

AURORA

Aurora Universal Protocol Converter (UPC)

Points List

Software Version 1.01 Utilizing the Aurora UPC Controller

Aurora UPC Points List

BACnet Points for Single Compressor WSHP

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
		Note-*** Requires AXB	<i>Analog Value</i>						
1	AV	ZoneTemp_an	zone_temp_an	R		°F	Displays the zone temperature if sensor is present or if overridden by the BAS.		
2	AV	ZoneTmpAdj_c	zone_temp_adj_c	R/W	0	°F	Displays the zone temp adjust value, this is used to calibrate the zone sensor.		
3	AV	ActiveSetPt_an	active_setpt_an	R		°F	Displays the set point that is controlling the call for the compressor.		
4	AV	Zone_Temp_Ovrdr_C	zone_temp_ovrd_c	R/W	0	°F	Allows for the network to override the zone temp sensor reading if BV-55 is set to Active or BAS.		
5	AV	Set point	occ_clg_sp_c	R/W	76	°F	Displays and sets the occupied cooling set point.		
6	AV	Set point	occ_htg_sp_c	R/W	70	°F	Displays and sets the occupied heating set point.		
7	AV	Set point	unocc_clg_sp_c	R/W	85	°F	Displays and sets the unoccupied cooling set point.		
8	AV	Set point	unocc_htg_sp_c	R/W	60	°F	Displays and sets the unoccupied heating set point.		
9	AV	Standby_Cool_c	standby_cool_c	R/W	76	°F	Displays and sets the standby cooling set point.		
10	AV	Standby_Heat_c	standby_heat_c	R/W	68	°F	Displays and sets the standby heating set point.		
11	AV	Set point	eff_clg_sp_an	R		°F	Displays the effective cooling set point.		
12	AV	Set point	eff_htg_sp_an	R		°F	Displays the effective heating set point.		
13	AV	Set point	clg_adj_an	R		°F	Displays the cooling set point shift value.		
14	AV	Set point	htg_adj_an	R		°F	Displays the heating set point shift value.		
15	AV	Rem Setpt Span_c	rem_setpt_span_c	R/W	5	°F	Allows for the network to set the warm/cool adjust control value.		
16	AV	Humidity_an	humidity_an	R		%rh	Displays the humidity sensor reading if sensor is present.		
17	AV	Humidity_c	humidity_c	R/W	0	%rh	Allows for the network to override the humidity input if no sensor is connected.		
18	AV	OccDehumSetpt_c	occ_dehum_setpt_c	R/W	53	%rh	Allows for the network to adjust the occupied dehumidify set point.		
19	AV	Unnocc Dehum Setpt_c	unocc_dehum_setpt_c	R/W	75	%rh	Allows for the network to adjust the unoccupied dehumidify set point.		
20	AV	Dehum_Diff_c	dehum_diff_c	R/W	5	%rh	Allows for the network to adjust the differential for humidity set point.		
21	AV	CO ₂ _an	co2_an	R		ppm	Displays the space CO ₂ reading if sensor is present.		
22	AV	CO ₂ _c	co2_c	R/W	0	ppm	Allows for network override of the space co2 if no sensor is present.		
23	AV	VOC	voc_an	R		ppm	Displays the space voc (volatile organic compounds) if sensor is present.		
24	AV	VOC_c	voc_c	R/W	0	ppm	Allows for network override of the space voc if no sensor is connected.		
25	AV	OAT_an	oat_an	R		°F	Displays the outside side air temperature if bas is writing to oat_c.		
26	AV	OAT_c	oat_c	R/W	0	°F	Allows for network override of the outside side air temperature.		
27	AV	*AXB Spare Analog Input_an	*axb_spare_ana_input_an	R		°F	*Displays the value of the spare analog input on the AXB.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text
28	AV	*LWT_an	*lvg_wtr_temp_an	R		°F	*Displays the leaving water temperature.	
29	AV	*Liq Line Temp_an	*liq_line_temp_an	R		°F	*Displays the liquid line temperature.	
30	AV	ABC_LAT_an	abc_lat_an	R		°F	Displays the leaving air temperature that is connected to the FP2 terminals on the ABC.	
31	AV	Coax Temp_an	coax_temp_an	R		°F	Displays the coax temperature read by the FP1 sensor.	
32	AV	Fp1 Setpt_an	fp1_setpoint_an	R	30°	°F	Displays the FP1 freeze detection limit temperature (coax temp).	
33	AV	ECM PWM Pct_an	ecm_pwm_an	R		%	Displays the current ECM blower operating percentage.	
34	AV	ECM SW Speed_an	ecm_sw_speed_an	R		%	Displays a value between 1-12 that is directly related to the ECM blower speeds.	
35	AV	ECM Override_c	ecm_override_c	R/W	0	%	Allows network to override the ecm blower, select from virtual switches 1-12, writing to this point will override all fan speeds.	
36	AV	Fan Low_c	fan_low_c	R/W	2	N/A	Allows for the network to adjust the low speed fan value, select a value between 1-12.	
37	AV	Fan Medium_c	fan_medium_c	R/W	7	N/A	Allows for the network to adjust the medium speed fan value, select a value between 1-12.	
38	AV	Fan High_c	fan_high_c	R/W	9	N/A	Allows for the network to adjust the high speed fan value, select a value between 1-12.	
39	AV	Aux Heat Speed_c	fan_aux_heat_c	R/W	9	N/A	Allows for the network to adjust the Aux. Heat speed fan value, select a value between 1-12.	
40	AV	Clg CFM Offset ana_c	clg_cfm_offset_ana_c	R/W	1	N/A	Allows for the network to adjust the blower CFM to improve passive dehumidification.	[1 = HGT CFM = CLG CFM] [2 = -5% CLG CFM] [3 = -10% CLG CFM] [4 = -15%CLG CFM] [5 = +5% CLG CFM]
41	AV	Temporary Occupancy Time Remaining_an	temp_occ_time_an	R		m/sec	Displays the amount of time left in temporary occupancy only while in Temp Occ.	
42	AV	OccManCmd_c	occ_man_cmd_ana_c	R/W	1	N/A	Allows for the network to command the occupancy of the unit if BV-50 is set to Active or "AV".	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]
43	AV	EffOccupY_An	eff_occ_an	R			Displays the current occupancy state of the unit.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]
44	AV	Lockouts Enum_an	lockouts_enumerated_an	R		N/A	Displays the current lock-out alarm value, refer to the alarms table for a description.	
45	AV	LO_Stat_Reg_an	lo_stat_reg_an	R		N/A	Do not map	
46	AV	Control Voltage_an	control_voltage_an	R		V	Displays the ABC's low voltage control value.	
47	AV	Est_Line_Voltage_an	est_line_voltage_an	R		V	Displays the estimated line voltage to the unit, this can be calibrated using point AV-62.	
48	AV	Mode_st_an	mode_st_an	R		N/A	Displays a value associated with the operating mode of the unit.	[1 = Standby] [2 = Fan Only] [3 = Cool Stage 1] [4 = Cool Stage 2] [5 = Hot Gas Reheat] [6 = Heat Stage 1] [7 = Heat Stage 2] [8 = Emergency Heat] [9 = Auxiliary Heat] [10 = Emergency Shutdown] [11 = Load Shed] [12 = Unit In Lock out] [13 = Test Mode]

