

ExactLogic BACnet Communicating Thermostat EXL01818 Sequence Datasheet

AC or HP with Dehumidify and Reheat



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Operating Sequence

Standard Occupied

During normal occupied operation the display will show the current room temperature. The first press of the temperature keys on the right will show the current room setpoint. Additional presses will adjust the setpoint up or down by 0.5 (adjustable with AV-82) degrees. The thermostat keypad will time out after 10 seconds without a key press, and the display will switch back to displaying the room temperature.

The fan keys on the left adjust the fan speed. The current mode is shown with the first key press; additional key presses will adjust 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 Setting) and AV-63 (Fan Speed Status).

Note: When Fan Speed is set to Off (0) BO-0 to BO-4 will be overridden off until another speed is chosen.

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 uses an 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 or Compressor / Reversing

The occupancy of the thermostat can be controlled by a schedule command at BO-5. When scheduled to be occupied, the thermostat will maintain its occupied setpoint. The deadband is controlled by the cooling/heating offset (default 1 degree) at AV-69 and AV-70.

Heat / Cool or Compressor Reversing mode is selected by using BV-72 and BV-73. Set BV-72 ON for Heat / Cool mode or OFF for Compressor / Reversing mode. When Compressor / Reversing mode is selected setting BV-73 ON will power the Reversing Valve for Cooling and setting BV-73 OFF will power the Reversing Valve for Heating.

In cooling mode, the sequence will engage the 1st-stage compressor when the zone to 0.5 degrees over the cooling setpoint. If 2-stages are selected the 2nd stage will engage when 1.2 degrees over setpoint. Stage 2 cooling will disengage when the zone temperature is 0.5 degrees above the cooling setpoint or when the DAT is below a user defined setpoint. Stage 1 cooling will disengage when the zone temperature is 0.2 degrees below the cooling setpoint.

An alarm at BV-31 will trigger if the discharge air temperature does not fall below a user defined setpoint for stage 1 and stage 2. The alarms will indicate that the compressor(s) are not cooling properly.

In heating mode, the sequence will engage the heating output when the zone to 0.5 degrees below the heating setpoint. Heating will disengage when the zone temperature is 0.2 degrees above the heating setpoint.





Control Sequence – Heat / Cool or Compressor / Reversing (continued)

An alarm will trigger at BV-30 if the discharge air temperature does not rise above a user defined setpoint for heating. The alarms will indicate that the heat pump is not heating properly.

Control Sequence – Dehumidify

The Humidity signal is provided with the internal humidity option at AI-1 and AV-22.

The Dehumidifier Request (BV-15) is commanded ON or OFF by the Space Humidity (AV-22), Dehumidify SP (AV-46), Dehumidify Trigger SP (AV-42), and Dehumidify Reset SP (AV-43). See the point descriptions for more details. When the Space Humidity (AV-22) rises above the Dehumidify SP (AV-46) plus the Trigger Deadband SP (AV-42), the dehumidification sequence is enabled. When dehumidification is enabled cooling stage 1 is commanded on. When 2nd stage cooling with dehumidify (BV-54) is enabled and the return air sensor is above the dehumidification RA SP (AV-47) the unit will command both stage 1 and 2 on during dehumidify. When the Dehumidifier Request (BV-15) is enabled and the space temperature is below the current cooling setpoint, the Reheat Valve (BO-4) will open and output AO-1 will modulate to reheat the supply air from the low setpoint (AV-77) to the high setpoint (AV-76) to achieve the cooling space setpoint.

Standard Unoccupied

During unoccupied operation the thermostat will continue to display the room temperature. When in an unoccupied state pressing the temperature keys on the right 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.

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

Night override is set by pressing the fan keys on the left. 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 (maximum of 99 hours), the default is 5 hours. When the thermostat is in night override, the first press of the fan keys on the left will display the override time remaining. Additional key presses will add/subtract 0.5 hours to the remaining time. When the timer reaches zero the thermostat will return to the unoccupied mode.

