

AURORA

Aurora Universal Protocol Converter (UPC)

N2 Points List For Dual Compressor WSHP

Software Version 1.01 Utilizing the Aurora UPC Controller

Aurora UPC N2 Points List For Dual Compressor

N2 Points for Dual Compressor WSHP

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Object ID	Object Type	Display Name <small>*=Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
1	ADF	ABC FW BETA_an_A	abc_fw_beta_an_a	R		no units	Do Not Map to BAS.		
2	ADF	ABC FW BETA_an_B	abc_fw_beta_an_b	R		no units	Do Not Map to BAS.		
3	ADF	ABC FW Rev_an_A	abc_fw_rev_an_a	R		no units	Do Not Map to BAS.		
4	ADF	ABC FW Rev_an_B	abc_fw_rev_an_b	R		no units	Do Not Map to BAS.		
5	ADF	ABC_LAT_an_A	abc_lat_an_a	R		°F	Displays the leaving air temperature that is connected to the FP2 input on ABC A.		
6	ADF	Acc1 Delay_c_A	acc1_delay_c_a	R/W	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output on circuit A.		
7	ADF	Acc1 Delay_c_B	acc1_delay_c_b	R/W	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output on circuit B.		
8	ADF	ActiveSetPt_an	active_setpt_an	R		°F	Displays the set point that is controlling the call for the compressor.		
9	ADF	*Aux_Current_an_A	aux_current_an_a	R		A	Displays the amp draw for the Auxiliary output on circuit A or B if the AXB and sensing hardware is present.		
10	ADF	*Aux_Current_an_B	aux_current_an_b	R		A			
11	ADF	*Aux_Output_Pwr_an_A	aux_output_pwr_an_a	R		W	Displays the watt usage for Auxiliary output on circuit A or B if the AXB and sensing hardware is present.		
12	ADF	*Aux_Output_Pwr_an_B	aux_output_pwr_an_b	R		W			
13	ADF	*AXB Spare Analog Input_an_A	axb_spare_ana_input_an_a	R		°F	Displays the Spare Analog output value located on the AXB for circuit A or B.		
14	ADF	*AXB Spare Analog Input_an_B	axb_spare_ana_input_an_b	R		°F			
15	ADF	*AXB_PWM_High Output_c_A	axb_pwm_high_c_a	R/W	100	%	Commandable point that allows for the PWM output on AXB A or B to controlled.		
16	ADF	*AXB_PWM_High Output_c_B	axb_pwm_high_c_b	R/W	100	%			
17	ADF	*AXB_LAT_an_A	axb_lat_an_a	R		°F	Displays the value of the sensor connected to the leaving air temperature input on the AXB Board A or B is sensing hardware and AXB is present.		
18	ADF	*AXB_LAT_an_B	axb_lat_an_b	R		°F			
19	ADF	*AXB_PWM_Low_output_c_A	axb_pwm_low_c_a	R/W	75	%	Commandable point that allows for the PWM output on the AXB A or B to controlled thru the BAS the AXB is present.		
20	ADF	*AXB_PWM_Low_output_c_B	axb_pwm_low_c_b	R/W	75	%			
21	ADF	Blower_Off_Adjust_c	blower_off_adjust_c	R/W	30	seconds	Commandable point allows for adjustment of the time that the blower stays on after the compressor shuts off if the blower is set for cycled operation.		
22	ADF	*Circuit_A_EER_an	circuit_a_eer_an	R		no units	Displays the EER calculation of circuit A or B if the AXB and sensing hardware are present		
23	ADF	*Circuit_B_EER_an	circuit_b_eer_an	R		no units			
24	ADF	*Clg_Subcooling_an_A	clg_subcooling_an_a	R		°F	Displays the sub cooling calculation of circuit A or B if the AXB and sensing hardware are present		
25	ADF	*Clg_Subcooling_an_B	clg_subcooling_an_b	R		°F			
26	ADF	CO2_an	co2_an	R		ppm	Displays the CO2 value if the zones sensor is equipped with the sensor.		
27	ADF	CO2_c	co2_c	R/W	0	ppm	Allows for the BAS to write the CO2 value to the UPC if desired.		
28	ADF	Coax Temp_an_A	coax_temp_an_a	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit A on ABC A.		
29	ADF	Coax Temp_an_B	coax_temp_an_b	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit B on ABC B.		
30	ADF	*Coefficient_Of_Performance_an_A	coefficient_of_performance_an_a	R		no units	Displays the calculated C.O.P of circuit A or B if the AXB and sensing hardware is present.		
31	ADF	*Coefficient_Of_Performance_an_B	coefficient_of_performance_an_b	R		no units			
32	ADF	*Combined_HE_HR_Total_an	combined_he_hr_total_an	R		Btu/hr	Displays the heat of extraction and heat of rejection calculation of both circuits if the AXB and sensing hardware is present.		
33	ADF	*Combined_Total_Capacity_an	combined_total_capacity_an	R		Btu/hr	Calculates and displays the combined capacity of both circuits if both AXB's and sensing hardware is present.		