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text
49	AV	*Water Flow_an	*water_flow_an	R		gpm	*Displays the calculated GPM thru the heat exchanger if the unit is equipped with the AXB and energy monitoring hardware.	
50	AV	*Total Power_an	*total_power_an	R		W	*Displays the total power consumption if the unit is equipped with the AXB and energy monitoring hardware.	
51	AV	*Total Capacity_an	*total_capacity_an	R		Btu/hr	*Displays the total BTU operating capacity if the unit is equipped with the AXB and energy monitoring hardware.	
52	AV	*SuperHeat_an	*super_heat_an	R		°F	*Displays the calculated super-heat if the unit is equipped with the AXB and energy monitoring hardware.	
53	AV	*Suct Temp_an	*suct_temp_an	R		°F	*Displays the measured suction temperature if the unit is equipped with the AXB and refrigerant monitoring hardware.	
54	AV	*Suct Press_an	*suction_press_an	R		psi	*Displays the measured suction pressure if the unit is equipped with the AXB and refrigerant monitoring hardware.	
55	AV	*HE/HR_an	*he_hr_an	R		Btu/hr	*Displays the calculated heat of extraction/rejection if the unit is equipped with the AXB and performance monitoring hardware.	
56	AV	*Fan Power_an	*fan_power_an	R		W	*Displays the calculated fan power consumption if the unit is equipped with the AXB and performance monitoring hardware.	
57	AV	*Fan Current_an	*fan_current_an	R		A	*Displays the measured fan current if the unit is equipped with the AXB and performance monitoring hardware.	
58	AV	*EWT_an	*entering_wtr_temp_an	R		°F	*Displays the measured entering water temperature if the unit is equipped with the AXB and performance monitoring hardware.	
59	AV	*Dischg Press_an	*dischg_press_an	R		psi	*Displays the measured discharge pressure of the compressor if sensor is present if the unit is equipped with the AXB and performance monitoring hardware.	
60	AV	*Compressor Power_an	*compressor_power_an	R		W	*Displays the calculated compressor power consumption if the unit is equipped with the AXB and performance monitoring hardware.	
61	AV	Acc1 Delay_c	acc1_delay_c	R/W	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output.	
62	AV	Measured_Line_Voltage_c	measured_line_voltage_c	R/W	0	N/A	Allows for the network to calibrate the measured line voltage.	
63	AV	Tstat Ovrdr_c	tstat_ovrd_c	R	0	N/A	Do not map	
64	AV	SW Part No_an	sw_part_no_an	R		N/A	Do not map	
65	AV	ABC FW BETA_an	abc_fw_beta_an	R		N/A	Do not map	
66	AV	ABC FW Rev_an	abc_fw_rev_an	R		N/A	Do not map	
67	AV	R0_c	m540_c	R	0	N/A	Do not map	
68	AV	R10_c	m555_c	R	120	N/A	Do not map	
69	AV	R11_an	m558_an	R		N/A	Do not map	
70	AV	R12_c	m557_c	R	1	N/A	Do not map	
71	AV	R13_c	m563_c	R	0	N/A	Do not map	

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text
72	AV	R14_c	m565_c	R	30	N/A	Do not map	
73	AV	R15_c	m567_c	R	76	N/A	Do not map	
74	AV	R16_an	m560_an	R		N/A	Do not map	
75	AV	R17_c	m569_c	R	120	N/A	Do not map	
76	AV	R18_c	m571_c	R	0	N/A	Do not map	
77	AV	R1_an	m545_an	R		N/A	Do not map	
78	AV	R21_an	m535_an	R		N/A	Do not map	
79	AV	R22_c	m574_c	R	0	N/A	Do not map	
80	AV	R23_an	m576_an	R		N/A	Do not map	
81	AV	R24_c	m579_c	R	1	N/A	Do not map	
82	AV	R25_an	m578_an	R		N/A	Do not map	
83	AV	R26_an	m582_an	R		N/A	Do not map	
84	AV	R27_an	m584_an	R		N/A	Do not map	
85	AV	R28_an	m586_an	R		N/A	Do not map	
86	AV	R29_an	m588_an	R		N/A	Do not map	
87	AV	R30_an	m590_an	R		N/A	Do not map	
88	AV	R31_an	m592_an	R		N/A	Do not map	
89	AV	R33_an	m594_an	R		N/A	Do not map	
90	AV	R343_c	m598_c	R	32767	N/A	Do not map	
91	AV	R344_an	m599_an	R		N/A	Do not map	
92	AV	R34_c	m596_c	R	60	N/A	Do not map	
93	AV	R3_an	m547_an	R		N/A	Do not map	
94	AV	R5_c	r5_c	R	240	N/A	Do not map	
95	AV	R6_c	m549_c	R	0	N/A	Do not map	
96	AV	R7_c	m551_c	R	0	N/A	Do not map	
97	AV	R9_c	m553_c	R	120	N/A	Do not map	
98	AV	Test Md Pwd_c	test_md_pwd_c	R	0	N/A	Do not map	
99	AV	point name_c	m401_c	R	0	N/A	Do not map	
100	AV	point name_c	m405_c	R	0	N/A	Do not map	
101	AV	point name_c	m409_c	R	0	N/A	Do not map	

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text
102	AV	point name_c	m413_c	R	0	N/A	Do not map	
103	AV	point name_c	m417_c	R	0	N/A	Do not map	
104	AV	point name_c	m421_c	R	0	N/A	Do not map	
105	AV	point name_c	m425_c	R	0	N/A	Do not map	
106	AV	point name_c	m429_c	R	0	N/A	Do not map	
107	AV	point name_c	m433_c	R	0	N/A	Do not map	
108	AV	point name_c	m441_c	R	0	N/A	Do not map	
109	AV	point name_c	m445_c	R	0	N/A	Do not map	
110	AV	point name_c	m449_c	R	0	N/A	Do not map	
111	AV	point name_c	m453_c	R	0	N/A	Do not map	
112	AV	point name_c	m488_c	R	0	N/A	Do not map	
113	AV	point name_c	m494_c	R	0	N/A	Do not map	
114	AV	point name_c	m495_c	R	0	N/A	Do not map	
115	AV	point name_c	m496_c	R	0	N/A	Do not map	
116	AV	point name_c	m497_c	R	0	N/A	Do not map	
117	AV	point name_c	m498_c	R	0	N/A	Do not map	
118	AV	point name_c	m500_c	R	0	N/A	Do not map	
119	AV	point name_c	m501_c	R	0	N/A	Do not map	
Note: "*" Requires AXB			Binary Values				Inactive = 0	Active = 1
1	BV	ABC Modbus Comm Alarm	abc_modbus_comm_alarm	R			Displays the status of the Modbus communication between the ABC and the UPC.	Communication Normal Communication Lost
2	BV	Acc 1 Status_st	acc1_st	R			Displays the status of the ACC-1 output, this output is configured using the ABC dipswitches.	Off On
3	BV	ALM_RHt_HDW_st	alm_rht_hdw_st	R			Displays the status of the ABC's alarm/reheat output. If configured with reheat, this output will show Active(Reheat) when the unit is operating in reheat.	Off On
4	BV	Alarm Reset Command_st	alarm_reset_cmd_st	R			Displays the commanded status of the alarm reset command.	Off On

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text					
								Off	On				
5	BV	Alarm Reset_c	alarm_reset_c	R/W	Inactive (0)		Allows for the network to command the alarm reset, to clear the alarm command to "ON" then Back to "OFF".	Off	On				
6	BV	Aux_Heat_Ena_c	aux_heat_ena_c	R/W	Inactive (0)		Allows for the network to select how the electric heat output 1 is controlled, if set to Aux heat the P.I.D. loop will enable and disable the output.	Network EH	Aux Heat				
7	BV	Aux Heat Command_st	aux_heat_cmd_st	R			Displays the status of the aux heat command.	Off	On				
8	BV	CC_Op_Cfg_st	cc_op_cfg_st	R			Displays the position of SW-2 dip switch 6 that is associated with the compressor capacity. *Factory Set	Dual Capacity	Single Capacity				
9	BV	Clear Faults_c	clear_faults_c	R	Inactive (0)		Do not map	Do not map	Do not map				
10	BV	Condensate_st	condensate_st	R			Do not map	Do not map	Do not map				
11	BV	D SW1_c	sw2_1_c	R/W	Active (1)		Used to select the position of SW-2 dip switch 1 which selects the freeze detection set point.	15°	30°				
12	BV	D SW2_c	sw2_2_c	R/W	Active (1)		Not Used	Do not map	Do not map				
13	BV	D SW3_c	sw2_3_c	R/W	Active (1)		Used to select the position of dip switch 3 which selects the default position of the reversing valve.	Cooling	Heating				
14	BV	D SW4_c	sw2_4_c	R/W	Active (1)		Switch Position	ON	Acc 1 On with Fan	OFF	Acc 1 On with Compressor Call	ON	Compressor Call Energizes Acc 1 For Slow Opening Water Valve with 90 Second Delay
15	BV	D SW5_c	sw2_5_c	R/W	Inactive (0)			ON		OFF		OFF	
16	BV	D SW6_c	sw2_6_c	R/W	Inactive (0)		Used to select the position of dip switch 6 which selects dual capacity or single capacity operation. *Factory Set	Dual Capacity	Single Capacity				
17	BV	D SW7_c	sw2_7_c	R/W	Active (1)		Used to select the position of dip switch 7 which selects a pulsed or continuous output signal.	Pulsed	Continuous				
18	BV	D SW8_c	sw2-8_c	R/W	Active (1)		Used to select the position of dip switch 8 which is factory set for either reheat or normal operation. *Factory Set.	Reheat	Normal				