In the night override mode, the temperature keys on the right will adjust the room setpoint. The thermostat keypad will time out after 10 seconds without a key press, and the display will switch back to the room temperature.

The night override can be set at AV-74 through 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, maximum is 99 hours.





Night Override (continued)

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.

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 Al-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

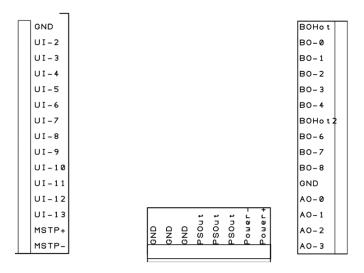
BV-58 = Setting ACTIVE will disable access to the Setup Menu where the Network/MAC/Baud Rate/etc are set

BV-59 = Setting ACTIVE will disable access to the Field Service Mode where Time/Schedule/Setpoints/etc are set





Installation



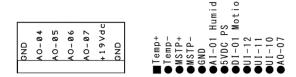


Fig. 4

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

*Note: Al-2 through Al-5 and Bl-2 through Bl-5 are wired to Ul-2 through Ul-5. Each universal Input can only be used as an Al or a Bl

GND	Neutral/Ground
UI-2	
UI-3	
UI-4	
UI-5	
UI-6	
UI-7	
UI-8	
UI-9	
UI-10	
UI-11	
UI-12	
UI-13	
MSTP + Net	
MSTPNetv	work Line Negative
BO Hot 24VAC/DC In	nut for Relays 1-5*
BO-0 Relay 1 (Output 24\/AC/DC
BO-1 Relay 2 (Output 24\/AC/DC
BO-2 Relay 3 (
BO-3 Relay 4 (
BO-4 Relay 5 (
BO Hot 2 24VAC/DC In	
BO-6Relay 7 (
BO-7 Relay 8 (
BO-8Relay 9 (Output 24VAC/DC
GNDRelay 9 C	Noutral/Ground
AO-0 Analo	
AO-1Anald	og Output 1, 0-10V
AO-2Analo	og Output 2, 0-10V
AO-3 Analo	og Output 3, 0-10v
GND	Neutral/Ground
GND	
GND	
PSOut	
PSOut	
PSOut	
Power	
Power +	24VAC/DC Hot
GND	
AO-04Analo	
AO-05 Analo	
AO-06 Analo	
AO-07 Analo	
+19Vdc	19V DC
GND	Neutral/Ground





Output Wiring

Output/Label Heat / Cool Mode Compressor / Reversing		Compressor / Reversing Mode
BO0	Fan	Fan
BO1	Cooling Stage 1	Compressor 1
BO2	Cooling Stage 2	Compressor 2
BO3	Heating Stage 1	Reversing Valve
BO4	Reheat Valve	Reheat Valve
AO0	Aux Heat (100 or 10Vdc = On)	Aux Heat (100 or 10Vdc = On)
AO1	Dehumidification Modulation	Dehumidification Modulation

Input Wiring

Input/Label	Description
UI0	Internal Room Temperature
UI1	Internal Humidity
UI2	External Room Temperature
UI3	Discharge Air Temperature
UI4	Return Air Temperature
UI5	Core Water Temperature

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
Al-1	Int. Humidity	Reading from the internal humidity sensor add-on card	R	variable
Al-2	Ext. Room Temp	Optional external room temperature input	R	variable
AI-3	Discharge Air	Reading of the discharge air sensor	R	variable
Al-4	Return Air	Reading of the return air sensor	R	variable
AI-5	Core Water	Reading of the core water sensor	R	variable

