

AURORA

Aurora Universal Protocol Converter (UPC) Rooftop Economizer
N2 Points List For Single/Dual Compressor Rooftop Economizer
Software Version 1.01 Utilizing the Aurora UPC Controller

UPC N2 Points List For Single/Dual Compressor Rooftop Economizer

Rooftop with Economizer
N2 Pointlist for Single Compressor
Software Version 1.01 Utilizing the Aurora UPC Controller

N2 Points for Single Compressor Rooftop Economizer

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
1	ADF	ZoneTemp	zone_temp	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.		
2	ADF	ZoneTempAdj	zone_temp_adj_c	R/W	0	°F	Displays and allows for the zone temperature reading to be adjusted, this is used to calibrate the zone temperature value.		
3	ADF	ZoneTempOvrđ	zone_temp_ovrd_c	R/W	0	°F	Allows for the Zone Temp to be overridden by the BAS if necessary, need to command BD-1 to "Active or BAS" before the override will work.		
4	ADF	ZoneHum	zone_hum	R		%rh	Displays the humidity value of the zone sensor if it is equipped with a humidity sensor.		
5	ADF	HumidityCmd	humidity_c	R/W	0	%rh	Allows for the BAS to override the space humidity value if desired.		
6	ADF	CO2stat	co2_stat	R		ppm	Displays the CO2 value if the zone sensor is equipped with the sensor		
7	ADF	CO2cmd	co2_cmd_c	R/W	0	ppm	Allows for the BAS to write the CO2 value to the UPC if desired.		
8	ADF	VOCstat	voc_stat	R		ppm	Displays the VOC value if the zone sensor is equipped with the sensor		
9	ADF	VOCcmd	voc_cmd_c	R/W	0	ppm	Allows for the BAS to write the VOC value to the UPC if desired.		
10	ADF	OccManCmdAV	occ_man_av_c	R/W	1	no units	Allows for the BAS to command the occupancy of the unit if BD-4 is set for "AV" or "Active". If BD-4 is not set for Active or AV then commands to this ADF will be ignored.		
11	ADF	EffOccStat	eff_occ_st	R		no units	Displays the current occupancy status of the system.		
12	ADF	Setpoint	occ_clg_setpt_c	R/W		°F	Displays and sets the occupied cooling set point.		
13	ADF	Setpoint	occ_htg_setpt_c	R/W		°F	Displays and sets the occupied heating set point.		
14	ADF	Setpoint	unocc_clg_setpt_c	R/W		°F	Displays and sets the unoccupied cooling set point.		
15	ADF	Setpoint	unocc_htg_setpt_c	R/W		°F	Displays and sets the unoccupied heating set point.		
16	ADF	StandbyCoolSetpt	standby_cool_setpt_c	R/W	76	°F	Displays and sets the standby cooling set point.		
17	ADF	StandbyHeatSetpt	standby_heat_setpt_c	R/W	68	°F	Displays and sets the standby heating set point.		
18	ADF	Setpoint	eff_clg_setpt_c	R/W		°F	Displays the effective cooling set point.		
19	ADF	Setpoint	eff_htg_setpt_c	R/W		°F	Displays the effective heating set point.		
20	ADF	SetPtDiff	setpt_diff_c	R/W	2	°F	Displays and sets the minimum temperature between the heating and cooling setpoints.		
21	ADF	SetPtSpan	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.		
22	ADF	TempOccTime	temp_occ_time	R		m/sec	Displays the amount of time left in temporary occupancy only while in Temp Occ.		
23	ADF	OccManValue	occ_man_value	R		no units	Displays the currently selected occupancy value.		
24	ADF	EconMode	econ_mode	R		no units	Displays the currently active Economizer mode.		
25	ADF	EconDampPos	econ_damp_pos	R		%	Displays the current damper position determined by Economizer logic.		
26	ADF	AtmPres	atm_pres_c	R/W	14.1	psi	Allows the BAS to supply the current atmospheric pressure for enthalpy calculations.		