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
19	BV	Dehumidification Command_st	dh_cmd_st	R			Displays the status of the dehumidification command.	Off	On
20	BV	DH Disable_c	dh_disable_c	R/W	Active (0)		Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled
21	BV	DH_HDW_ST	dehum_hdw_st	R			Displays the status of the DH hardware input.	Off	On
22	BV	Dip Sw Ovrld Ena_c	dip_sw_ovrd_ena_c	R/W	Inactive (0)		Used to enable the BAS write privileges for dip switch overrides.	Off	On
23	BV	EH1 Status_st	eh_1_st	R			Displays the status of the electric heat 1 output.	Off	On
24	BV	EH2 Status_st	eh_2_st	R			Displays the status of the electric heat 2 output.	Off	On
25	BV	Emgcy Shutdn_c	e_stop_c	R/W	Inactive (0)		Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
26	BV	ES_HDW_ST	es_hdw_st	R			Displays the status of the emergency shutdown hardware input.	Normal	Shutdown
27	BV	Factory Test Ena_c	factory_test_ena_c	R	Inactive (0)		Do not map	Do not map	Do not map
28	BV	Fan Operation_c	fan_operation_c	R/W	Active (1)		Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
29	BV	Fan Status_st	fan_st	R			Displays the current status of the fan output.	Off	On
30	BV	FP1_Lim_st	fp1_lim_st	R			Displays the current freeze detection set point.	15°	30°
31	BV	EH1_Ovrld_c	eh1_ovrd_c	R/W	Inactive (0)		Allows for network control of electric heat 1 output relay if BV-6 is set to "network".	Off	On
32	BV	G Cmd_st	g_cmd_st	R			Displays the status of the network "G" command.	Off	On
33	BV	G_HDW_ST	g_hdw_fan_proving_input_st	R			Displays the status of the "G" hardware input, this is used as a fan proving input.	Off	On
34	BV	Heat Cool Command_st	heat_cool_st	R			Displays the status of the network "O" command.	Off	On
35	BV	High_Press_HDW_ST	high_press_hdw_st	R			Displays the status of the high pressure hardware input.	Off	On
36	BV	Internal_External Scheduling_st	internal_external_scheduling_st	R	Internal Schedule		Displays the selected schedule that the UPC is operating on.	Internal	External
37	BV	Load Shed_c	load_shed_c	R/W	Inactive (0)		Allows for the network to enable/disable load shed.	Off	On

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
38	BV	Lockout Status_st	lockout__st	R			Displays the status of the lockout alarm output.	Normal	Lockout
39	BV	LockOut_CFG_st	lockout_cfg_st	R			Do not map	Do not map	Do not map
40	BV	Lockout_hdw_st	lockout_hdw_st	R			Displays the status of the relay for the ABC's Lockout output.	Normal	Lockout
41	BV	LP_HDW_ST	low_press_hdw_st	R	Active (1)		Displays the status of the low pressure switch hardware input.	Open	Closed
42	BV	LS_HDW_ST	load_shed_hdw_st	R			Displays the status of the load shed hardware input.	Normal	Load Shed
43	BV	Network DH_c	network_dh_c	R/W	Inactive (0)		Allows for the network to enable/disable dehumidification.	Off	On
44	BV	Network G_c	network_g_c	R/W	Inactive (0)		Allows for network control of the fan.	Off	On
45	BV	Network O_c	network_o_c	R/W	Inactive (0)		Allows for network control of the reversing valve.	Off	On
46	BV	Network W_c	network_w_c	R/W	Inactive (0)		Allows for network control of electric heat output.	Off	On
47	BV	Network Y1_c	network_y1_c	R/W	Inactive (0)		Allows for network control of the Y1 output.	Off	On
48	BV	Network Y2_c	network_y2_c	R/W	Inactive (0)		Allows for network control of the Y2 output.	Off	On
49	BV	O_HDW_ST	o_hdw_occ_ sensor_ input_st	R			Displays the status of the "O" hardware input, also used as an occupancy sensor input.	Off	On
50	BV	Occ_Cmd_AV-MSV_Select_C	occ_cmd_av-msv_select_c	R/W	Inactive (0)		Allows for network selection of either a "MSV" or "AV" to command the occupancy input.	MSV	AV
51	BV	Reheat_CFG_st	reheat_cfg_st	R			Displays the status of the dip switch used to select reheat or non-reheat operation.	Reheat	Normal
52	BV	Rev Vlv Status_st	rev_vlv_st	R	Inactive (0)		Displays the status of the reversing valve output.	Heat	Cool
53	BV	RV_Setup_st	rv_setup_st	R			Displays the default position of reversing valve that is set by BV-13.	Cooling	Heating
54	BV	Schedule Selector Command_c	schedule_selector_c	R/W	Inactive (0)		Allows for network selection of the internal schedule or external schedule.	Internal	External
55	BV	Zone_Temp_Selector_c	zone_temp_selector_c	R/W	Inactive (0)		Allows for network selection of the zone sensor input.	Sensor	BAS

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
56	BV	SW1_Test_CFG_st	sw1_test_cfg_st	R			Displays the status of the SW2 dip switch override point.	Off	On
57	BV	SW_2_4_st	sw_2_4_st	R			Displays the status of the SW2-4 dipswitch, used along with SW2-5 to select the ACC-1 mode operation.	Off	On
58	BV	SW_2_5_st	sw_2_5_st	R			Displays the status of the SW2-5 dipswitch, used along with SW2-4 to select the ACC-1 mode operation.	Off	On
59	BV	Temp Occ Dis_c	temp_occ_dis_c	R/W	Active (1)		Allows for network control to disable temporary occupancy.	Disabled	Enabled
60	BV	TempOcc_st	temp_occ_st	R			Displays the status of the temporary occupancy input.	Normal	Temp Occ
61	BV	Test Mode Ena_c	test_mode_ena_c	R	Inactive (0)		Do not map	Do not map	Do not map
62	BV	Test Mode HDW_st	test_mode_hdw_st	R			Do not map	Do not map	Do not map
63	BV	W_HDW_ST	w_hdw_dirty_filter_input_st	R			Displays the status of the "W" hardware input, can also used as a dirty filter input.	Off	On
64	BV	Y1 Cmd_st	y1_cmd_st	R			Displays the status of the "Y1" input to the ABC from the UPC.	Off	On
65	BV	Y1 HDW st	y1_hdw_comp_proving_input_st	R			Displays the status of the "Y1" hardware input, used as a compressor proving input, may require additional hardware.	Off	On
66	BV	Y2 Cmd_st	y2_cmd_st	R			Displays the status of the "Y2" input to the ABC from the UPC.	Off	On
67	BV	Y2_HDW_ST	y2_hdw_vlv_end_sw_input_st	R			Displays the status of the "Y2" hardware input, used as a valve end switch input, may require additional hardware.	Off	On
68	BV	point name_c	m372_c	R	Inactive (0)		Do not map	Do not map	Do not map
69	BV	point name_c	m373_c	R	Inactive (0)		Do not map	Do not map	Do not map
70	BV	point name_c	m374_c	R	Inactive (0)		Do not map	Do not map	Do not map
71	BV	point name_c	m375_c	R	Inactive (0)		Do not map	Do not map	Do not map
72	BV	point name_c	m376_c	R	Inactive (0)		Do not map	Do not map	Do not map

BACnet Points for Single Compressor WSHP cont..