Analog Outputs

Instance	Object Name	Description	Read/Write	Default
AO-0	Analog Output 0	0-10V output	R/W	0.0
AO-1	Analog Output 1	0-10V output	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
	-	The mode that the thermostat is currently in. 0 = Heat Mode 1 = Cool Mode		
A) / O		2 = Idle		.,
AV-0	Mode of Operation	3 = Afterhours	R	Variable
		4 = Unoccupied Idle		
		5 = Unoccupied Heat Mode		
		6 = Unoccupied Cool Mode		
AV-1	Dehu DAT SP	Dehumidification Discharge Air Setpoint	R	Variable
AV-2				
AV-3				
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	Current Clg SP	The setpoint that controls cooling. If the room temperature goes above this setpoint the thermostat will enter cooling mode.	R	60.0 °F
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
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
AV-8	Heating Signal	Current heating signal as a percent	R	0%
AV-9	Cooling Signal	Current cooling signal as a percent	R	0%
AV-10	Flush Cycle Time Status	Amount of runtime that the condenser/water valve has completed for the current cycle	R	0
AV-11	Flush Cycle Setpoint	Current Cycle Time Limit. Once the runtime reaches this setpoint a flush command is issued	R	0
AV-12				
AV-13				
AV-14				
AV-15				
AV-16				
AV-17				
AV-18				
AV-19		Colored from aith or ALO == ALO DV C7 :=		
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.	R	variable
AV-21	Discharge Air Temp	Temperature read on AI-3. This is the value displayed on the LCD of the thermostat and should be used to display the discharge air on any workstation display.	R	variable





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AV-22	Room Humidity	This is from the internal humidity sensor (optional) this value is displayed on the LCD of the thermostat and should be used to display the humidity on any workstation display.	R	variable
AV-23	Heating Attained Temp	The discharge air temperature attained when cooling for proof of operation.	R	variable
AV-24	Cooling Attained Temp	The discharge air temperature attained when heating used for proof of operation.	R	variable
AV-25	Analog Value 025			
	Cooling Deviation	Number of degrees that the room temperature is away from the cooling setpoint	R	variable
AV-27	Heating Deviation	Number of degrees that the room temperature is away from the heating setpoint	R	variable
AV-28	Deviation from SP	Number of degrees that the room temperature is away from the room setpoint	R	variable
AV-29	Zone Scan	Numerical representation of the thermostats mode. 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	Al-1 Setup	See AV-30	R/W	0
AV-32	Al-2 Setup	See AV-30	R/W	1
AV-33	Al-3 Setup	See AV-30	R/W	1
AV-34	Al-4 Setup	See AV-30	R/W	1
AV-35	AI-5 Setup	See AV-30	R/W	1
AV-36	•			
AV-37				
AV-38				
AV-39				
AV-40				
AV-41	Heating Attained SP	Setpoint use to verify that the heat is operating correctly	R/W	90°F
AV-42	Cooling Stage 1 Attained SP	Setpoint use to verify that the first stage of cooling is operating correctly	R/W	60°F
	Analog Value 043			
AV-44	Dehumidifier Reset SP	Amount the Space Humidity needs to be under the setpoint to trigger the dehumidifier output ACTIVE	R/W	-2%
AV-45	Dehumidifier Trigger SP	Amount the Space Humidity needs to be over the setpoint to trigger the dehumidifier output ACTIVE	R/W	4%
AV-46	De-Humidity Setpoint	Setpoint the dehumidifier output will control too	R/W	50%
AV-47	Dehu 2 nd Stage RA SP	When 2 nd stage compressor is enabled for dehumidification the Return Air sensor must be above this value to allow the second stage	R/W	65
AV-48 H	lours of Operation	Hours of Operation for flush command – a count of the hours the unit has been operating when BV-63	R/W	0
	<u> </u>	(Enable 24 Hour Flush) is on.		





