostat use and		
AV-76	Reserved	its value cannot be changed	R	0
A \ /	Description	This point is reserved for internal thermostat use and		<u> </u>
AV-77	Reserved	its value cannot be changed	R	0
AV 70	December -	This point is reserved for internal thermostat use and		<u>^</u>
AV-78	Reserved	its value cannot be changed	R	0
	I	no value ballitet be bildinged		1





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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	Binary Output 00	Digital output	R/W	OFF
BO-1	Binary Output 01	Digital output	R/W	OFF
BO-2	Binary Output 02	Digital output	R/W	OFF
BO-3	Damper Open	Digital output to open the zone damper	R/W	OFF
BO-4	Damper Close	Digital output to close the zone damper	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 thermistor	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	Binary Value 005			
BV-6	Binary Value 006			
BV-7	Binary Value 007			
BV-8	Warm Air in Duct	Indicates that the VAV is being supplied with warm air. Allows heating and locks out cooling.	R	OFF
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	Force Manual CFM Set Point	Force CFM to valve set at AV-40	R/W	OFF
BV-12	Force Damper Open	Force damper command to 100%	R/W	OFF
BV-13	Force Damper Closed Status	Will be ON When damper is forced Closed (by BV-50 or BV-66)	R	OFF
BV-14	Binary Value 014			
BV-15	Binary Value 015			
BV-16	Binary Value 016			



BV-17	Binary Value 017			
BV-18	Binary Value 018			
BV-19	Binary Value 019			
BV-20	Binary Value 020			
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	Binary Value 026			
BV-27	Binary Value 027			
BV-28	Binary Value 028			
BV-29	Heating Enable	Point will be active when all applies (Fan Cmd = Active & (100cfm or 80% of max) & BV-38=inactive)	R	variable
BV-30	Binary Value 030			
BV-31	Binary Value 031			
BV-32	Binary Value 032			
BV-33	Binary Value 033			
BV-34	Binary Value 034			
BV-35	Binary Value 035			
BV-36	Binary Value 036			
BV-37	Binary Value 037			
BV-38	Heating Lockout	Heating is disabled	R/W	OFF
BV-39	Cooling Lockout	Cooling is disabled	R/W	OFF
BV-40	Occupied Status	The status of this point switches the zone dampers occupancy settings. ON when the zone damper is in Occupied Setpoint Mode or After Hours Mode.	R	OFF
BV-41	Opt. Start Warmup	A Warmup command has been sent to the zone damper. When ON the zone damper will switch to occupied settings.	R/W	OFF
BV-42	Opt. Start Cooldown	A Cooldown command has been sent to the zone damper. When ON the zone damper will switch to occupied settings.	R/W	OFF
BV-43	Occ Set point Mode	The zone damper has been commanded occupied via BO-5, or a Warmup/Cooldown command has been sent via BV-41/BV-42.	R	OFF
BV-44	After Hours Status	The zone damper has been set to after hours mode. When ON the zone damper will switch to occupied settings.	R	OFF
BV-45	Reserved	This point is reserved for internal zone damper use and its value cannot be changed	R	OFF
BV-46	Binary Value 046			1
BV-47	Binary Value 047			
BV-48	Binary Value 048			1
BV-49	Update Descriptors	When ON descriptor changes are sent to the thermostats LCD, this point will auto reset to OFF.	R/W	OFF



BV-50	Force Damper Closed	When active damper will shut	R/W	OFF
BV-51	BI for Occupancy	ON = BI-5 will be used to for occupancy OFF = BI-5 is not used for occupancy	R/W	OFF
BV-52	Force Clg Max	When Active CFM setpoint will be equal to the Cooling Max SP	R/W	OFF
BV-53	Force Clg Min	When Active CFM setpoint will be equal to the Cooling min SP	R/W	OFF
BV-54	Force Htg Max	When Active CFM setpoint will be equal to the Heating Max SP	R/W	OFF
BV-55	Force Htg Min	When Active CFM setpoint will be equal to the Heating min SP	R/W	OFF
BV-56	Binary Value 056			
BV-57	Disable Splash	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	Binary Value 060			
BV-61	Binary Value 061			
BV-62	Binary Value 062			
BV-63	Binary Value 063			
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	Disable Unit	Used by user to override all output off	R/W	OFF
BV-67	Room Temp Select	When OFF, the internal thermistor is selected for the control sequence. When ON, an external thermistor attached to AI-2 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	.	-	_
	Room Vacant	When ON the thermostat will run on Vacant	D AA4	055
BV-70	Status	Heating/Cooling setpoints, AV-64/AV-65.	R/W	OFF
BV-71	C/F	Sets the zone damper 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			
BV-73	Binary Value 073			
BV-74	Hotel Mode	This point is reserved for internal zone damper 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-10	09 Binary Value 109	Enable descriptor	R/W	OFF		
BV-17	10 Binary Value 110	Enable descriptor	R/W	OFF		
BV-17	11 Binary Value 111	Enable descriptor	R/W	OFF		
BV-17	12 Binary Value 112	Enable outside air descriptor	R/W	OFF		