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
73	BV	point name_c	m377_c	R	Inactive (0)		Do not map	Do not map	Do not map
74	BV	EH2_Ovrdr_c	eh2_ovrd_c	R/W	Inactive (0)		Allows for network control of the electric heat 2 output relay.	Off	On
75	BV	EH2 Mode_c	eh2_mode_c	R/W	Active (1)		Used to change the way in which the EH2 output from network controlled output to a aux heat output.	Aux_Heat	Network_EH
76	BV	LOADSHED_ST	loadshed_st	R			Displays the status of the load shed input.	Normal	Load Shed
Multi-State Values									
1	MSV	OccManCmd_c	occ_man_cmd_c	R/W	1		Use this point to command unit occupancy, verify that BV-50 is set to inactive (MSV).	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
7	MSV	Clg CFM Offset-MSV_c	clg_cfm_offset_msv_c	R/W	1		Allows for network selection of the cooling cfm reduction value.	[1 = HGT CFM = CLG CFM] [2 = - 5% CIG CFM] [3 = -10% CLG CFM] [4 = -15%CLG CFM] [5 = +5% CLG CFM]	
8	MSV	Lockout_Enumerated_st	lockout_enumerated_st	R			Displays a specific alarm value that can be associated with the alarms table.	Refer to the Aurora UPC alarms table	
9	MSV	Compressor Status_st	compressor_status_st	R			Displays the capacity of the compressor output relay.	[1 = Off] [2 = Low] [3 = High]	
10	MSV	EffectiveOccup_st	effect_occup_st	R			Displays the effective occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
11	MSV	Mode_of_Operation_st	mode_st	R			Displays the current operating mode of the unit.	[1 = Standby] [2 = Fan Only] [3 = Cool Stage 1] [4 = Cool Stage 2] [5 = Hot Gas Reheat] [6 = Heat Stage 1] [7 = Heat Stage 2] [8 = Emergency Heat] [9 = Auxiliary Heat] [10 = Emergency Shutdown] [11 = Load Shed] [12 = Unit In Lock Out] [13 = Test Mode]	

N2 Points for Single Compressor WSHP

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
		Note-"*" Requires AXB	Analog Value						
1	ADF	ZoneTemp_an	zone_temp_an	R		°F	Displays the zone temperature if sensor is present or if overridden by the BAS.		
2	ADF	ZoneTmpAdj_c	zone_temp_adj_c	R/W	0	°F	Displays the zone temp adjust value, this is used to calibrate the zone sensor.		
3	ADF	ActiveSetPt_an	active_setpt_an	R		°F	Displays the set point that is controlling the call for the compressor.		
4	ADF	Zone_Temp_Ovrd_C	zone_temp_ovrd_c	R/W	0	°F	Allows for the network to override the zone temp sensor reading if BV-55 is set to Active or (BAS).		
5	ADF	Set point	occ_clg_sp_c	R/W	76	°F	Displays and sets the occupied cooling set point.		
6	ADF	Set point	occ_htg_sp_c	R/W	70	°F	Displays and sets the occupied heating set point.		
7	ADF	Set point	unocc_clg_sp_c	R/W	85	°F	Displays and sets the unoccupied cooling set point.		
8	ADF	Set point	unocc_htg_sp_c	R/W	60	°F	Displays and sets the unoccupied heating set point.		
9	ADF	Standby_Cool_c	standby_cool_c	R/W	76	°F	Displays and sets the standby cooling set point.		
10	ADF	Standby_Heat_c	standby_heat_c	R/W	68	°F	Displays and sets the standby heating set point.		
11	ADF	Set point	eff_clg_sp_an	R		°F	Displays the effective cooling set point.		
12	ADF	Set point	eff_htg_sp_an	R		°F	Displays the effective heating set point.		
13	ADF	Set point	clg_adj_an	R		°F	Displays the cooling set point shift value.		
14	ADF	Set point	htg_adj_an	R		°F	Displays the heating set point shift value.		
15	ADF	Rem Setpt Span_c	rem_setpt_span_c	R/W	5	°F	Allows for the network to set the warm/cool adjust control value.		
16	ADF	Humidity_an	humidity_an	R		%rh	Displays the humidity sensor reading if sensor is present.		
17	ADF	Humidity_c	humidity_c	R/W	0	%rh	Allows for the network to override the humidity input if no sensor is connected.		
18	ADF	OccDehumSetpt_c	occ_dehum_setpt_c	R/W	53	%rh	Allows for the network to adjust the occupied dehumidify set point.		
19	ADF	Unnocc Dehum Setpt_c	unocc_dehum_setpt_c	R/W	75	%rh	Allows for the network to adjust the unoccupied dehumidify set point.		
20	ADF	Dehum_Diff_c	dehum_diff_c	R/W	5	%rh	Allows for the network to adjust the differential for humidity set point.		
21	ADF	CO ₂ _an	co2_an	R		ppm	Displays the space CO ₂ reading if sensor is present.		
22	ADF	CO ₂ _c	co2_c	R/W	0	ppm	Allows for network override of the space co2 if no sensor is present.		
23	ADF	VOC	voc_an	R		ppm	Displays the space voc (volatile organic compounds) if sensor is present.		
24	ADF	VOC_c	voc_c	R/W	0	ppm	Allows for network override of the space voc if no sensor is connected.		
25	ADF	OAT_an	oat_an	R		°F	Displays the outside side air temperature if bas is writing to oat_c.		
26	ADF	OAT_c	oat_c	R/W	0	°F	Allows for network override of the outside side air temperature.		
27	ADF	*AXB Spare Analog Input_an	*axb_spare_ana_input_an	R		°F	*Displays the value of the spare analog input on the AXB.		

N2 Points for Single Compressor WSHP cont..

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text
28	ADF	*LWT_an	*lvg_wtr_temp_an	R		°F	*Displays the leaving water temperature.	
29	ADF	*Liq Line Temp_an	*liq_line_temp_an	R		°F	*Displays the liquid line temperature.	
30	ADF	ABC_LAT_an	abc_lat_an	R		°F	Displays the leaving air temperature that is connected to the FP2 terminals on the ABC.	
31	ADF	Coax Temp_an	coax_temp_an	R		°F	Displays the coax temperature read by the FP1 sensor.	
32	ADF	Fp1 Setpt_an	fp1_setpoint_an	R	30°	°F	Displays the FP1 freeze detection limit temperature (coax temp).	
33	ADF	ECM PWM Pct_an	ecm_pwm_an	R		%	Displays the current ECM blower operating percentage.	
34	ADF	ECM SW Speed_an	ecm_sw_speed_an	R		%	Displays a value between 1-12 that is directly related to the ECM blower speeds.	
35	ADF	ECM Override_c	ecm_override_c	R/W	0	%	Allows network to override the ecm blower, select from virtual switches 1-12, writing to this point will override all fan speeds.	
36	ADF	Fan Low_c	fan_low_c	R/W	2	N/A	Allows for the network to adjust the low speed fan value, select a value between 1-12.	
37	ADF	Fan Medium_c	fan_medium_c	R/W	7	N/A	Allows for the network to adjust the medium speed fan value, select a value between 1-12.	
38	ADF	Fan High_c	fan_high_c	R/W	9	N/A	Allows for the network to adjust the high speed fan value, select a value between 1-12.	
39	ADF	Aux Heat Speed_c	fan_aux_heat_c	R/W	9	N/A	Allows for the network to adjust the Aux. Heat speed fan value, select a value between 1-12.	
40	ADF	Clg CFM Offset ana_c	clg_cfm_offset_ana_c	R/W	1	N/A	Allows for the network to adjust the blower CFM to improve passive dehumidification.	[1 = HGT CFM = CLG CFM] [2 = -5% CLG CFM] [3 = -10% CLG CFM] [4 = -15% CLG CFM] [5 = +5% CLG CFM]
41	ADF	Temporary Occupancy Time Remaining_an	temp_occ_time_an	R		m/sec	Displays the amount of time left in temporary occupancy only while in Temp Occ.	
42	ADF	OccManCmd_c	occ_man_cmd_ana_c	R/W	1	N/A	Allows for the network to command the occupancy of the unit if BV-50 is set to Active or "AV".	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]
43	ADF	EffOccup_An	eff_occ_an	R			Displays the current occupancy state of the unit.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]
44	ADF	Lockouts Enum_an	lockouts_enumerated_an	R		N/A	Displays the current lock-out alarm value, refer to the alarms table for a description.	
45	ADF	LO_Stat_Reg_an	lo_stat_reg_an	R		N/A	Do not map	
46	ADF	Control Voltage_an	control_voltage_an	R		V	Displays the ABC's low voltage control value.	
47	ADF	Est_Line_Voltage_an	est_line_voltage_an	R		V	Displays the estimated line voltage to the unit, this can be calibrated using point AV-62.	
48	ADF	Mode_st_an	mode_st_an	R		N/A	Displays a value associated with the operating mode of the unit.	[1 = Standby] [2 = Fan Only] [3 = Cool Stage 1] [4 = Cool Stage 2] [5 = Hot Gas Reheat] [6 = Heat Stage 1] [7 = Heat Stage 2] [8 = Emergency Heat] [9 = Auxiliary Heat] [10 = Emergency Shutdown] [11 = Load Shed] [12 = Unit In Lock Out] [13 = Test Mode]

