

ExactLogic BACnet Communicating Thermostat EXL01645 Sequence Datasheet

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DataSheet Rev 1.12.309/4.1 June 14, 2018





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. The table below will illustrate what values of AV-62 and AV-63 correspond to the fan speed a desired fan speed selection.

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		

Internal/External Thermistor Control

The thermostat control sequence can use the internal thermistor, an external thermistor connected to AI-2, or an external network temperature written to AV-10. Setting BV-67 to OFF (default) the thermostat will use the internal thermistor. Setting BV-67 to ON the control sequence will use an external thermistor, either on AI-2 or AV-10. Setting BV-56 to OFF (default) will select the external temperature on AI-2. Setting BV-56 to ON will select the network temperature written to AV-10.

Also by setting BV-56 to ON, the thermostat can also be controlled by the lower temperature read from the internal thermistor or the external temperature selected by BV-56. Setting BV-55 to OFF (default), the thermostat will use the temperature selected by BV-67 for sequence control.

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 – Occupied Digital Heating

When in the occupied mode, the thermostat will maintain a 55°F setpoint (hardcoded). Stage 1 heating will engage when the room temperature drops to 1° below (54°F) the heating setpoint, and will reset off when the room temperature rises to 0.5°F above the heating setpoint. Stage 2 heating will engage if the stage one command has been on for the time delay set at AV-36 and the room temperature is 7° (48°F) below the heating setpoint. Stage 2 will reset off when the room temperature has risen to 2° (53°F) below the heating setpoint.





Control Sequence – Unoccupied Digital Heating

When in the unoccupied mode, stage 1 heating will engage when the room temperature reaches the unoccupied heating setpoint of 40°F (hardcoded), and will reset off when the room temperature reaches 55°F. Stage 2 heating will engage if the stage one command has been on for the time delay set at AV-36 and the room temperature is 5° below (35°F) the unoccupied heating setpoint. Stage 2 will reset off when the room temperature has risen to 10° above (50°F) the unoccupied heating setpoint.

Control Sequence – Modulating Heating

The analog output can be used to maintain a 55°F setpoint (hardcoded) as well. The modulating signal uses the difference between 55° and the room setpoint for its control signal. The control signal is sent to the output when the Stage 1 Heating Request (BV-25) is triggered. This will allow the occupied or unoccupied heating setpoint to command the analog outputs at the correct room temperature. The output voltage levels can be adjusted at AV-40 to 43, allowing for 0-10 or 2-10/10-0 or 10-2 output settings.

Fan Control

This thermostat has only one fan speed. This leaves mode 0 and 1 (AV-62) the only applicable fan speeds for this application. When the fan speed is in AUTO, the thermostat will turn on the fan based on the Stage 1 Heating Request (BV-25). The fan will also start with a Fan Operating Mode set to Continuous, via BV-69.

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 the occupancy is in the unoccupied condition, the room will be controlled by the unoccupied heating setpoint. The fan and heating stage will operate the same as the occupied control sequence.



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Night Overrride

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 increase by the keypad 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 reenter unoccupied mode.

Once the thermostat has entered 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 into a night override by writing a value to AV-74 from a Workstation. 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 the limit. The night override limit default is 5 hours.

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

Control Sequence

When the thermostat is in the override mode, the room will be controlled by the occupied heating setpoint. The fan and heating stage 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 Setup



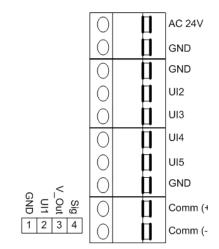


Fig.	1
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*Note: BO Hot usually 24VAC/DC input for Relays or R

Output Wiring

Output	Function
BO0	Fan
BO1	Stage 1 Heating Command
BO2	Stage 2 Heating Command
BO3	
BO4	
AO0	Heating 0-10 Vdc 0-100%
AO1	Heating 10-0 Vdc 0-100%

Input Wiring

Output	Function
UI2	External Space Temp
UI3	
UI4	
UI5	

AC 24V	24VAC/DC Hot
	Neutral/Ground
	Neutral/Ground
	Universal Input 2
	Universal Input 3
	Universal Input 4
	Universal Input 5
	Network Negative Line
	24VAC/DC Input for Relays*
	Relay 5 Output, 24VAC/DC
	Relay 4 Output, 24VAC/DC
	Relay 3 Output, 24VAC/DC
	Relay 2 Output, 24VAC/DC
	Relay 1 Output, 24VAC/DC
	Analog Output 1, 0-10V
AO0	Analog Output 0, 0-10V
4	Neutrol/Oreund
	Neutral/Ground
2	Universal Input 1

1	Neutral/Ground
2	Universal Input 1
	Analog Output 2
4	Reserved



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Reserved BACnet Points

The following are points reserved by the thermostat for operation.