27	ADF	ElevFeet	elev_feet_c	R/W	1000	ft	Allows the BAS to supply the current elevation for enthalpy calculations (to be converted to estimated atmospheric pressure).		
28	ADF	AirPres	air_pres	R		psi	Current atmospheric pressure value being used for enthalpy calculations.		
29	ADF	OATadjust	oat_adjust_c	R/W	0	°F	Calibration offset value for outdoor air temperature sensor.		
30	ADF	OAToverride	oat_override_c	R/W	0	°F	Allows the BAS to write the outdoor air temperature to the UPC (BD-21 must be set to use this value).		
31	ADF	OATstat	oat_stat	R		°F	Displays the current usable outdoor air temperature value.		
32	ADF	OAHadjust	oah_adjust_c	R/W	0	%rh	Calibration offset value for outdoor air humidity sensor.		
33	ADF	OAHoverride	oah_override_c	R/W	0	%rh	Allows the BAS to write the outdoor air humidity to the UPC (BD-23 must be set to use this value).		
34	ADF	OAHstat	oah_stat	R		%rh	Displays the current usable outdoor air humidity value.		
35	ADF	OutEnth	out_enth	R		Btu/lb	Displays the currently calculated outdoor air enthalpy value.		
36	ADF	OutDew	out_dew	R		°F	Displays the currently calculated outdoor air dew point value.		
37	ADF	RATadjust	rat_adjust_c	R/W	0	°F	Calibration offset value for return air temperature sensor.		

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								Inactive = 0	Active = 1
38	ADF	RATOverride	rat_override_c	R/W	0	°F	Allows the BAS to write the return air temperature to the UPC (BD-25 must be set to use this value).		
39	ADF	RATstat	rat_stat	R		°F	Displays the current usable return air temperature value.		
40	ADF	RAHadjust	rah_adjust_c	R/W	0	%rh	Calibration offset value for return air humidity sensor.		
41	ADF	RAHoverride	rah_override_c	R/W	0	%rh	Allows the BAS to write the return air humidity to the UPC (BD-27 must be set to use this value).		
42	ADF	RAHstat	rah_stat	R		%rh	Displays the current usable return air humidity value.		
43	ADF	RetEnth	ret_enth	R		Btu/lb	Displays the currently calculated return air enthalpy value.		
44	ADF	RetDew	ret_dew	R		°F	Displays the currently calculated return air dew point value.		
45	ADF	EconAV	econ_av_c	R/W	5	no units	Displays and allows selection of Economizer operating mode using numeric value.		
46	ADF	DBSetPt	db_setpt_c	R/W	63	°F	Displays and allows adjustment of dry bulb set point for Economizer operation.		
47	ADF	DBLimit	db_limit_c	R/W	75	°F	Displays and allows adjustment of dry bulb limit for Economizer operation.		
48	ADF	DBDiff	db_diff_c	R/W	2	°F	Displays and allows adjustment of dry bulb differential for Economizer operation.		
49	ADF	EnthSetPt	enth_setpt_c	R/W	24	Btu/lb	Displays and allows adjustment of the enthalpy set point for Economizer operation.		
50	ADF	EnthLimit	enth_limit_c	R/W	30	Btu/lb	Displays and allows adjustment of the enthalpy limit for Economizer operation.		
51	ADF	EnthDiff	enth_diff_c	R/W	2	Btu/lb	Displays and allows adjustment of the enthalpy differential for Economizer operation.		
52	ADF	MASetPt	ma_setpt_c	R/W	53	°F	Displays and allows adjustment of mixed air set point for Economizer operation.		
53	ADF	MinDmpPos	min_dmp_pos_c	R/W	30	%	Displays and allows adjustment of the minimum damper position for Economizer operation.		