N2 Points for Single Compressor WSHP cont..

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text
49	ADF	*Water Flow_an	*water_flow_an	R		gpm	*Displays the calculated GPM thru the heat exchanger if the unit is equipped with the AXB and energy monitoring hardware.	
50	ADF	*Total Power_an	*total_power_an	R		W	*Displays the total power consumption if the unit is equipped with the AXB and energy monitoring hardware.	
51	ADF	*Total Capacity_an	*total_capacity_an	R		Btu/hr	*Displays the total BTU operating capacity if the unit is equipped with the AXB and energy monitoring hardware.	
52	ADF	*SuperHeat_an	*super_heat_an	R		°F	*Displays the calculated super-heat if the unit is equipped with the AXB and energy monitoring hardware.	
53	ADF	*Suct Temp_an	*suct_temp_an	R		°F	*Displays the measured suction temperature if the unit is equipped with the AXB and refrigerant monitoring hardware.	
54	ADF	*Suct Press_an	*suction_press_an	R		psi	*Displays the measured suction pressure if the unit is equipped with the AXB and refrigerant monitoring hardware.	
55	ADF	*HE/HR_an	*he_hr_an	R		Btu/hr	*Displays the calculated heat of extraction/rejection if the unit is equipped with the AXB and performance monitoring hardware.	
56	ADF	*Fan Power_an	*fan_power_an	R		W	*Displays the calculated fan power consumption if the unit is equipped with the AXB and performance monitoring hardware.	
57	ADF	*Fan Current_an	*fan_current_an	R		A	*Displays the measured fan current if the unit is equipped with the AXB and performance monitoring hardware.	
58	ADF	*EWT_an	*entering_wtr_temp_an	R		°F	*Displays the measured entering water temperature if the unit is equipped with the AXB and performance monitoring hardware.	
59	ADF	*Dischg Press_an	*dischg_press_an	R		psi	*Displays the measured discharge pressure of the compressor if sensor is present if the unit is equipped with the AXB and performance monitoring hardware.	
60	ADF	*Compressor Power_an	*compressor_power_an	R		W	*Displays the calculated compressor power consumption if the unit is equipped with the AXB and performance monitoring hardware.	
61	ADF	Acc1 Delay_c	acc1_delay_c	R/W	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output.	
62	ADF	Measured_Line_Voltage_c	measured_line_voltage_c	R/W	0	N/A	Allows for the network to calibrate the measured line voltage.	
63	ADF	Tstat OvrD_c	tstat_ovrd_c	R	0	N/A	Do not map	
64	ADF	SW Part No_an	sw_part_no_an	R		N/A	Do not map	
65	ADF	ABC FW BETA_an	abc_fw_beta_an	R		N/A	Do not map	
66	ADF	ABC FW Rev_an	abc_fw_rev_an	R		N/A	Do not map	
67	ADF	R0_c	m540_c	R	0	N/A	Do not map	
68	ADF	R10_c	m555_c	R	120	N/A	Do not map	
69	ADF	R11_an	m558_an	R		N/A	Do not map	
70	ADF	R12_c	m557_c	R	1	N/A	Do not map	
71	ADF	R13_c	m563_c	R	0	N/A	Do not map	

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text
72	ADF	R14_c	m565_c	R	30	N/A	Do not map	
73	ADF	R15_c	m567_c	R	76	N/A	Do not map	
74	ADF	R16_an	m560_an	R		N/A	Do not map	
75	ADF	R17_c	m569_c	R	120	N/A	Do not map	
76	ADF	R18_c	m571_c	R	0	N/A	Do not map	
77	ADF	R1_an	m545_an	R		N/A	Do not map	
78	ADF	R21_an	m535_an	R		N/A	Do not map	
79	ADF	R22_c	m574_c	R	0	N/A	Do not map	
80	ADF	R23_an	m576_an	R		N/A	Do not map	
81	ADF	R24_c	m579_c	R	1	N/A	Do not map	
82	ADF	R25_an	m578_an	R		N/A	Do not map	
83	ADF	R26_an	m582_an	R		N/A	Do not map	
84	ADF	R27_an	m584_an	R		N/A	Do not map	
85	ADF	R28_an	m586_an	R		N/A	Do not map	
86	ADF	R29_an	m588_an	R		N/A	Do not map	
87	ADF	R30_an	m590_an	R		N/A	Do not map	
88	ADF	R31_an	m592_an	R		N/A	Do not map	
89	ADF	R33_an	m594_an	R		N/A	Do not map	
90	ADF	R343_c	m598_c	R	32767	N/A	Do not map	
91	ADF	R344_an	m599_an	R		N/A	Do not map	
92	ADF	R34_c	m596_c	R	60	N/A	Do not map	
93	ADF	R3_an	m547_an	R		N/A	Do not map	
94	ADF	R5_c	r5_c	R	240	N/A	Do not map	
95	ADF	R6_c	m549_c	R	0	N/A	Do not map	
96	ADF	R7_c	m551_c	R	0	N/A	Do not map	
97	ADF	R9_c	m553_c	R	120	N/A	Do not map	
98	ADF	Test Md Pwd_c	test_md_pwd_c	R	0	N/A	Do not map	
99	ADF	point name_c	m401_c	R	0	N/A	Do not map	
100	ADF	point name_c	m405_c	R	0	N/A	Do not map	
101	ADF	point name_c	m409_c	R	0	N/A	Do not map	

N2 Points for Single Compressor WSHP cont..