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Object ID	Object Type	Display Name <small>*Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
34	ADF	*Combined_Total_Power_an	combined_total_power_an	R		W	Calculates and displays the combined total power of both circuits if both AXB's and sensing hardware is present.		
35	ADF	*Compressor Power_an_A	compressor_power_an_a	R		W	Calculates and displays the compressor power of circuit A or B if the AXB and sensing hardware is present.		
36	ADF	*Compressor Power_an_B	compressor_power_an_b	R		W			
37	ADF	*Compressor_1_Current_an_A	compressor_1_current_an_a	R		A	Displays the compressor amp draw on L1 or L2 on circuit A or B if the AXB and sensing hardware is present.		
38	ADF	*Compressor_2_Current_an_B	compressor_2_current_an_b	R		A			
39	ADF	*Comp_1_Current_an_A	comp_1_current_an_a	R		A	Displays the compressor amp draw on L1 or L2 on circuit A or B if the AXB and sensing hardware is present.		
40	ADF	*Comp_2_Current_an_B	comp_2_current_an_b	R		A			
41	ADF	*Condensor_Temp_an_A	condensor_temp_an_a	R		°F	Displays the condensor temperature for circuit A or B if the AXB and sensing hardware is present.		
42	ADF	*Condensor_Temp_an_B	condensor_temp_an_b	R		°F			
43	ADF	Control Voltage_an_A	control_voltage_an_a	R		V	Displays the low voltage circuit value that is powering the ABC A and B.		
44	ADF	Control Voltage_an_B	control_voltage_an_b	R		V			
45	ADF	Dehum_Diff_c	dehum_diff_c	R/W	5	%rh	Allows for adjustment of the dehumidify dead band value, default value is 5%rh.		
46	ADF	*Discharge_Line_Temp_an_A	discharge_line_temp_an_a	R		°F	Displays the discharge line temperature for circuit A or B if the AXB and sensing hardware is present.		
47	ADF	*Discharge_Line_Temp_an_B	discharge_line_temp_an_b	R		°F			
48	ADF	*Dischg Press_an_A	dischg_press_an_a	R		psi	Displays the discharge line pressure for circuit A or B if the AXB A and sensing hardware is present.		
49	ADF	*Dischg Press_an_B	dischg_press_an_b	R		psi			
50	ADF	*Dom_Hot_Wtr_an_A	dom_hot_wtr_an_a	R		°F	Do Not Map to BAS.		
51	ADF	*Dom_Hot_Wtr_an_B	dom_hot_wtr_an_b	R		°F	Do Not Map to BAS.		
52	ADF	Econo_Sample_an	econo_sample_an	R/W	90	seconds	Allows for the adjustment of economizer sample timer that is used to check economizer water temperatures when equipped with hardware.		
53	ADF	Economizer Setpt_c	economizer_setpt_c	R/W	45	°F	Allows for adjustment of the economizer set point value.		
54	ADF	Economizer Water Temp_an	economizer_water_temp_an	R		°F	Displays the economizer water temperature that is being read if the hardware is present.		
55	ADF	EffOccupy_An	eff_occ_an	R		no units	Displays the effective occupancy of the unit.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby] [5 = Occ Sensor]	[2 [3 [4 = [5 =
56	ADF	Est_Line_Voltage_an_A	est_line_voltage_an_a	R		V	Displays the estimated line voltage to the unit, this can be calibrated using point ADF-84.		
57	ADF	Est_Line_Voltage_an_B	est_line_voltage_an_b	R		V			
58	ADF	*EWT_an_A	entering_wtr_temp_an_a	R		°F	Displays the value of the EWT input if AXB A or B and the sensing hardware is present.		
59	ADF	*EWT_an_B	entering_wtr_temp_an_b	R		°F			
60	ADF	Factory DipSw OvrD_C_A	factory_dip_sw_ovrd_c_a	R/W	32767	no units	Do Not Map to BAS.		
61	ADF	Factory DipSw OvrD_C_B	factory_dip_sw_ovrd_c_b	R/W	32767	no units	Do Not Map to BAS.		
62	ADF	*Fan Current_an_A	fan_current_an_a	R		A	Displays the amp draw of the fan when AXB A or B and sensing hardware is present.		
63	ADF	*Fan Current_an_B	fan_current_an_b	R		A			
64	ADF	*Fan Power_an_A	fan_power_an_a	R		W	Displays the fan power for circuit A or B if AXB and sensing hardware is present.		
65	ADF	*Fan Power_an_B	fan_power_an_b	R		W			
66	ADF	Filter_Alarm_Hours	filter_alarm_hours_c	R/W	1000	no units	Allows for adjustment to the filter alarm hours, adjust this value to set the number of fan run hours.		

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								Inactive = 0	Active = 1
67	ADF	Filter_Hours	filter_hours_an	R		hr	Displays the number of fan run hours since the last filter alarm reset.		
68	ADF	Fp1 Setpt_an_A	fp1_setpoint_an_a	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit A.		
69	ADF	Fp1 Setpt_an_B	fp1_setpoint_an_b	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit B.		
70	ADF	*HE/HR_an_A	he_hr_an_a	R		Btu/hr	Calculates and displays the heat of rejection and heat of extraction for circuit A or B if the AXB A and sensing hardware is present.		
71	ADF	*HE/HR_an_B	he_hr_an_b	R		Btu/hr			
72	ADF	*Hgt_Subcooling_an_A	hgt_subcooling_an_a	R		°F	Calculates and displays the sub cooling value for circuit A or B when operating in heating if the AXB A and sensing hardware is present.		
73	ADF	*Hgt_Subcooling_an_B	hgt_subcooling_an_b	R		°F			
74	ADF	Humidity_an	humidity_an	R		%rh	Displays the humidity value if the zone sensor is equipped with humidity sensor.		
75	ADF	Humidity_c	humidity_c	R/W	0	%rh	Allows for the BAS to override the space humidity value if desired.		
76	ADF	*Liq Line Temp_an_A	liq_line_temp_an_a	R		°F	Displays the heating liquid line temperature for circuit A or B if the AXB and sensing hardware is present.		
77	ADF	*Liq Line Temp_an_B	liq_line_temp_an_b	R		°F			
78	ADF	Lockouts Enum an_A	lockouts_enumerated_an_a	R		no units	Displays alarm values for ABC A or B, refer to the dual compressor alarms table "AV" column for a list of enumerated alarm descriptions.		
79	ADF	Lockouts Enum an_B	lockouts_enumerated_an_b	R		no units			
80	ADF	*Loop_Pressure_an_A	loop_pressure_an_a	R		psi	Displays the loop pressure for circuit A or B if the AXB and sensing hardware is present.		
81	ADF	*Loop_Pressure_an_B	loop_pressure_an_b	R		psi			
82	ADF	*LWT_an_A	lvg_wtr_temp_an_a	R		°F	Displays the value of the LWT Input on circuit A or B if the AXB and sensing hardware is present.		
83	ADF	*LWT_an_B	lvg_wtr_temp_an_b	R		°F			
84	ADF	Measured_Line_Voltage_c	measured_line_voltage_c	R/W	230	V	Allows for calibration of the line voltage reading, measure the incoming line voltage using a volt meter and enter the value here, this is used to improve the accuracy of the performance monitoring.		
85	ADF	Mode_st_an	mode_st_an	R		no units	Displays the operational mode of the unit, refer to the mode of operations table for a list of modes.		
86	ADF	Network_Loop_Temp_c	network_loop_temp_c	R/W	0	°F	Allows for the BAS to write the loop temperature value that is used in the economizer portion of the control program, BD-49 must be set to "Network" or "Active" for this override to work.		
87	ADF	OAT_an	oat_an	R		°F	Displays the outdoor air temperature if the BAS is sending a value to ADF-88.		
88	ADF	OAT_c	oat_c	R/W	0	°F	Allows for the BAS to write the outdoor air temperature to the UPC, this temperature is not used in the control strategy.		
89	ADF	OccDehumSetpt_c	occ_dehum_setpt_c	R/W	53	%rh	Allows for the adjustment of the occupied dehumidify set point, if the unit is not equipped reheat this value will have no effect on the units operation.		
90	ADF	OccManCmd_c	occ_man_cmd_an_c	R/W	1	no units	Allows for the BAS to command the occupancy of the unit if BD-96 is set for "AV" or "Active". If BD-96 is not set for Active or AV then commands to this ADF will be ignored.		
91	ADF	Rem Setpt Span_c	rem_setpt_span_c	R/W	5	°F	Allows for adjustment to the space temperature set point span, the span is the amount adjustment the zone sensor can influence the effective set points.		
92	ADF	*SAT_Evap_Temp_an_A	sat_evap_temp_an_a	R		°F	Displays the saturated evaporator temperature for circuit A or B if the AXB and sensing hardware is present.		
93	ADF	*SAT_Evap_Temp_an_B	sat_evap_temp_an_b	R		°F			
94	ADF	Setpoint	clg_adj_an	R/W		°F	Displays and allows for the adjustment of the effective cooling set point, this point is the same as adjusting the zone sensor's temp offset.		
95	ADF	Setpoint	eff_clg_sp_an	R/W		°F	Displays the effective cooling set point.		
96	ADF	Setpoint	eff_htg_sp_an	R/W		°F	Displays the effective heating set point.		
97	ADF	Setpoint	htg_adj_an	R/W		°F	Displays and allows for the adjustment of the effective heating set point, this point is the same as adjusting the zone sensor's temp offset.		