AV-50				
AV-51				
AV-52	Aux Heat Enable Time	The Aux Heat will be enabled when the second stage heat request is on at BV-18 for more than 300 seconds (10 Minutes).	R/W	300 sec
AV-53				
AV-54				
AV-55				
AV-56				
AV-57	Economizer Valve SP	The Economizer Valve opens when the Core Water temperature at Al-5 is below this setpoint.	R/W	40°F
AV-58	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	1.6
AV-59	Avg 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	Calibration 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
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	1
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	1
AV-64	Vacant Clg SP	Used in Hotel Mode. When a room is known vacant, the setpoint can be set above 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	65.0°F
AV-66	Room Setpoint	The occupied room setpoint	R/W	73.0°F
AV-67	Occupied SP Hi Limit	The maximum occupied room setpoint allowed.	R/W	85.0°F
AV-68	Occupied SP Lo Limit	The minimum occupied room setpoint allowed	R/W	55.0°F
AV-69	Clg Offset	The offset from Room Setpoint used to calculate the Occupied Cooling SP	R/W	1.0°F
AV-70	Htg Offset	The offset from Room Setpoint used to calculate the Occupied Heating SP	R/W	1.0°F





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AV-71	Unoccupied Clg SP	The cooling setpoint used when the thermostat is unoccupied.	R/W	80.0°F
AV-72	Unoccupied Htg SP	The heating setpoint used when the thermostat is unoccupied.	R/W	60.0°F
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				
AV-76	Dehu High SP	Dehumidification Maximum Supply Setpoint	RW	75
AV-77	Dehu Low SP	Dehumidification Minimum Supply Setpoint	RW	55
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	SP Inc/dec	The room setpoint will change by this value when adjusted at the thermostat.	R/W	.5°F
AV-83	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	1
AV-84				
AV-100		Internal thermistor display descriptor. The present value is automatically transferred. The AV description holds the descriptor to display.	R	variable
AV-101		Humidity display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display.	R/W	
AV-102		Discharge Air display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-103		Cooling Stage 1 display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-104		Cooling stage 2 display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-105		Water Valve display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-106		Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-107		Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	





AV-108	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-109	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-110	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-111	Display descriptor. Transfer the value to display to the present value. The AV description holds the descriptor to display	R/W	
AV-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			R	
BI-1	Motion	Motion sensor status from the add-on card	R	
BI-2			R	
BI-3			R	
BI-4			R	
BI-5			R	

Binary Outputs

Instance	Object Name	Description	Read/Write	Default
BO-0	Fan	Output for Fan Control	R/W	OFF
BO-1	Compressor 1 / Dehumidify	Output for Cooling Stage 1, also used to Dehumidify	R/W	OFF
BO-2	Compressor 2	Output for Cooling Stage 2	R/W	OFF
BO-3	Rev Valve/ Heating Stage 1	Output for Heating Stage 1	R/W	OFF
BO-4	Condenser Valve	Output for the condenser/water valve	R/W	OFF
BO-5	Scheduled Occupied	Logical point only. Used for scheduling purposes. INACTIVE is unoccupied.	R/W	ON

Binary Values

Instance	Object Name	Description	Read/Write	Default
BV-0	Bad Sensor Alarm	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				
BV-3	HP Comp Call	Heatpump Compressor Call - Status	R	OFF





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BV-4	Econ Valve Cooling	Economizer Valve is called to open for cooling	R	OFF
BV-5				
BV-6				
BV-7	Flush Command	Status of the command to flushing of the Economizer valve	R	OFF
BV-8	Flush Request	Status of flush request by the 24 hour timer or the Network Flush Request	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	ON
BV-11				
BV-12				
BV-13				
BV-14	Discharge Temp Valid	Indicates if the discharge temperature is valid	R	ON
BV-15	Dehumidify Command	Status of the Dehumidify Request	R	OFF
BV-16	Htg Stage 1 Request	Heating Stage 1 request after the anti S/S.	R	OFF
BV-17	Clg Stage 1 Request	Cooling Stage 1 request after the anti S/S.	R	OFF
BV-18	Htg Stage 2 Request	Heating Stage 2 request after the anti S/S.	R	OFF
BV-19	Clg Stage 2 Request	Cooling Stage 2 request after the anti S/S.	R	OFF
BV-20	Reserved	This point is reserved for internal thermostat use and its value cannot be changed.	R	
BV-21	Reserved	This point is reserved for internal thermostat use and its value cannot be changed.	R	
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-66) – Space Alarm Offset (AV-61) for at least 7200 seconds.	R	OFF
BV-25	Space To Cool Alarm	The space temperature has been above the Room Set point (AV-66) + Space Alarm Offset (AV-61) for at least 7200 seconds.	R	OFF
BV-26	Heat Stage 1 Status	The status of the stage 1 heat request before the 180 second anti-short cycle delay.	R	OFF
BV-27	Cool Stage 1 Status	The status of the stage 1 cool request before the 180 second anti-short cycle delay.	R	OFF
BV-28	Heat Stage 2 Status	The status of the stage 2 heat request before the 180 second anti-short cycle delay.	R	OFF
BV-29	Cool Stage 2 Status	The status of the stage 2 cool request before the 180 second anti-short cycle delay.	R	OFF
BV-30	Htg Attained Alarm	The discharge air did not reach the setpoint at AV-41 with a heating request	R	OFF