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
102	ADF	point name_c	m413_c	R	0	N/A	Do not map		
103	ADF	point name_c	m417_c	R	0	N/A	Do not map		
104	ADF	point name_c	m421_c	R	0	N/A	Do not map		
105	ADF	point name_c	m425_c	R	0	N/A	Do not map		
106	ADF	point name_c	m429_c	R	0	N/A	Do not map		
107	ADF	point name_c	m433_c	R	0	N/A	Do not map		
108	ADF	point name_c	m441_c	R	0	N/A	Do not map		
109	ADF	point name_c	m445_c	R	0	N/A	Do not map		
110	ADF	point name_c	m449_c	R	0	N/A	Do not map		
111	ADF	point name_c	m453_c	R	0	N/A	Do not map		
112	ADF	point name_c	m488_c	R	0	N/A	Do not map		
113	ADF	point name_c	m494_c	R	0	N/A	Do not map		
114	ADF	point name_c	m495_c	R	0	N/A	Do not map		
115	ADF	point name_c	m496_c	R	0	N/A	Do not map		
116	ADF	point name_c	m497_c	R	0	N/A	Do not map		
117	ADF	point name_c	m498_c	R	0	N/A	Do not map		
118	ADF	point name_c	m500_c	R	0	N/A	Do not map		
119	ADF	point name_c	m501_c	R	0	N/A	Do not map		
Note-** Requires AXB			Binary Values					Inactive = 0	Active = 1
1	BD	ABC Modbus Comm Alarm	abc_modbus_comm_alarm	R			Displays the status of the Modbus communication between the ABC and the UPC.	Communication Normal	Communication Lost
2	BD	Acc 1 Status_st	acc1_st	R			Displays the status of the ACC-1 output, this output is configured using the ABC dipperswitches.	Off	On
3	BD	ALM_RHt_HDW_st	alm_rht_hdw_st	R			Displays the status of the ABC's alarm/reheat output. If configured with reheat, this output will show Active(Reheat) when the unit is operating in reheat.	Off	On
4	BD	Alarm Reset Command_st	alarm_reset_cmd_st	R			Displays the commanded status of the alarm reset command.	Off	On

N2 Points for Single Compressor WSHP cont..

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text					
5	BD	Alarm Reset_c	alarm_reset_c	R/W	Inactive (0)		Allows for the network to command the alarm reset, to clear the alarm command to "ON" then Back to "OFF".	Off	On				
6	BD	Aux_Heat_Ena_c	aux_heat_ena_c	R/W	Inactive (0)		Allows for the network to select how the electric heat output 1 is controlled, if set to Aux heat the P.I.D. loop will enable and disable the output.	Network EH	Aux Heat				
7	BD	Aux Heat Command_st	aux_heat_cmd_st	R			Displays the status of the aux heat command.	Off	On				
8	BD	CC_Op_Cfg_st	cc_op_cfg_st	R			Displays the position of SW-2 dip switch 6 that is associated with the compressor capacity. *Factory Set	Dual Capacity	Single Capacity				
9	BD	Clear Faults_c	clear_faults_c	R	Inactive (0)		Do not map	Do not map	Do not map				
10	BD	Condensate_st	condensate_st	R			Do not map	Do not map	Do not map				
11	BD	D SW1_c	sw2_1_c	R/W	Active (1)		Used to select the position of SW-2 dip switch 1 which selects the freeze detection set point.	15°	30°				
12	BD	D SW2_c	sw2_2_c	R/W	Active (1)		Not Used	Do not map	Do not map				
13	BD	D SW3_c	sw2_3_c	R/W	Active (1)		Used to select the position of dip switch 3 which selects the default position of the reversing valve.	Cooling	Heating				
14	BD	D SW4_c	sw2_4_c	R/W	Active (1)		Switch Position	ON	Acc 1 On with Fan	OFF	Acc 1 On with Compressor Call	ON	Compressor Call Energizes Acc 1 For Slow Opening Water Valve with 90 Second Delay
15	BD	D SW5_c	sw2_5_c	R/W	Inactive (0)	ON		OFF					
16	BD	D SW6_c	sw2_6_c	R/W	Inactive (0)		Used to select the position of dip switch 6 which selects dual capacity or single capacity operation. *Factory Set	Dual Capacity	Single Capacity				
17	BD	D SW7_c	sw2_7_c	R/W	Active (1)		Used to select the position of dip switch 7 which selects a pulsed or continuous output signal.	Pulsed	Continuous				
18	BD	D SW8_c	sw2-8_c	R/W	Active (1)		Used to select the position of dip switch 8 which is factory set for either reheat or normal operation. *Factory Set.	Reheat	Normal				
19	BD	Dehumidification Command_st	dh_cmd_st	R			Displays the status of the dehumidification command.	Off	On				

N2 Points for Single Compressor WSHP cont..

Software Version 1.01 Utilizing the Aurora UPC Controller



Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
20	BD	DH Disable_c	dh_disable_c	R/W	Active (0)		Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled
21	BD	DH_HDW_ST	dehum_hdw_st	R			Displays the status of the DH hardware input.	Off	On
22	BD	Dip Sw Ovrdr Ena_c	dip_sw_ovrd_ena_c	R/W	Inactive (0)		Used to enable the BAS write privileges for dip switch overrides.	Off	On
23	BD	EH1 Status_st	eh_1_st	R			Displays the status of the electric heat 1 output.	Off	On
24	BD	EH2 Status_st	eh_2_st	R			Displays the status of the electric heat 2 output.	Off	On
25	BD	Emgcy Shutdn_c	e_stop_c	R/W	Inactive (0)		Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
26	BD	ES_HDW_ST	es_hdw_st	R			Displays the status of the emergency shutdown hardware input.	Normal	Shutdown
27	BD	Factory Test Ena_c	factory_test_ena_c	R	Inactive (0)		Do not map	Do not map	Do not map
28	BD	Fan Operation_c	fan_operation_c	R/W	Active (1)		Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
29	BD	Fan Status_st	fan_st	R			Displays the current status of the fan output.	Off	On
30	BD	FP1_Lim_st	fp1_lim_st	R			Displays the current freeze detection set point.	15°	30°
31	BD	EH1_Ovrdr_c	eh1_ovrd_c	R/W	Inactive (0)		Allows for network control of electric heat 1 output relay if BV-6 is set to "network".	Off	On
32	BD	G Cmd_st	g_cmd_st	R			Displays the status of the network "G" command.	Off	On
33	BD	G_HDW_ST	g_hdw_fan_proving_input_st	R			Displays the status of the "G" hardware input, this is used as a fan proving input.	Off	On
34	BD	Heat Cool Command_st	heat_cool_st	R			Displays the status of the network "O" command.	Off	On
35	BD	High_Press_HDW_ST	high_press_hdw_st	R			Displays the status of the high pressure hardware input.	Off	On
36	BD	Internal_External Scheduling_st	internal_external_scheduling_st	R	Internal Schedule		Displays the selected schedule that the UPC is operating on.	Internal	External
37	BD	Load Shed_c	load_shed_c	R/W	Inactive (0)		Allows for the network to enable/disable load shed.	Off	On
38	BD	Lockout Status_st	lockout_st	R			Displays the status of the lockout alarm output.	Normal	Lockout

N2 Points for Single Compressor WSHP cont..

Software Version 1.01 Utilizing the Aurora UPC Controller



Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
39	BD	LockOut_CFG_st	lockout_cfg_st	R			Do not map	Do not map	Do not map
40	BD	Lockout_hdw_st	lockout_hdw_st	R			Displays the status of the relay for the ABC's Lockout output.	Normal	Lockout
41	BD	LP_HDW_ST	low_press_hdw_st	R	Active (1)		Displays the status of the low pressure switch hardware input.	Open	Closed
42	BD	LS_HDW_ST	load_shed_hdw_st	R			Displays the status of the load shed hardware input.	Normal	Load Shed
43	BD	Network DH_c	network_dh_c	R/W	Inactive (0)		Allows for the network to enable/disable dehumidification.	Off	On
44	BD	Network G_c	network_g_c	R/W	Inactive (0)		Allows for network control of the fan.	Off	On
45	BD	Network O_c	network_o_c	R/W	Inactive (0)		Allows for network control of the reversing valve.	Off	On
46	BD	Network W_c	network_w_c	R/W	Inactive (0)		Allows for network control of electric heat output.	Off	On
47	BD	Network Y1_c	network_y1_c	R/W	Inactive (0)		Allows for network control of the Y1 output.	Off	On
48	BD	Network Y2_c	network_y2_c	R/W	Inactive (0)		Allows for network control of the Y2 output.	Off	On
49	BD	O_HDW_ST	o_hdw_occ_sensor_input_st	R			Displays the status of the "O" hardware input, also used as an occupancy sensor input.	Off	On
50	BD	Occ_Cmd_AV-MSV_Select_C	occ_cmd_av-msv_select_c	R/W	Inactive (0)		Allows for network selection of either a "MSV" or "AV" to command the occupancy input.	MSV	AV
51	BD	Reheat_CFG_st	reheat_cfg_st	R			Displays the status of the dip switch used to select reheat or non-reheat operation.	Reheat	Normal
52	BD	Rev Vlv Status_st	rev_vlv_st	R	Inactive (0)		Displays the status of the reversing valve output.	Heat	Cool
53	BD	RV_Setup_st	rv_setup_st	R			Displays the default position of reversing valve that is set by BD-13	Cooling	Heating
54	BD	Schedule Selector Command_c	schedule_selector_c	R/W	Inactive (0)		Allows for network selection of the internal schedule or external schedule.	Internal	External
55	BD	Zone_Temp_Selector_c	zone_temp_selector_c	R/W	Inactive (0)		Allows for network selection of the zone sensor input.	Sensor	BAS
56	BD	SW1_Test_CFG_st	sw1_test_cfg_st	R			Displays the status of the SW2 dip switch override point.	Off	On

N2 Points for Single Compressor WSHP cont..