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Object ID	Object Type	Display Name <small>*=Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
98	ADF	Setpoint	occ_clg_sp_c	R/W		°F	Displays and sets the occupied cooling set point.		
99	ADF	Setpoint	occ_htg_sp_c	R/W		°F	Displays and sets the occupied heating set point.		
100	ADF	Setpoint	unocc_clg_sp_c	R/W		°F	Displays and sets the unoccupied cooling set point.		
101	ADF	Setpoint	unocc_htg_sp_c	R/W		°F	Displays and sets the unoccupied heating set point.		
102	ADF	Standby_Cool_c	standby_cool_c	R/W	76	°F	Displays and sets the standby cooling set point.		
103	ADF	Standby_Heat_c	standby_heat_c	R/W	68	°F	Displays and sets the standby heating set point.		
104	ADF	*Suct Press_an_A	suction_press_an_a	R		psi	Displays the suction pressure of circuit A or B if AXB and sensing hardware is present.		
105	ADF	*Suct Press_an_B	suction_press_an_b	R		psi			
106	ADF	*Suct Temp_an_A	suct_temp_an_a	R		°F	Displays the suction temperature of circuit A or B if AXB and sensing hardware is present.		
107	ADF	*Suct Temp_an_B	suct_temp_an_b	R		°F			
108	ADF	*SuperHeat_an_A	super_heat_an_a	R		°F	Displays the super heat of circuit A or B if AXB and sensing hardware is present.		
109	ADF	*SuperHeat_an_B	super_heat_an_b	R		°F			
110	ADF	SW Part No_an_A	sw_part_no_an_a	R		no units	Do Not Map to BAS.		
111	ADF	SW Part No_an_B	sw_part_no_an_b	R		no units	Do Not Map to BAS.		
112	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.		
113	ADF	Test Md Pwd_c	test_md_pwd_c	R/W	0	no units	Do Not Map to BAS.		
114	ADF	*Total Capacity_an_A	total_capacity_an_a	R		Btu/hr	Displays the calculated value for circuit A or B's total capacity if the AXB and sensing hardware is present.		
115	ADF	*Total Capacity_an_B	total_capacity_an_b	R		Btu/hr			
116	ADF	*Total Power_an_A	total_power_an_a	R		W	Displays the calculated total watt usage for circuit A or B if the AXB and sensing hardware is present.		
117	ADF	*Total Power_an_B	total_power_an_b	R		W			
118	ADF	*Total_Amps_an_A	total_amps_an_a	R		A	Displays the calculated total amp draw for circuit A or B if the AXB and sensing hardware is present.		
119	ADF	*Total_Amps_an_B	total_amps_an_b	R		A			
120	ADF	Tstat Ovrdr_c	tstat_ovrd_c	R/W	0	no units	Do Not Map to BAS.		
121	ADF	*Universal_Input_an_A	universal_input_an_a	R		no units	Displays the raw count value of the universal input if the AXB and sensing hardware is present.		
122	ADF	*Universal_Input_an_B	universal_input_an_b	R		no units			
123	ADF	Unnoc Dehum Setpt_c	unocc_dehum_setpt_c	R/W	75	%rh	Allows for the unoccupied dehumidify set point to be adjusted from the BAS.		
124	ADF	*Variable Speed pump output_an_A	var_spd_pmp_output_an_a	R		%	Displays the operating % of the output for circuit A or B if the AXB and sensing hardware is present.		
125	ADF	*Variable Speed pump output_an_B	var_spd_pmp_output_an_b	R		%			
128	ADF	*Water Flow_an_A	water_flow_an_a	R		gpm	Displays the GPM flow rate of circuit A or B if the AXB and sensing hardware is present.		
129	ADF	*Water Flow_an_B	water_flow_an_b	R		gpm			
130	ADF	Zone_Temp_Ovrdr_c	zone_temp_ovrd_c	R/W	0	°F	Allows for the Zone Temp to be overridden by the BAS if necessary, you must command BD-124 to "Active or BAS" before the override will work.		
131	ADF	ZoneTemp_an	zone_temp_an	R		°F	Displays the Zone Temp as read by the zone sensors, if more than one sensor is used the temperatures will be averaged within the UPC and average is displayed.		
132	ADF	ZoneTmpAdj_c	zone_temp_adj_c	R/W	0	°F	Displays and allows for the zone temperature reading on the BAS to be adjusted, this is used to calibrate the value displayed at BAS. The Aurora Touch Interface is used to calibrate the sensors display and BAS reading.		
133	ADF	AXB_AO1_c_A	axb_ao1_c_a	R/W	0	%	Used to command the analog output 1 on AXB "A".		
134	ADF	AXB_AO1_c_B	axb_ao1_c_b	R/W	0	%	Used to command the analog output 1 on AXB "B".		