54	ADF	MinLATLim	min_lat_lim_c	R/W	45	°F	Displays and allows adjustment of the minimum leaving air temperature set point for Economizer operation.		
55	ADF	MinOATClg	min_oat_clg_c	R/W	40	°F	Displays and allows adjustment of minimum outdoor air temperature for mechanical cooling operation.		
56	ADF	MinOATVent	min_oat_vent_c	R/W	0	°F	Displays and allows adjustment of the minimum outdoor temperature for ventilation operation.		
57	ADF	MaxDCVPos	max_dcv_pos_c	R/W	40	%	Displays and allows adjustment of the maximum damper position for demand controlled ventilation.		
58	ADF	LowDCVval	low_dcv_val_c	R/W	600	ppm	Displays and allows adjustment of the lower variable value for demand controlled ventilation associated with the minimum damper position.		
59	ADF	HighDCVval	high_dcv_val_c	R/W	1200	ppm	Displays and allows adjustment of the upper variable value for demand controlled ventilation associated with the maximum demand controlled ventilation position.		
60	ADF	SamTime	sam_time_c	R/W	60	seconds	Displays and allows adjustment of the outdoor air temperature sampling time for Economizer operation.		
61	ADF	DmpCool	dmp_cool_c	R/W	75	%	Displays and allows adjustment of the minimum damper position allowed for mechanical cooling operation with the Economizer active.		
62	ADF	CompUpTime	comp_up_time_c	R/W	120	seconds	Displays and allows adjustment of the minimum time required for upstaging with Economizer operation.		
63	ADF	CompDnTime	comp_dn_time_c	R/W	120	seconds	Displays and allows adjustment of the maximum time required for upstaging with Economizer operation.		
64	ADF	NATime	na_time_c	R/W	60	seconds	Displays and allows adjustment of the damper adjustment time during neutral air operation.		
65	ADF	ActiveSetPt	active_setpt	R		°F	Displays the set point that is controlling the call for the compressor.		
66	ADF	NeutSetPt	neut_setpt	R		°F	Displays the current neutral air setpoint used by the Economizer logic for neutral air delivery.		
67	ADF	ModeAV	mode_av	R		no units	Numeric value to display the operating mode of the unit, refer to the mode of operations table for a description of modes.		
68	ADF	ManECMSpeed	man_ecm_speed_c	R/W	0	no units	Do Not Map To BAS		
69	ADF	ECMOverride	ecm_override	R		no units	Do Not Map To BAS		
70	ADF	ManVSPumpA	man_vs_pump_a_c	R/W	0	%	Do Not Map To BAS		
72	ADF	ManDampPos	man_damp_pos_c	R/W	0	%	Do Not Map To BAS		
73	ADF	ActualDampPos	actual_damp_pos	R		%	Displays the current damper target position.		
74	ADF	FP1SetPtA	fp1_setpt_a	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit A.		

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								Inactive = 0	Active = 1
75	ADF	FP2SetPtA	fp2_setpt_a	R		°F	Displays the FP2 freeze detection limit (air coil temp) for circuit A.		
78	ADF	FilterAlmHrs	filter_alm_hrs_c	R/W	1000	hr	Allows for adjustment to the filter alarm hours, adjust this value to set the number of fan run hours.		
79	ADF	FilterHours	filter_hours	R		hr	Displays the number of fan run hours since the last filter alarm reset.		
80	ADF	LockStatRegA	lock_stat_reg_a	R		no units	Do Not Map To BAS		
81	ADF	AlarmEnumA	alarm_enum_a	R		no units	Displays alarm value for ABC A		
84	ADF	AlarmEnum	alarm_enum	R		no units	Displays combined system alarm value		
85	ADF	ECMSpeedSwA	ecm_speed_sw_a	R		no units	Displays the current ECM target speed.		
86	ADF	ECMpwmPctA	ecm_pwm_pct_a	R		%	Displays the current ECM PWM output percentage.		
87	ADF	VSPumpSpdA	vs_pump_spd_stat_a	R		%	Displays the current target % of the VS Pump output for circuit A.		
88	ADF	VSPumpPctA	vs_pump_pct_stat_a	R		%	Displays the current operating % of the VS Pump output for circuit A.		
91	ADF	CoaxTempA	coax_temp_stat_a	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit A on ABC A.		
92	ADF	AirCoilTempA	air_coil_temp_stat_a	R		°F	Displays the temperature of the refrigerant at the air coil associated with circuit A on ABC A.		