Software Version 1.01 Utilizing the Aurora UPC Controller



Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
57	BD	SW_2_4_st	sw_2_4_st	R			Displays the status of the SW2-4 dipswitch, used along with SW2-5 to select the ACC-1 mode operation.	Off	On
58	BD	SW_2_5_st	sw_2_5_st	R			Displays the status of the SW2-5 dipswitch, used along with SW2-4 to select the ACC-1 mode operation.	Off	On
59	BD	Temp Occ Dis_c	temp_occ_dis_c	R/W	Active (1)		Allows for network control to disable temporary occupancy.	Disabled	Enabled
60	BD	TempOcc_st	temp_occ_st	R			Displays the status of the temporary occupancy input.	Normal	Temp Occ
61	BD	Test Mode Ena_c	test_mode_ena_c	R	Inactive (0)		Do not map	Do not map	Do not map
62	BD	Test Mode HDW_st	test_mode_hdw_st	R			Do not map	Do not map	Do not map
63	BD	W_HDW_ST	w_hdw_dirty_filter_input_st	R			Displays the status of the "W" hardware input, can also used as a dirty filter input.	Off	On
64	BD	Y1 Cmd_st	y1_cmd_st	R			Displays the status of the "Y1" input to the ABC from the UPC.	Off	On
65	BD	Y1 HDW st	y1_hdw_comp_proving_input_st	R			Displays the status of the "Y1" hardware input, used as a compressor proving input, may require additional hardware.	Off	On
66	BD	Y2 Cmd_st	y2_cmd_st	R			Displays the status of the "Y2" input to the ABC from the UPC.	Off	On
67	BD	Y2_HDW_ST	y2_hdw_vlv_end_sw_input_st	R			Displays the status of the "Y2" hardware input, used as a valve end switch input, may require additional hardware.	Off	On
68	BD	point name_c	m372_c	R	Inactive (0)		Do not map	Do not map	Do not map
69	BD	point name_c	m373_c	R	Inactive (0)		Do not map	Do not map	Do not map
70	BD	point name_c	m374_c	R	Inactive (0)		Do not map	Do not map	Do not map
71	BD	point name_c	m375_c	R	Inactive (0)		Do not map	Do not map	Do not map
72	BD	point name_c	m376_c	R	Inactive (0)		Do not map	Do not map	Do not map
73	BD	point name_c	m377_c	R	Inactive (0)		Do not map	Do not map	Do not map

N2 Points for Single Compressor WSHP cont..

Software Version 1.01 Utilizing the Aurora UPC Controller



Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
74	BD	EH2_Ovrd_c	eh2_ovrd_c	R/W	Inactive (0)		Allows for network control of the electric heat 2 output relay.	Off	On
75	BD	EH2 Mode_c	eh2_mode_c	R/W	Active (1)		Used to change the way in which the EH2 output from network controlled output to a aux heat output.	Aux_Heat	Network_EH
76	BD	LOADSHED_ST	loadshed_st	R			Displays the status of the load shed input.	Normal	Load Shed
Multi-State Values									
1	ADI	OccManCmd_c	occ_man_cmd_c	R/W	1		Use this point to command unit occupancy, verify that BV-50 is set to inactive (MSV).	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
7	ADI	Clg CFM Offset-MSV_c	clg_cfm_offset_msv_c	R/W	1		Allows for network selection of the cooling cfm reduction value.	[1 = HGT CFM = CLG CFM] [2 = -5% CLG CFM] [3 = -10% CLG CFM] [4 = -15% CLG CFM] [5 = +5% CLG CFM]	
8	ADI	Lockout_Enumerated_st	lockout_enumerated_st	R			Displays a specific alarm value that can be associated with the alarms table.	Refer to the alarms table	
9	ADI	Compressor Status_st	compressor_status_st	R			Displays the capacity of the compressor output relay.	[1 = Off] [2 = Low] [3 = High]	
10	ADI	EffectiveOccup_st	effect_occup_st	R			Displays the effective occupancy status.	[1 = Occupied] [2 = Unoccupied]	
11	ADI	Mode_of_Operation_st	mode_st	R			Displays the current operating mode of the unit.	[1 = Standby] [2 = Fan Only] [3 = Cool Stage 1] [4 = Cool Stage 2] [5 = Hot Gas Reheat] [6 = Heat Stage 1] [7 = Heat Stage 2] [8 = Emergency Heat] [9 = Auxiliary Heat] [10 = Emergency Shutdown] [11 = Load Shed] [12 = Unit In Lock Out] [13 = Test Mode]	

LonWorks SNVT List for Single Compressor WSHP

Software Version 1.01 Utilizing the Aurora UPC Controller



Program Id: 9000005000030401									
NV #	Object Type	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text
0	AV	105	nvoZoneTempAn	zone_temp_an	Output (active)		°F	Displays the zone temperature if sensor is present or if overridden by the BAS.	
1	AV	105	nviZoneTempAdjC	zone_temp_adj_c	Input (passive)	0	°F	Displays the zone temp adjust value, this is used to calibrate the zone sensor.	
2	AV	105	nvoActiveSetptAn	active_setpt_an	Output (active)		°F	Displays the set point that is controlling the call for the compressor.	
3	AV	105	nviZoneTempOvrnC	zone_temp_ovrd_c	Input (passive)	0	°F	Allows for the network to override the zone temp sensor reading if SNVT 52 is set to Active or (BAS).	
4	AV	105	nviOccClgSpC	occ_clg_sp_c	Input (passive)		°F	Displays and sets the occupied cooling set point.	
5	AV	105	nviOccHtgSpC	occ_htg_sp_c	Input (passive)		°F	Displays and sets the occupied heating set point.	
6	AV	105	nviUnoccClgSpC	unocc_clg_sp_c	Input (passive)		°F	Displays and sets the unoccupied cooling set point.	
7	AV	105	nviUnoccHtgSpC	unocc_htg_sp_c	Input (passive)		°F	Displays and sets the unoccupied heating set point.	
8	AV	105	nviStandbyCoolC	standby_cool_c	Input (passive)	76	°F	Displays and sets the standby cooling set point.	
9	AV	105	nviStandbyHeatC	standby_heat_c	Input (passive)	68	°F	Displays and sets the standby heating set point.	
10	AV	105	nvoEffClgSpAn	eff_clg_sp_an	Output (Active)		°F	Displays the effective cooling set point.	
11	AV	105	nvoEffHtgSpAn	eff_htg_sp_an	Output (Active)		°F	Displays the effective heating set point.	
12	AV	105	nviRemSetptSpanC	rem_setpt_span_c	Input (passive)	5	°F	Allows for the network to set the warm/cool adjust control value.	
13	AV	81	nvoHumidityAn	humidity_an	Output (active)		%rh	Displays the humidity sensor reading if sensor is present.	
14	AV	81	nviHumidityC	humidity_c	Input (passive)	0	%rh	Allows for the network to override the humidity input if no sensor is connected.	
15	AV	81	nviOccDehumSetpt	occ_dehum_setpt_c	Input (passive)	53	%	Allows for the network to adjust the occupied dehumidify set point.	
16	AV	29	nvoCo2An	co2_an	Output (active)		ppm	Displays the space CO ₂ reading if sensor is present.	
17	AV	29	nvoVocAn	voc_an	Output (active)		ppm	Displays the space voc (volatile organic compounds) if sensor is present.	