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Object ID	Object Type	Display Name <small>*Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
<i>Note - "*" Requires AXB</i>			<i>Binary Values</i>					Inactive = 0	Active = 1
1	BD	ABC Modbus Comm Alarm_st_A	abc_modbus_comm_alarm_st_a	R			Displays the status of the Modbus communication between the ABC A and the UPC.	Communication Normal	Communication Lost
2	BD	ABC Modbus Comm Alarm_st_B	abc_modbus_comm_alarm_st_b	R			Displays the status of the Modbus communication between the ABC B and the UPC.	Communication Normal	Communication Lost
3	BD	Acc 1 Status_st_A	acc1_st_a	R			Displays the status of the ACC-1 output on ABC A, this output will always energize 90 seconds before the compressor contactor is energized.	Off	On
4	BD	Acc 1 Status_st_B	acc1_st_b	R			Displays the status of the ACC-1 output circuit B, this output is configured using the ABC B dipswitches.	Off	On
5	BD	Add Device Enable_c	add_device_enable_c	R/W	Inactive (0)		Used to add communicating devices to the Aurora Control Boards.	Off	On
6	BD	Alarm Reset Command_st	alarm_reset_cmd_st	R			Displays the commanded status of the alarm reset command.	Off	On
7	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"	Off	On
8	BD	ALM_RHt_HDW_st_A	alm_rht_hdw_st_a	R			Displays the status of the ABC A or B's alarm/reheat output. If configured with reheat, this output will show Active(ON) when the unit is operating in the reheat mode.	Off	On
9	BD	ALM_RHt_HDW_st_B	alm_rht_hdw_st_b	R				Off	On
10	BD	Aux Heat Command_st	aux_heat_cmd_st	R			Displays the status of the aux heat command.	Off	On
11	BD	Aux_Heat_Ena_c	aux_heat_ena_c	R/W	Active (1)		Allows for the network to select how the E.H.-1 output is controlled, if set to Aux heat the P.I.D. loop will enable and disable the output.	Network EH	Aux Heat
12	BD	AXB Enable_c_A	axb_enable_c_a	R/W	Inactive (0)		Used along with BV-5 to add the AXB to either ABC A or B. AXB hardware needs to present to prevent nuisance alarms.	No AXB	AXB Present
13	BD	AXB Enable_c_B	axb_enable_c_b	R/W	Inactive (0)			No AXB	AXB Present
14	BD	*Brine_Selection_c	brine_selection_c	R/W	Inactive (0)		Allows for the selection of the anti-freeze concentration for the use of performance monitoring calculations only.	Water	Anti-Freeze
15	BD	CC_Op_Cfg_st_A	cc_op_cfg_st_a	R			Do Not Map to BAS.	Do Not Map	Do Not Map
16	BD	CC_Op_Cfg_st_B	cc_op_cfg_st_b	R			Do Not Map to BAS.	Do Not Map	Do Not Map
17	BD	Clear Faults_c	clear_faults_c	R/W	Inactive (0)		Do Not Map to BAS.	Do Not Map	Do Not Map
18	BD	Compr Hi Capy Status_st_A	high_capacity_st_a	R			Do Not Map to BAS.	Do Not Map	Do Not Map
20	BD	Compressor Status_st_A	compressor_st_a	R			Displays the status of the ABC A or B's output for the compressor operation.	Off	On
21	BD	Compressor Status_st_B	compressor_st_b	R				Off	On
22	BD	Condensate_st_A	condensate_st_a	R			Displays the status of the condensate input on ABC A or B.	Normal	Alarm
23	BD	Condensate_st_B	condensate_st_b	R				Normal	Alarm
24	BD	D SW1_c_A	sw2_1_c_a	R/W	Inactive (0)		Used to select the position of dip SW1-1 on ABC A which selects the freeze detection set point.	15°	30°
26	BD	D SW2_c_A	sw2_2_c_a	R/W	Active (1)		Do Not Map To BAS.	Do Not Map	Do Not Map
27	BD	D SW2_c_B	sw2_2_c_b	R/W	Active (1)		Do Not Map To BAS.	Do Not Map	Do Not Map