95	ADF	LWTA	lwt_stat_a	R		°F	Displays the value of the LWT Input on circuit A if the sensing hardware is present.		
96	ADF	EWTA	ewt_stat_a	R		°F	Displays the value of the EWT Input on circuit A if the sensing hardware is present.		
97	ADF	WaterFlowA	water_flow_stat_a	R		gpm	Displays the GPM flow rate of circuit A if the sensing hardware is present.		
98	ADF	LoopPresA	loop_pres_stat_a	R		psi	Displays the loop pressure for circuit A if the sensing hardware is present.		
99	ADF	AXBLATA	lat_stat	R		°F	Displays the leaving air temperature that is connected to the AXB A.		
100	ADF	SuctPressStatA	suct_press_stat_a	R		psi	Displays the suction pressure of circuit A if the sensing hardware is present.		
101	ADF	DischPressStatA	disch_press_stat_a	R		psi	Displays the discharge pressure of circuit A if the sensing hardware is present.		
102	ADF	SuctTempStatA	suct_temp_stat_a	R		°F	Displays the suction temperature of circuit A if the sensing hardware is present.		
103	ADF	DischTempStatA	disch_temp_stat_a	R		°F	Displays the discharge temperature of circuit A if the sensing hardware is present.		
104	ADF	LiqLineTempStatA	liq_line_temp_stat_a	R		°F	Displays the heating liquid line temperature for circuit A if the sensing hardware is present.		
105	ADF	SatEvapTempStatA	sat_evap_temp_stat_a	R		°F	Displays the saturated evaporator temperature for circuit A if the sensing hardware is present.		
106	ADF	CondTempStatA	cond_temp_stat_a	R		°F	Displays the condenser temperature for circuit A if the sensing hardware is present.		
107	ADF	EstLineVoltageStatA	est_line_voltage_stat_a	R		V	Displays the estimated line voltage at circuit A based on the measured control voltage and current line voltage calibration value.		
108	ADF	ControlVoltageStatA	control_voltage_stat_a	R		V	Displays the low voltage circuit value that is powering the ABC A.		
109	ADF	HotWaterTempStatA	hot_wtr_temp_stat_a	R		°F	Displays the hot water temperature input for circuit A if the sensing hardware is present.		
110	ADF	UnivInputStatA	univ_input_stat_a	R		no units	Displays the raw count value of the circuit A universal input.		
111	ADF	SuperheatStatA	superheat_stat_a	R		°F	Displays the super heat of circuit A if the sensing hardware is present.		
112	ADF	HtgSubcoolStatA	htg_subcool_stat_a	R		°F	Displays the sub cooling calculation in the heating mode of circuit A if the sensing hardware is present		
113	ADF	ClgSubcoolStatA	clg_subcool_stat_a	R		°F	Displays the sub cooling calculation in the cooling mode of circuit A if the sensing hardware is present		
114	ADF	FanCurrentStatA	fan_current_stat_a	R		A	Displays the amp draw for the Fan output on circuit A if the sensing hardware is present.		
115	ADF	AuxCurrentStatA	aux_current_stat_a	R		A	Displays the amp draw for the Auxiliary output on circuit A if the sensing hardware is present.		
116	ADF	CompCurrentStatA	comp_current_stat_a	R		A	Displays the compressor amp draw on L1 or L2 on circuit A if the sensing hardware is present.		