Analog Inputs

Instance	Object Name	Description	Read/Write	Default
AI-0	Internal Thermister	Reading of the internal thermister 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	Analog Input 03	Reading of the external input 3 in counts. 0-1024	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 (0- 100%)	0-10V output for control of heating	R/W	0.0
AO-1	Heat 10-0V (0- 100%)	10-0V output for control of heating	R/W	10.0
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	80.0 [°] F
AV-5	Reserved	This point is reserved for internal thermostat use and its value cannot be changed		
AV-6	Heating SP	The setpoint used for heating during occupied time. This is hardcoded and cannot change	R	55.0 [°] F
AV-7	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-8	Heat Signal	Current heating signal as a percent	R	0%





AV-9	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	0
AV-10	Network Temperature	Temperature used for control that is written from a different network device	R/W	0 [°] F
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	Analog Value 018			
AV-19	Room Temp Hi	The higher temperature, network or internal thermistor	R	varies
AV-20	Room Temp	Selected from either AI-2 or AI-0. 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.	R	varies
AV-21	Analog Value 021			
AV-22	Analog Value 022			
AV-23	Analog Value 023			
AV-24	Analog Value 024			
AV-25	Analog Value 025			
AV-26	Analog Value 026			
AV-27	Analog Value 027			
AV-28	Analog Value 028			
AV-29	Analog Value 029			
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	Stage 2 Start Delay	Time delay between stage 1 and stage 2 heat commands	R/W	300 sec
AV-37	Analog Value 037			
AV-38	Analog Value 038			
AV-39	Analog Value 039			
AV-40	AO-0 Max Voltage	Maximum voltage outputted on AO-0	R/W	100%
AV-41	AO-0 Min Voltage	Minimum voltage outputted on AO-0	R/W	0%
AV-42	AO-1 Max Voltage	Maximum voltage outputted on AO-1	R/W	100%
AV-43	AO-1 Min Voltage	Minimum voltage outputted on AO-1	R/W	0%
AV-44	Analog Value 044			
AV-45	Analog Value 045			
AV-46				





AV-47	Analog Value 047			
AV-48	Analog Value 048			
AV-49	Analog Value 049			
AV-50	Heating Kp	Proportional Constant for the heating PI calculation	R/W	12
AV-51	Heating Ki	Integral Constant for the heating PI calculation	R/W	1
AV-52	Analog Value 052			
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
AV-59	Pseudo 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	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	5.0/2.5
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 unoccupied setpoint.	R/W	55.0 [°] F
AV-66	Room Setpoint	The occupied room setpoint.	R	55.0 [°] F
AV-67	Occupied Sp Hi Limit	The maximum occupied room setpoint allowed.	R	55.0 [°] F
AV-68	Occupied Sp Lo Limit	The minimum occupied room setpoint allowed	R	55.0°F/13.0°C
AV-69	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	1.0/0.5
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	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	80.0/27.0
AV-72	Unoccupied Htg	The heating setpoint used when the thermostat is	R	40.0 [°] F





	SP	unoccupied.		
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	R/W	





		the present value. The AV description holds the descriptor to display	
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	Binary Input 05		R	

Binary Outputs

Instance	Object Name	Description	Read/Write	Default
BO-0	Fan	Output for Fan Control	R/W	OFF
BO-1	Stage 1 Heating Command	Output for stage 1 heat	R/W	ON
BO-2	Stage 2 Heating Command	Output for stage 2 heat	R/W	OFF
BO-3	Binary Output 3		R/W	OFF
BO-4	Binary Output 4		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 Sensor Alarm	Alarm for a bad internal thermistor	R	OFF
BV-1	Binary Value 001			
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	Binary Value 008			
BV-9	Binary Value 009			
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	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	Binary Value 022			
BV-23	Binary Value 023			
BV-24	Binary Value 024			
BV-25	Stage 1 Request	The room temperature has dropped below the stage 1 setpoints, stage 1 heat will be commanded ON	R	OFF
BV-26	Stage 2 Request	The room temperature has dropped below the stage 2 setpoints, stage 2 heat will be commanded ON	R	OFF
BV-27	Stage 2 Enabled	The Stage 2 Start Delay (AV-36) has expired allowing a stage 2 heat request to command the output	R	OFF
BV-28	Binary Value 028			
BV-29	Binary Value 029			
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	Binary Value 038			
BV-39	Binary Value 039			



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BV-40	Occupied Status	The status of this point switches the thermostats occupancy settings. ON when the thermostat is in Occupied Setpoint Mode or After Hours Mode.	R	OFF
BV-41	Opt. Start Warmup	A Warmup command has been sent to the thermostat. When ON the thermostat will switch to occupied settings.	R/W	OFF
BV-42	Opt. Start Cooldown	A Cooldown command has been sent to the thermostat. When ON the thermostat will switch to occupied settings.	R/W	OFF
BV-43	Occ Set point Mode	The thermostat 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 thermostat has been set to afterhours mode. When ON the thermostat will switch to occupied settings.	R	OFF
BV-45	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	OFF
BV-46	Binary Value 046			
BV-47	Binary Value 047			
BV-48	Binary Value 048			
BV-49	Update Descriptors	When ON any descriptor change will be sent the thermostats LCD, this point will auto reset to OFF.	R/W	OFF
BV-50				
BV-51				
BV-52				
BV-53				
BV-54				
BV-55	Temperature Control Mode	OFF = Use the temperature selected by BV-67 for control ON = Use the lower temperature of the internal thermistor on AI-0 or the external temperature selected by BV-56 for control	R/W	OFF
BV-56	Ext Temp Local/Remote	OFF = External Temperature is from AI-2 ON = External Temperature is from AV-10	R/W	OFF
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	When ON this point will disable and lockout all analog and binary outputs.	R/W	OFF





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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	Fan Op Mode	Controls if the fan will cycle or run continuously. OFF = Cycle, ON = Continuous, BV-40 must also be ON.	R/W	OFF
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			
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-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