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Object ID	Object Type	Display Name <small>*=Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
28	BD	D SW3_c_A	sw2_3_c_a	R/W	Active (1)		Used to select the position of dip SW1-3 on ABC A, this selects the default position of the reversing valve.	Cooling	Heating
29	BD	D SW3_c_B	sw2_3_c_b	R/W	Active (1)		Used to select the position of dip SW1-3 on ABC B, this selects the default position of the reversing valve.	Cooling	Heating
30	BD	D SW4_c_A	sw2_4_c_a	R/W	*Factory Set		Will have no effect of the Acc 1 Output on ABC A. This output is energized 90 seconds before the compressor.	Slow Opening Water Valve	
31	BD	D SW4_c_B	sw2_4_c_b	R/W	Active (1)		Used along with Dip SW1-5 on ABC B to select the operation of the ACC1 output for circuit B.	Refer to DIP Switch settings table for explanation on how to set these switches.	
32	BD	D SW5_c_A	sw2_5_c_a	R/W	*Factory Set		Will have no effect of the Acc 1 Output on ABC A. This output is energized 90 seconds before the compressor.	Slow Opening Water Valve	
33	BD	D SW5_c_B	sw2_5_c_b	R/W	Inactive (0)		Used along with Dip SW1-4 on ABC B to select the operation of the ACC1 output for circuit B.	Refer to DIP Switch settings table for explanation on how to set these switches.	
34	BD	D SW6_c_A	sw2_6_c_a	R/W	Inactive (0)		Used to select the position of dip SW1-6 on ABC A which selects dual capacity or single capacity operation.	Not Used	Not Used
35	BD	D SW6_c_B	sw2_6_c_b	R/W	Inactive (0)		Used to select the position of dip SW1-6 on ABC B which selects dual capacity or single capacity operation.	Not Used	Not Used
36	BD	D SW7_c_A	sw2_7_c_a	R/W	Active (1)		Used to select the position of dip SW1-7 which selects a pulsed or continuous signal for the Alarm Output.	Pulsed	Continuous
37	BD	D SW7_c_B	sw2_7_c_b	R/W	Active (1)		Used to select the position of dip SW1-7 which selects a pulsed or continuous signal for the Alarm Output.	Pulsed	Continuous
38	BD	D SW8_c_A	sw2-8_c_a	R/W	Active (1)		Used to select the position of dip SW1-8 which is factory set for either reheat or normal operation.	Reheat	Normal
39	BD	D SW8_c_B	sw2-8_c_b	R/W	Active (1)		Used to select the position of dip SW1-8 which is factory set for either reheat or normal operation.	Reheat	Normal
40	BD	Dehumidification Command_st	dh_cmd_st	R			Displays the status of the dehumidification command.	Off	On
41	BD	DH Disable_c	dh_disable_c	R/W	Inactive (0)		Allows for the network to enable/disable Dehumidification.	DH Disabled	DH Enabled
42	BD	DH_HDW_st_A	dehum_hdw_st_a	R			Displays the status of DH hardware input on ABC A or B.	Off	On
43	BD	DH_HDW_st_B	dehum_hdw_st_b	R				Off	On
44	BD	Dip Sw Ovr Ena_c_A	dip_sw_ovrd_ena_c_a	R/W	Inactive (0)		Used to enable the BAS write privileges for dip switch overrides on ABC A or B, Overrides are BD-24 thru BD-39.	Off	On
45	BD	Dip Sw Ovr Ena_c_B	dip_sw_ovrd_ena_c_b	R/W	Inactive (0)			Off	On
46	BD	Dip Switch Ovr Release_c_A	dipswitchovrdrelease_c_a	R/W	Inactive (0)			Used to release the dip switch overrides made on BD-24 thru BD-39	Off
47	BD	Dip Switch Ovr Release_c_B	dipswitchovrdrelease_c_b	R/W	Inactive (0)		Off		On
48	BD	Dirty_Filter_Alarm_st	dirty_filter_alarm_st	R			Displays alarm associated with the dirty filter timer.	Normal	Change Filter
49	BD	Economizer_Ena_c	economizer_ena_c	R/W	Inactive (0)		Allows for the network to enable the economizer control feature of the program.	Disabled	Enabled
50	BD	EH_1_st	eh_1_st	R			Displays the status of the E.H.-1 output on ABC A.	Off	On
51	BD	EH_3_st	eh_3_st	R			Displays the status of the E.H.-3 output on ABC B.	Off	On

N2 Points for Dual Compressor WSHP cont.

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Object ID	Object Type	Display Name <small>**Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
53	BD	EH2 Mode_c	eh2_mode_c	R/W	Active (1)		Allows for the network to select how the E.H.-2 output is controlled, if set to Aux heat the P.I.D. loop will enable and disable the output.	Aux Heat	Network EH
54	BD	EH_2_St	eh_2_st	R			Displays the status of the E.H.-2 output on ABC A.	Off	On
55	BD	EH_4_St	eh_4_st	R			Displays the status of the E.H.-4 output on ABC B.	Off	On
56	BD	EH2_Ovrd_c	eh2_ovrd_c	R/W	Inactive (0)		Allows for network to command E.H.-2 output relay on ABC A if BD-53 is set to active or network.	Off	On
57	BD	EH3 Mode_c	eh3_mode_c	R/W	Active (1)		Allows for the network to select how the E.H.-3 output is controlled, if set to Aux heat the P.I.D. loop will enable and disable the output.	Aux Heat	Network EH
58	BD	EH3_Ovrd_c	eh3_ovrd_c	R/W	Inactive (0)		Allows for network to command E.H.-3 output relay on ABC B if BD-57 is set to active or network.	Off	On
59	BD	EH4 Mode_c	eh4_mode_c	R/W	Active (1)		Allows for the network to select how the E.H.-4 output is controlled, if set to Aux heat the P.I.D. loop will enable and disable the output.	Aux Heat	Network EH
60	BD	EH4_Ovrd_c	eh4_ovrd_c	R/W	Inactive (0)		Allows for network to command E.H.-4 output relay on ABC B if BD-59 is set to active or network.	Off	On
61	BD	Emgcy Shutdn_c	e_stop_c	R/W	Inactive (0)		Allows for the network to send a emergency shutdown command to the unit.	Normal Operation	Shutdown
62	BD	ES_HDW_st_A	es_hdw_st_a	R			Displays the status of the emergency shutdown hardwired input on either ABC A or B.	Normal	Shutdown
63	BD	ES_HDW_st_B	es_hdw_st_b	R					
64	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
65	BD	Fan Status_st_A	fan_st_a	R			Displays the output status of the ABC A or B's fan output.	Off	On
66	BD	Fan Status_st_B	fan_st_b	R					
67	BD	Filter_Alm_Reset_c	filter_alm_reset_c	R/W	Inactive (0)		Used to reset the dirty filter alarm after the filter has been changed.	Off	On
68	BD	FP1_Lim_st_A	fp1_lim_st_a	R			Displays current freeze detection set point of ABC A.	15°	30°
69	BD	FP1_Lim_st_B	fp1_lim_st_b	R			Displays current freeze detection set point of ABC B.	15°	30°
70	BD	G Cmd_st	g_cmd_st	R			Displays status of the UPC fan command to the unit.	Off	On
71	BD	G_HDW_st_A	g_hdw_fan_proving_input_st_a	R			Displays the status of the "G" hardware input on either ABC A or B, this can be used as a fan proving input, requires field installed current switch.	Off	On
72	BD	G_HDW_st_B	g_hdw_fan_proving_input_st_b	R					
73	BD	Heat Cool Command_st	heat_cool_st	R			Displays the command the UPC is sending to the reversing valve.	Heating	Cooling
74	BD	High_Press_HDW_st_A	high_press_hdw_st_a	R			Displays the status of the high pressure hardware input on ABC A and B.	Open	Closed
75	BD	High_Press_HDW_st_B	high_press_hdw_st_b	R					
76	BD	Internal_External Scheduling_st	internal_external_scheduling_st	R			Used to select which schedule is used to control the unit occupancy. Occupied internal schedule = 7:30 - 5:00 Mon-Fri EST.	Internal	External
77	BD	Lead_Lag_Ena_c	lead_lag_ena_c	R/W	Active (1)		Used to enable/disable the compressor lead lag control.	Off	On
78	BD	Load Shed_c	load_shed_c	R/W	Inactive (0)		Allows for the network to enable/disable load shed.	Off	On
79	BD	LoadShed_st_A	loadshed_st_a	R			Displays the status of the load shed command from the UPC to ABC A.	Normal	Load Shed
80	BD	LoadShed_st_B	loadshed_st_b	R			Displays the status of the load shed command from the UPC to ABC B.	Normal	Load Shed