117	ADF	Comp1CurrentStatA	comp1_current_stat_a	R		A	Displays the compressor amp draw on L1 or L2 on circuit A if the sensing hardware is present.		
118	ADF	TotalAmpsStatA	total_amps_stat_a	R		A	Displays the calculated total amp draw for circuit A if the sensing hardware is present.		
119	ADF	CompPowerStatA	comp_power_stat_a	R		W	Calculates and displays the compressor power of circuit A if the sensing hardware is present.		
120	ADF	FanPowerStatA	fan_power_stat_a	R		W	Displays the watt usage for Fan output on circuit A if the sensing hardware is present.		
121	ADF	AuxPowerStatA	aux_power_stat_a	R		W	Displays the watt usage for Auxiliary output on circuit A if the sensing hardware is present.		
122	ADF	TotalPowerStatA	total_power_stat_a	R		W	Displays the calculated total watt usage for circuit A if the sensing hardware is present.		
123	ADF	HEHR_StatA	he_hr_stat_a	R		Btu/hr	Calculates and displays the heat of rejection and heat of extraction for circuit A if the sensing hardware is present.		
124	ADF	TotalCapStatA	total_cap_stat_a	R		Btu/hr	Displays the calculated value for circuit A total capacity if the sensing hardware is present.		

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								Inactive = 0	Active = 1
125	ADF	COPStatA	cop_stat_a	R		no units	Displays the calculated C.O.P of circuit A if the sensing hardware is present.		
126	ADF	EERStatA	eer_stat_a	R		no units	Displays the EER calculation of circuit A if the sensing hardware is present		
181	ADF	LowECMSpd	low_ecm_spd_c	R/W	3	no units	Displays and allows for the low speed ECM airflow setting to be adjusted.		
182	ADF	MedECMSpd	med_ecm_spd_c	R/W	7	no units	Displays and allows for the medium speed ECM airflow setting to be adjusted.		
183	ADF	HighECMSpd	high_ecm_spd_c	R/W	11	no units	Displays and allows for the high speed ECM airflow setting to be adjusted.		
184	ADF	AuxHtECMSpd	aux_ht_ecm_spd_c	R/W	12	no units	Displays and allows for the auxiliary heat speed ECM airflow setting to be adjusted.		
185	ADF	BlwrOffDelaySet	blwr_off_delay_c	R/W	30	seconds	Allows adjustment of the time that the blower stays on after the compressor shuts off if the blower is set for cycled operation.		
186	ADF	ClgCFMOffsetAV	clg_cfm_offset_av_c	R/W	4	no units	Numeric value for selecting dehumidification operation for ECM blower.		
187	ADF	OccDehumSetpt	occ_dehum_setpt_c	R/W	53	%rh	Allows for the adjustment of the occupied dehumidification set point.		
188	ADF	UnnoccDehumSetpt	unocc_dehum_setpt_c	R/W	75	%rh	Allows for the adjustment of the unoccupied dehumidification set point.		
189	ADF	DehumSetPt	dehum_setpt	R		%rh	Displays the currently active dehumidification setpoint.		
190	ADF	DehumDiff	dehum_diff_c	R/W	5	%rh	Allows for the adjustment of the dehumidification differential, or deadband for operation.		
191	ADF	VSPumpMinSpdA	vs_pump_min_spd_a_c	R/W	50	%	Displays and allows for the VS Pump minimum speed setting to be adjusted for circuit A.		
192	ADF	VSPumpMaxSpdA	vs_pump_max_spd_a_c	R/W	100	%	Displays and allows for the VS Pump maximum speed setting to be adjusted for circuit A.		