BV-31	Clg Attained Alarm	The discharge air did not reach the setpoint at AV-42 with a cooling request	R	OFF
BV-32				
BV-33	CoreH2OAlarmStat us	The core water temperature is outside of the setpoint limits	R	OFF
BV-34	Core Alarm w/o Delay	Core Alarm without delay - Diagnostics	R	OFF
BV-35	Core Water Alarm	Latching alarm point for the Core Water Alarm Status	R/W	OFF
BV-36	Core Water Alarm Reset	Reset for the core water alarm	R	OFF
BV-37	Low Core Water Temp	The core water is below the setpoint set at AV-50	R	OFF
BV-38	High Core Water Temp	The core water is above the setpoint set at AV-51	R	OFF
BV-39				
BV-40	Occupied Status	Occupancy status - switches the thermostats occupancy settings, ON = Occupied Setpoint Mode or After Hours Mode.	R	ON
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	ON
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		•		
BV-46				
BV-47				
BV-48				
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		·		
BV-51				
BV-52	Scheduled Flush Command	Manual or BAS scheduling command for flushing the water valve	R/W	OFF
BV-53	Enable 2-Stage Cooling	OFF = 1-Stage of cooling enabled ON = 2-Stages of cooling enabled	R/W	OFF
BV-54	Enable 2 nd Stage Clg Dehu	When active commands 2 nd Stage Clg ON with Dehumidify	R/W	ON
BV-55				
BV-56				
BV-57	Disable Splash	When ACTIVE, the "EXACTLOGIC" splash will not show after key presses	R/W	ON





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				
BV-61				
BV-62				
BV-63	Enable 24h Flush	This point when enabled will flush the economizer valve once every 24 hours.	R/W	OFF
BV-64				
BV-65				
BV-66	Disable Unit	When ON this point will disable and lockout all analog and binary outputs.	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	Fan Op Mode	Controls if the fan will cycle or run continuously. OFF = Cycle, ON = Continuous, BV-40 must also be ON.	R/W	ON
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/W	ON
BV-72	НР Туре	OFF = Compressor/Reversing Valve Mode ON = Heat/Cool Mode	R/W	OFF
BV-73	Rev Valve	Set which mode to turn on the reversing value. OFF = Heat, ON = Cool	R/W	ON
BV-74	Reserved	This point is reserved for internal thermostat use and its value cannot be changed	R	OFF
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BV-100		Enable internal thermistor descriptor	R/W	ON
BV-101		Enable humidity descriptor	R/W	OFF
BV-102		Enable discharge air descriptor	R/W	OFF
BV-103		Enable cooling stage 1 descriptor	R/W	OFF
BV-104		Enable cooling stage 2 descriptor	R/W	OFF
BV-105		Enable water valve descriptor	R/W	OFF
BV-106		Enable descriptor	R/W	OFF
BV-107		Enable descriptor	R/W	OFF
BV-108		Enable descriptor	R/W	OFF
BV-109		Enable descriptor	R/W	OFF
BV-110		Enable descriptor	R/W	OFF
BV-111		Enable descriptor	R/W	OFF
BV-112		Enable outside air descriptor	R/W	OFF