N2 Points for Dual Compressor WSHP cont.

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Object ID	Object Type	Display Name <small>*=Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
81	BD	Lockout_HDW_st_A	lockout_hdw_st_a	R			Displays the status of the alarm hardwired output relay for ABC A and B.	Normal	Lockout
82	BD	Lockout_HDW_st_B	lockout_hdw_st_b	R				Normal	Lockout
83	BD	Loop_Temp_Select_c	loop_temp_select_c	R/W	Inactive (0)		Used to select which temperature input is used for the economizer operation. If set for network, the BAS should write to ADF-86.	Sensor	Network
84	BD	LP_HDW_st_A	low_press_hdw_st_a	R			Displays the status of the low pressure switch hardware input on ABC A and B.	Open	Closed
85	BD	LP_HDW_st_B	low_press_hdw_st_b	R				Open	Closed
86	BD	LS_HDW_st_A	load_shed_hdw_st_a	R			Displays the status of the load shed hardware input on ABC A and B.	Normal	Load Shed
87	BD	LS_HDW_st_B	load_shed_hdw_st_b	R				Normal	Load Shed
88	BD	Network_DH_c	network_dh_c	R/W	Inactive (0)		Used to issue a dehumidification call to the unit. BD-41 must be set to active for this to work.	Off	On
89	BD	Network_G_c	network_g_c	R/W	Inactive (0)		Used to control the fan from the BAS.	Off	On
90	BD	Network_O_c	network_o_c	R/W	Inactive (0)		Used to control the reversing valve from the BAS.	Heating	Cooling
91	BD	Network_W_c	network_w_c	R/W	Inactive (0)		Used to control the EH-1 output on ABC A if BD-11 is set for network control.	Off	On
92	BD	Network_Y1_c	network_y1_c	R/W	Inactive (0)		Used to control the compressor call for ABC A.	Off	On
93	BD	Network_Y2_c	network_y2_c	R/W	Inactive (0)		Used to control the compressor call for ABC B.	Off	On
94	BD	O_HDW_st_A	o_hdw_occ_sensor_input_st_a	R			Allows for an Occupancy Sensor to enable temporary occupancy if BD-97 is set to active and sensor is wired between "R and O" on either ABC A or ABC B.	Off	On
95	BD	O_HDW_st_B	o_hdw_occ_sensor_input_st_b	R				Off	On
96	BD	Occ_Cmd_AV-MSV_Select_C	occ_cmd_av-msv_select_c	R/W	Inactive (0)		Used to select which point ADF-90 or ADI-5 is used for commanding occupancy.	MSV	AV
97	BD	Occ_Sensor_Enable_c	occ_sensor_enable_c	R/W	Inactive (0)		Used to enable/disable the field installed Occupancy sensor on the hardwired "O" input on either ABC A or B.	Disabled	Enabled
98	BD	Reheat_CFG_st_A	reheat_cfg_st_a	R			Displays the status of the D SW1-8 on ABC A that is used to select reheat or non-reheat operation.	Reheat	Normal
99	BD	Reheat_CFG_st_B	reheat_cfg_st_b	R			Displays the status of the D SW1-8 on ABC B that is used to select reheat or non-reheat operation.	Reheat	Normal
100	BD	Rev Vlv Status_st_A	rev_vlv_st_a	R			Displays the status of both the reversing valve outputs on both ABC A and B control boards.	Heat	Cool
101	BD	Rev Vlv Status_st_B	rev_vlv_st_b	R				Heat	Cool
102	BD	RV_Setup_st_A	rv_setup_st_a	R			Displays the default position of the reversing valve that is set by BD-28 and BD-29.	Cooling	Heating
103	BD	RV_Setup_st_B	rv_setup_st_b	R				Cooling	Heating
104	BD	Schedule Selector Command_c	schedule_selector_c	R/W	Active (1)		Used to select between the internal or external schedule. Internal schedule is Occupied 7:30-5:00 Mon-Fri EST.	Internal	External
105	BD	SW1_Test_CFG_st_A	sw1_test_cfg_st_a	R			Displays the status of the SW1 configuration button on ABC A or B, button can be used for enabling test mode.	Off	On
106	BD	SW1_Test_CFG_st_B	sw1_test_cfg_st_b	R				Off	On
107	BD	SW_2_4_st_A	sw_2_4_st_a	R	*Factory Set		Displays the status of the SW2-4 dipswitch.	Slow Opening Water Valve	
108	BD	SW_2_4_st_B	sw_2_4_st_b	R			Displays the status of the SW2-4 dipswitch, used along with BV-122 to select the ACC-1 mode operation for the ABC B.	Refer to the Dip Switch settings table for explanation on how to set these switches	