193	ADF	PumpOptionA	pump_opt_a_c	R/W	0	no units	Displays and allows selection of the pump or loop option for circuit A.		
197	ADF	FlowMeterA	flow_meter_a_c	R/W	0	no units	Displays and allows selection of the flow meter option for circuit A.		
199	ADF	DHWSetptA	dhw_setpt_a_c	R/W	130	°F	Displays and allows selection of the hot water setpoint for circuit A.		
201	ADF	EnergyMonA	energy_mon_a_c	R/W	0	no units	Displays and allows selection of the energy monitor option for circuit A.		
203	ADF	Acc1DelayA	acc1_delay_a_c	R/W	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output on circuit A.		
205	ADF	MeasuredLineVolts	measured_line_volts_c	R/W	230	V	Allows for calibration of the line voltage reading, measure the incoming line voltage and enter the value here, this is used to improve the accuracy of the performance monitoring data.		
206	ADF	BlowerConfig	blower_config_c	R/W	9	no units	Displays and allows selection of the blower configuration.		
Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
1	BD	TempSelector	temp_selector_c	R/W	Inactive (0)	--	Used to select between wall sensor and BAS for space temperature value.	Sensor	BAS
2	BD	ValidSensor	valid_sensor	R		--	Displays current status of having a valid space temperature value.	Off	On
3	BD	ScheduleSelectCmd	schedule_select_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
4	BD	OccCmdSelect	occ_cmd_select_c	R/W	Inactive (0)	--	Occupancy command selection between ADF-10 & ADI-1.	MSV	AV
5	BD	OccSensorEnable	occ_sensor_enable_c	R/W	Inactive (0)	--	Enables or disables occupancy sensor connected to ABC O input.	Disabled	Enabled
6	BD	OccManCmdBV	occ_man_cmd_bv_c	R/W	Inactive (0)	--	BAS occupancy signal.	Off	On
7	BD	TempOcc	temp_occ_c	R/W	Active (1)	--	Enables or disables temporary occupancy at zone sensors.	Enable	Disable
8	BD	TempOccStat	temp_occ_stat	R		--	Displays temporary occupancy status.	Normal	Temp Occ
9	BD	NotUnoccupied	not_unoccupied	R		--	Do Not Map To BAS	Off	On
10	BD	FanOccupied	fan_occupied	R		--	Do Not Map To BAS	Off	On
11	BD	ArchiveNow	archive_now_c	R/W	Inactive (0)	--	Forces UPC to Archive the current system settings and database values.	No	Yes
12	BD	EconOn	econ_on_c	R/W	Inactive (0)	--	BAS value to indicate Economizer is available for operation when being controlled in the slave mode.	Off	On
13	BD	EconAvail	econ_avail	R		--	Displays current availability fo Economizer for free cooling.	Not Avail	Available
14	BD	LVTStatus	lvt_status	R		--	Indicates if the low outdoor temperature ventilation logic is active.	Inactive	Active
15	BD	DCVStatus	dcv_status	R		--	Indicates if demand controlled ventilation logic is active.	Inactive	Active

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								Inactive = 0	Active = 1
16	BD	EconStat	econ_stat	R		--	Indicates if economizer operation is active.	Off	On
17	BD	LowLAT	low_lat	R		--	Indicates if Low LAT logic is active.	Off	On
18	BD	Y1Demand	y1_demand	R		--	Indicates that Economizer logic is passing on a Y1 compressor demand.	Off	On
19	BD	Y2Demand	y2_demand	R		--	Indicates that Economizer logic is passing on a Y2 compressor demand.	Off	On