LonWorks SNVT List for Single Compressor WSHP cont..

Software Version 1.01 Utilizing the Aurora UPC Controller



NV #	Object Type	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text	
18	AV	105	nviOatC	oat_c	Input (passive)	0	°F	Allows for network override of the outside side air temperature.		
19	AV	105	nvoAbcLatAn	abc_lat_an	Output (active)		°F	Displays the leaving air temperature.		
20	AV	105	nvoCoaxTempAn	coax_temp_an	Output (active)		°F	Displays the coax temperature read by the FP1 sensor.		
21	AV	105	nvoFp1SetpointAn	fp1_setpoint_an	Output (active)		°F	Displays the FP1 freeze detection limit temperature (coax temp).		
22	AV	81	nvoEcmPwmAn	ecm_pwm_an	Output (active)		%	Displays the current ECM blower operating percentage.		
23	AV	9	nviEcmOverrideC	ecm_override_c	Input (passive)	0	no units	Allows network to override the ecm blower, select from virtual switches 1-12, writing to this point will override all fan speeds.		
24	AV	9	nvoLockoutsEnume	lockouts_enumerated_an	Output (active)		no units	Displays the current lock-out alarm value, refer to the alarms table for a description.		
25	AV	9	nviAcc1DelayC	acc1_delay_c	Input (passive)	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output when the output is set for slow opening water valve.		
26	BV	95	nvoAcc1St	acc1_st	Output (active)			Displays the status of the ACC-1 output, this output is configured using the ABC dipswitches.	Off	On
27	BV	95	nvoAlarmResetCmd	alarm_reset_cmd_st	Output (active)			Displays the commanded status of the alarm reset command.	Off	On
28	BV	95	nviAlarmResetC	alarm_reset_c	Input (passive)	0		Allows for the network to command the alarm reset, to clear the alarm command to "ON" then Back to "OFF".	Off	On
29	BV	95	nviAuxHeatEnaC	aux_heat_ena_c	Output (active)			Allows for the network to select how the electric heat output 1 is controlled, if set to Aux heat the P.I.D. loop will enable and disable the output.	Network EH	Aux Heat
30	BV	95	nvoDehumHdwSt	dehum_hdw_st	Output (active)			Displays the status of the DH hardware input.	Off	On
31	BV	95	nvoEh1St	eh_1_st	Output (active)			Displays the status of the electric heat 1 output.	Off	On
32	BV	95	nvoEh2St	eh_2_st	Input (passive)	0		Displays the status of the electric heat 2 output.	Off	On
33	BV	95	nviEStopC	e_stop_c	Output (active)			Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown

LonWorks SNVT List for Single Compressor WSHP cont..

Software Version 1.01 Utilizing the Aurora UPC Controller



NV #	Object Type	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text	
34	BV	95	nvoEsHdwSt	es_hdw_st	Input (passive)	1		Displays the status of the emergency shutdown hardware input.	Normal	Shutdown
35	BV	95	nviFanOperationC	fan_operation_c	Output (active)			Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
36	BV	95	nvoFanSt	fan_st	Input (passive)	0		Displays the current status of the fan output.	Off	On
37	BV	95	nviEh1OvrdC	eh1_ovrd_c	Output (active)			Allows for network control of electric heat 1 output relay if BV-6 is set to "network".	Off	On
38	BV	95	nvoGHdwFanProvin	g_hdw_fan_proving_input_st	Output (active)			Displays the status of the "G" hardware input, this is used as a fan proving input.	Off	On
39	BV	95	nvoInternalExter	internal_external_scheduling_st	Input (passive)	0		Displays the selected schedule that the UPC is operating on.	Internal	External
40	BV	95	nviLoadShedC	load_shed_c	Output (active)			Allows for the network to enable/disable load shed.	Off	On
41	BV	95	nvoAlmRhtHdwSt	Lockout_HDW_st	Output (active)			Displays the status of the relay for the ABC's Lockout output.	Normal	Lockout
42	BV	95	nvoLoadShedHdwSt	load_shed_hdw_st	Input (passive)	0		Displays the status of the load shed hardware input.	Normal	Load Shed
43	BV	95	nviNetworkDhC	network_dh_c	Input (passive)	0		Allows for the network to enable/disable dehumidification.	Off	On
44	BV	95	nviNetworkGC	network_g_c	Input (passive)	0		Allows for network control of the fan.	Off	On
45	BV	95	nviNetworkOC	network_o_c	Input (passive)	0		Allows for network control of the reversing valve.	Off	On
46	BV	95	nviNetworkWC	network_w_c	Input (passive)	0		Allows for network control of electric heat output.	Off	On
47	BV	95	nviNetworkY1C	network_y1_c	Input (passive)	0		Allows for network control of the Y1 output.	Off	On
48	BV	95	nviNetworkY2C	network_y2_c	Output (active)			Allows for network control of the Y2 output.	Off	On
49	BV	95	nvoOHdwOccSensor	o_hdw_occ_sensor_input_st	Output (active)			Displays the status of the "O" hardware input, also used as an occupancy sensor input.	Off	On

LonWorks SNVT List for Single Compressor WSHP cont..

Software Version 1.01 Utilizing the Aurora UPC Controller



NV #	Object Type	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text	
50	BV	95	nvoRevVlvSt	rev_vlv_st	Input (passive)	0		Displays the status of the reversing valve output.	Heat	Cool
51	BV	95	nviScheduleSelec	schedule_selector_c	Input (passive)	0		Allows for network selection of the internal schedule or external schedule.	Internal	External
52	BV	95	nviZoneTempSelec	zone_temp_selector_c	Input (passive)	1		Allows for network selection of the zone sensor input.	Sensor	BAS
53	BV	95	nviTempOccDisC	temp_occ_dis_c	Output (active)			Allows for network control to disable temporary occupancy.	Disabled	Enabled
54	BV	95	nvoTempOccSt	temp_occ_st	Output (active)			Displays the status of the temporary occupancy input.	Normal	Temp Occ
55	BV	95	nvoWHdwDirtyFilt	w_hdw_dirty_filter_input_st	Output (active)			Displays the status of the "W" hardware input, can also used as a dirty filter input.	Off	On
56	BV	95	nvoY1HdwCompProv	y1_hdw_comp_proving_input_st	Output (active)			Displays the status of the "Y1" hardware input, used as a compressor proving input, may require additional hardware.	Off	On
57	BV	95	nvoY2HdwVlvEndSw	y2_hdw_vlv_end_sw_input_st	Input (passive)	0		Displays the status of the "Y2" hardware input, used as a valve end switch input, may require additional hardware.	Off	On
58	BV	9	nviEh2OvrnC	eh2_ovrd_c	Input (passive)	1		Allows for network control of the electric heat 2 output relay.	Off	On
59	MSV	9	nviOccManCmdC	OccManCmd_c	Output (active)			Use this point to command unit occupancy, verify that BV-50 is set to inactive (MSV).	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
60	MSV	9	nvoCompressorSta	compressor_status_st	Output (active)			Displays the capacity of the compressor output relay.	[1 = Off] [2 = Low] [3 = High]	
61	MSV	9	nvoEffectOccupSt	effect_occup_st	Output (active)			Displays the effective occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
62	MSV	9	nvoModeSt	mode_st	Output (active)			Displays the current operating mode of the unit.	[1 = Standby] [2 = Fan Only] [3 = Cool Stage 1] [4 = Cool Stage 2] [5 = Hot Gas Reheat] [6 = Heat Stage 1] [7 = Heat Stage 2] [8 = Emergency Heat] [9 = Auxiliary Heat] [10 = Emergency Shutdown] [11 = Load Shed] [12 = Unit In Lock Out] [13 = Test Mode]	

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