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Object ID	Object Type	Display Name <small>*=Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
109	BD	SW_2_5_st_A	sw_2_5_st_a	R	*Factory Set		Displays the status of the SW2-5 dipswitch.	Slow Opening Water Valve	
110	BD	SW_2_5_st_B	sw_2_5_st_b	R			Displays the status of the SW2-5 dipswitch, used along with BV-120 to select the ACC-1 mode operation for the ABC B.	Refer to the Dip Switch settings table for explanation on how to set these switches.	
111	BD	Temp Occ Dis_c	temp_occ_dis_c	R/W	Active (1)		Allows for the network to disable temporary occupancy capabilities.	Disabled	Enabled
112	BD	TempOcc_st	temp_occ_st	R			Displays the status of the temporary occupancy input.	Normal	Temp Occ
113	BD	Test Mode Ena_c	test_mode_ena_c	R/W	Inactive (0)		Do Not Map to BAS	Do Not Map	Do Not Map
114	BD	Test Mode HDW_st_A	test_mode_hdw_st_a	R			Do Not Map to BAS	Do Not Map	Do Not Map
115	BD	Test Mode HDW_st_B	test_mode_hdw_st_b	R			Do Not Map to BAS	Do Not Map	Do Not Map
116	BD	W_HDW_ST_A	w_hdw_dirty_filter_input_st_a	R			Displays the status of the "W" hardware input on ABC A, can be used as a dirty filter input, requires field installed switch.	Off	On
117	BD	W_HDW_ST_B	w_hdw_dirty_filter_input_st_b	R			Displays the status of the "W" hardware input on ABC B, can be used as a dirty filter input, requires field installed switch.	Off	On
118	BD	Y1 Cmd_st	y1_cmd_st	R			Displays the status of the "Y1" command to the ABC from the UPC.	Off	On
119	BD	Y1 HDW st_A	y1_hdw_comp_proving_input_st_a	R			Displays the status of the "Y1" hardware input On ABC B, used as a Compressor proving input, requires field installed hardware.	Off	On
120	BD	Y1 HDW st_B	y1_hdw_comp_proving_input_st_b	R			Displays the status of the "Y1" hardware input on ABC B, used as a Compressor proving input, requires field installed hardware.	Off	On
121	BD	Y2 Cmd_st	y2_cmd_st	R			Displays the status of the "Y2" command to the ABC from the UPC.	Off	On
122	BD	Y2_HDW_st_A	y2_hdw_vlv_end_sw_input_st_a	R			Displays the status of the "Y2" hardware input, used as a valve end switch input, requires field installed hardware.	Off	On
123	BD	Y2_HDW_st_B	y2_hdw_vlv_end_sw_input_st_b	R			Displays the status of the "Y2" hardware input, used as a valve end switch input, requires field installed hardware.	Off	On
124	BD	Zone_Temp_Selector_c	zone_temp_selector_c	R/W	Inactive (0)		Used to select which zone temp input to operate from, if set to BAS, the temperature must be written in from ADF-130.	Sensor	BAS
125	BD	Archive_Now_c	Archive_Now_c	R/W	Inactive (0)		Used to force the UPC to archive the current configuration.	Off	On

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Object ID	Object Type	Display Name <small>**Requires AXB</small>	Reference Name	Read / Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
<i>ADI MultiStateValues</i>									
1	ADI	EffectiveOccup_st	effect_occup_st	R			Displays the effective occupancy of the unit.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby] [5 = Occ Sensor]	
2	ADI	Lockout_Enumerated_st_A	lockout_enumerated_st_a	R			Displays a specific alarm text that is used to describe the alarm condition for ABC A or ABC B.	Refer to the Aurora UPC Dual Compressor alarms table.	
3	ADI	Lockout_Enumerated_st_B	lockout_enumerated_st_b	R					
4	ADI	Mode_of_Operation_st	mode_st	R			Displays the current operating mode of the unit. There are a total of 20 different modes.	Refer to the Mode Of Operations Table.	
5	ADI	OccManCmd_c	occ_man_cmd_c	R/W	1		Used to command the units occupancy, BD-96 has to be set to 'MSV' for this point to work.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby] [5 = Occ Sensor]	
6	ADI	*Phase_Selection_c	phase_selection_c	R/W	1		Used to select the supply power phase, this selection helps to improve energy monitoring if the AXB and sensing hardware is present.	[1 = Single Phase] [2 = Three Phase]	

Modes of Operation for Dual Compressor WSHP

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Dual Compressor Water to Air Modes Of Operation
1 = Standby
2 = Fan Only
3 = Cooling Stage 1
4 = Cooling Stage 2
5 = Hot Gas Reheat
6 = Heating Stage 1
7 = Heating Stage 2
8 = Emergency Heat
9 = Auxiliary Heat
10 = Emergency Shutdown
11 = Load Shed
12 = ABC A Lock-Out
13 = Test Mode
14 = Economizer Mode
15 = ABC B Lout-Out
16 = Full Cool W/Economizer
17 = Dehumidification Mode
18 = 1/2 Capacity W/Lock-Out
19 = Full Lockout Condition
20 = Clg 1 W/Economizer

ABC Dipswitches for Dual Compressor WSHP

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ABC Dip Switch Commandable Override Points

We understand the hassles associated with configuring each unit's controller in a commercial building so we have provided a way to accomplish this thru the Building Automation System or through the ATU interface. The BAS method allows for the control technician to send commands to UPC Controller and set the freeze detection set point or the accessory 1 relay operation through a BAS. The physical dip switch bank that is normally used to configure the unit settings can still be used if desired, but one must make sure that the switches have not already been overridden. A technician can determine if the dip switches have been overridden by the BAS by looking at the yellow LED located on the Aurora Base Controller, if the yellow LED is constantly flashing slow then at least one switch has been overridden. The following procedure must be followed carefully to ensure proper unit configuration. Since we are able to use the BAS to select these settings special care must be taken when doing start-up on the units. The physical switch position can differ from what is set as defaults in the UPC program, so verify and record the actual switch settings before trying to command the points. First thing that needs to be done is to determine what settings are present and what settings need changed. To locate the current switch settings refer to these points for their read only values. Remember that these points represent the current configuration and not necessarily the actual position of the switches, there is a column below that can be used to record the current switch settings.