20	BD	PresSelect	pres_select_c	R/W	Inactive (0)	--	Selects between atmospheric pressure and elevation for enthalpy calculations.	Pressure	Elevation
21	BD	OATselect	oat_select_c	R/W	Inactive (0)	--	Selection value for OAT source	Sensor	BAS
22	BD	OATvalid	oat_valid	R		--	Indication that a valid OAT value is present.	Off	On
23	BD	OAHselect	oah_select_c	R/W	Inactive (0)	--	Selection value for OAH source	Sensor	BAS
24	BD	OAHvalid	oah_valid	R		--	Indication that a valid OAH value is present.	Off	On
25	BD	RATselect	rat_select_c	R/W	Inactive (0)	--	Selection value for RAT source	Sensor	BAS
26	BD	RATvalid	rat_valid	R		--	Indication that a valid RAT value is present.	Off	On
27	BD	RAHselect	rah_select_c	R/W	Inactive (0)	--	Selection value for RAH source	Sensor	BAS
28	BD	RAHvalid	rah_valid	R		--	Indication that a valid RAH value is present.	Off	On
29	BD	LowLATPos	low_lat_pos_c	R/W	Active (1)	--	Selects the minimum damper position for operation with low LAT conditions.	Min Position	Closed
30	BD	NoDemEcon	no_dem_econ_c	R/W	Active (1)	--	Selects operation of the Economizer with no heating or cooling demand present when economizer operation is available.	Min Position	Neutral Air
31	BD	DemCtrlVent	dem_ctrl_vent_c	R/W	Inactive (0)	--	Enables or disables Demand Controlled Ventilation.	Disabled	Enabled
32	BD	DCVvariable	dcv_variable_c	R/W	Inactive (0)	--	Selects the control variable for Demand Controlled Ventilation.	CO2	VOC
33	BD	FanOperation	fan_operation_c	R/W	Active (1)	--	Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
34	BD	EmShutdown	em_shutdown_c	R/W	Inactive (0)	--	Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
35	BD	ESstat	es_stat	R		--	Emergency Shutdown status of System.	Normal	Shutdown
36	BD	ESstatA	es_stat_a	R		--	Emergency Shutdown status of ABC A.	Normal	Shutdown
38	BD	LoadShed	load_shed_c	R/W	Inactive (0)	--	Allows for the network to issue a load shed command to the unit	Off	On
39	BD	LSstatA	ls_stat_a	R		--	Load Shed status of ABC A.	Normal	Load Shed
41	BD	Y1Dem	y1_dem	R		--	Displays the status of the Y1 demand calculated by the internal PID logic.	Off	On
42	BD	Y2Dem	y2_dem	R		--	Displays the status of the Y2 demand calculated by the internal PID logic.	Off	On
43	BD	NetworkY1	network_y1_c	R/W	Inactive (0)	--	Used to generate a Y1 demand from BAS.	Off	On
44	BD	NetworkY2	network_y2_c	R/W	Inactive (0)	--	Used to generate a Y2 demand from BAS.	Off	On
45	BD	NetworkW	network_w_c	R/W	Inactive (0)	--	Used to generate a W demand from BAS.	Off	On
46	BD	NetworkO	network_o_c	R/W	Inactive (0)	--	Used to generate a O demand from BAS.	Off	On
47	BD	NetworkG	network_g_c	R/W	Inactive (0)	--	Used to generate a G demand from BAS.	Off	On
48	BD	NetworkDH	network_dh_c	R/W	Inactive (0)	--	Used to generate a DH demand from BAS.	Off	On
49	BD	EH1OverCmd	eh1_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH1 output from BAS.	Off	On
50	BD	EH2OverCmd	eh2_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH2 output from BAS.	Off	On
54	BD	Y1CmdStat	y1_cmd_stat	R		--	Displays the status of the ABC A Y1 call from the UPC	Off	On

N2 Points for Single Compressor Rooftop Economizer cont.