Alarms for Dual Compressor WSHP

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Commercial Alarms Table for the Dual Compressor Aurora with UPC						
Aurora Base Controller with UPC Alarms Table		ABC Red LED Flash Code	Alarm Values Enumerated on AV-80 & AV-81 or ADF-78 & ADF-79 to the BAS	Alarm Values Enumerated on MSV-6 & MSV-7 to the BAS	Lockout	Reset
ABC & AXB Basic Faults	Normal - No Faults	Off	0	1	-	-
	E1 - Fault-Input	1	1	2	No	Auto
	E2 - Fault-High Pressure	2	2	3	Yes	Hard or Soft
	E3 - Fault-Low Pressure	3	3	4	Yes	Hard or Soft
	E4 - Fault-Freeze Detection FP2	4	4	5	Yes	Hard or Soft
	E5 - Fault-Freeze Detection FP1	5	5	6	Yes	Hard or Soft
	E6 - Fault-Loss Of Charge	6	6	7	Yes	Hard or Soft
	E7 - Fault-Condensate Overflow	7	7	8	Yes	Hard or Soft
	E8 - Fault-Over/Under Voltage	8	8	9	No**	Auto
	E9 - Airflow Monitoring	9	9	10	Future	Future
	E10 - Fault-Compressor Monitoring	10	10	11	Yes	Hard or Soft
	E11 - Fault-FP1 Snsr Error	11	11	12	Yes	Hard or Soft
	E12 - Refrigeration Monitoring	12	12	13	Future	Future
	E13 - Non Critical AXB Sensor Error	13	13	14	Future	Future
	E14 - Critical AXB Sensor Error	14	14	15	Future	Future
	E15 - Hot Water Limit	15	15	16	No	Auto
	E16 - Fault-VarSpdPump	16	16	17	No	Auto
	E30 - Zone Sensor Loss of Comm	N/A	30	18	Yes	Auto
	E18 - Non-CritComErr	18	18	19	No	Auto
	E19 - CritComErr	19	19	20	Yes	Auto
E20 - UPC-ABC Critical Comm Error	N/A	20	20	Yes	Auto	

Dual Compressor Water to Air Modes Of Operation
1 = Standby
2 = Fan Only
3 = Cooling Stage 1
4 = Cooling Stage 2
5 = Hot Gas Reheat
6 = Heating Stage 1
7 = Heating Stage 2
8 = Emergency Heat
9 = Auxiliary Heat
10 = Emergency Shutdown
11 = Load Shed
12 = ABC A Lock-Out
13 = Test Mode
14 = Economizer Mode
15 = ABC B Lout-Out
16 = Full Cool W/Economizer
17 = Dehumidification Mode
18 = 1/2 Capacity W/Lock-Out
19 = Full Lockout Condition
20 = Clg 1 W/Economizer

Internal Schedule for Dual Compressor WSHP

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Aurora UPC Schedule		
Internal Schedule	Eastern Standard Time	
	Occupied	Unoccupied
Sunday	Unscheduled	Unscheduled
Monday	7:30am-5pm	5pm-7:30am
Tuesday	7:30am-5pm	5pm-7:30am
Wednesday	7:30am-5pm	5pm-7:30am
Thursday	7:30am-5pm	5pm-7:30am
Friday	7:30am-5pm	5pm-7:30am
Saturday	Unscheduled	Unscheduled

Control Tables for Dual Compressor WSHP

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Read Only Values	
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	ABC A Lock-Out
13	Test Mode
14	Economizer Mode
15	ABC B Lock-Out
16	Full Cool W/Economizer
17	Dehumidification
18	1/2 Capacity W/Lock-out
19	Full Lock-Out
20	Cooling 1 W/Economizer

ADF-90	Read/Write	
occ_man_cmd_c		
Value	1	Occupied
	2	Unoccupied
	3	Temp Occ
	4	Standby

BD-76	Read/Write	
Internal_external_Scheduling		
Inactive	Internal	
Active	External	

		Read Only	
		AV-55	eff_occ_an
Value	1	Occupied	
	2	Unoccupied	
	3	Temp Occ	
	4	Standby	
	5	Occ Sensor	

Hardwired Inputs for Dual Compressor WSHP

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Fan Proving Hardwired Input					
		Instance Number			
Protocol	ABC "A"	ABC "B"	Reference Name	Point Type	Read / Write
BACnet	72	73	g_hdw_fan_proving_input_st	BV	Read
N2 Open	71	72	g_hdw_fan_proving_input_st	BD	Read
Description	When a UPC is present and connected to the ABC, this point is used to provide the status of the fan if a current switch is installed and wired into the ABC's hardwired "G" input.				

Compressor Proving Hardwired Input					
		Instance Number			
Protocol	ABC "A"	ABC "B"	Reference Name	Point Type	Read / Write
BACnet	131	132	y1_hdw_comp_proving_input_st	BV	Read
N2 Open	119	120	y1_hdw_comp_proving_input_st	BD	Read
Description	When a UPC is present and connected to the ABC, this point is used to provide the status of the compressor if a current switch is installed and wired into the ABC's hardwired "Y1" input.				

Occupancy Sensor Hardwired Input					
		Instance Number			
Protocol	ABC "A"	ABC "B"	Reference Name	Point Type	Read / Write
BACnet	99	100	o_hdw_occ_sensor_input_st	BV	Read
N2 Open	94	95	o_hdw_occ_sensor_input_st	BD	Read
Description	When a UPC is present and connected to the ABC, this point is used to provide the status of an occupancy switch that is wired into the ABC's hardwired "O" input.				

Valve End Switch					
		Instance Number			
Protocol	ABC "A"	ABC "B"	Reference Name	Point Type	Read / Write
BACnet	134	135	y2_hdw_vlv_end_sw_input_st	BV	Read
N2 Open	122	123	y2_hdw_vlv_end_sw_input_st	BD	Read
Description	When a UPC is present and connected to the ABC, this point is used to provide the status of a valve end switch if the switch is installed and wired into the ABC's hardwired "Y2" input.				

Dirty Filter Hardwired Input					
		Instance Number			
Protocol	ABC "A"	ABC "B"	Reference Name	Point Type	Read / Write
BACnet	129	130	w_hdw_dirty_filter_input_st	BV	Read
N2 Open	116	117	w_hdw_dirty_filter_input_st	BD	Read
Description	When a UPC is present and connected to the ABC, this point is used to provide the status of a differential pressure switch if the switch is installed and wired into the ABC's hardwired "W" input.				

Notes Key for Dual Compressor WSHP

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Dual Compressor Notes Key	
① = Only displayed if logged in as the Administrator	④ = Factory set value
② = Only displayed if logged in as the User	⑤ = Adjustable thru the touchscreen
③ = Only displayed if logged in as the factory	⑥ = Only displayed if feature is enabled