Software Version 1.01 Utilizing the Aurora UPC Controller



Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
55	BD	Y2CmdStat	y2_cmd_stat	R		--	Displays the status of the ABC A Y2 call from the UPC	Off	On
56	BD	WCmdStat	w_cmd_stat	R		--	Displays the status of the ABC W call from the UPC	Off	On
57	BD	OCmdStat	o_cmd_stat	R		--	Displays the status of the ABC O call from the UPC	Heating	Cooling
58	BD	GCmdStat	g_cmd_stat	R		--	Displays the status of the ABC G call from the UPC	Off	On
59	BD	DHCmdStat	dh_cmd_stat	R		--	Displays the status of the ABC DH call from the UPC	Off	On
60	BD	ManualECM	manual_ecm_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
61	BD	ManVSPump	man_vs_pump_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
62	BD	ManDamp	man_damp_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
63	BD	AlarmResetCmd	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
64	BD	AlarmResetStat	alarm_reset_stat	R		--	Displays the commanded status of the alarm reset command.	Off	On
65	BD	ABCCommFitA	abc_comm_fit_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
66	BD	ModbusCommA	modbus_comm_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
69	BD	FP1FaultA	fp1_fault_a	R		--	Displays status of FP1 fault condition for circuit A.	Normal	Fault
71	BD	FilterAlmReset	filter_alm_reset_c	R/W	Inactive (0)	--	Used to reset the dirty filter alarm after the filter has been changed.	Off	On
72	BD	DirtyFilterAlarm	dirty_filter_alarm	R		--	Displays the status of the dirty filter alarm.	Normal	Change Filter
73	BD	CondStatA	cond_stat_a	R		--	Displays the status of the condensate input on ABC A.	Normal	Alarm
74	BD	AlarmHdwStatA	alarm_hdw_stat_a	R		--	Displays the status of the ABC A Alarm output.	Off	On
75	BD	LockHdwStatA	lock_hdw_stat_a	R		--	Displays the status of the ABC A Lockout output.	Normal	Lockout
76	BD	LockoutStatA	lockout_stat_a	R		--	Displays the lockout status of the circuit A system.	Normal	Alarm
81	BD	CompA	comp_stat_a	R		--	Displays the status of the CC compressor output on ABC A.	Off	On
82	BD	HiCompA	hi_comp_stat_a	R		--	Displays the status of the CC2 compressor output on ABC A.	Off	On
83	BD	RevVlvA	rev_vlv_stat_a	R		--	Displays the status of the reversing valve output on ABC A.	Heat	Cool
84	BD	FanA	fan_stat_a	R		--	Displays the status of the Fan relay output on ABC A.	Off	On
85	BD	EH1A	eh1_stat_a	R		--	Displays the status of the EH1 output on ABC A.	Off	On
86	BD	EH2A	eh2_stat_a	R		--	Displays the status of the EH2 output on ABC A.	Off	On
87	BD	Acc1A	acc1_stat_a	R		--	Displays the status of the ACC1 output on ABC A.	Off	On
95	BD	FP1LimA	fp1_lim_a	R		--	Displays the FP1 limit temperature for ABC A.	15 Deg	30 Deg
96	BD	FP2LimA	fp2_lim_a	R		--	Displays the FP2 limit temperature for ABC A.	15 Deg	30 Deg
97	BD	RVSetupA	rv_setup_a	R		--	Displays the reversing valve setup for ABC A.	Cooling	Heating
98	BD	SW2-4A	sw_2_4_a	R		--	Displays the position of SW2-4 on ABC A which configures the operation of ACC1.	Off	On
99	BD	SW2-5A	sw_2_5_a	R		--	Displays the position of SW2-5 on ABC A which configures the operation of ACC1.	Off	On
100	BD	CompCapA	comp_cap_a	R		--	Displays the position of SW2-6 on ABC A which selects between single and dual capacity compressor outputs.	Dual Capacity	Single Capacity
101	BD	LockOutCfgA	lockout_cfg_a	R		--	Displays the position of SW2-7 on ABC A which selects between a pulsed and continuous output for the Alarm output.	Pulsed	Continuous
102	BD	ReheatCfgA	reheat_cfg_a	R		--	Displays the position of SW2-8 on ABC A which is factory set for either reheat or normal operation.	Reheat	Normal
103	BD	SW1TestA	sw1_test_a	R		--	Displays the status of the SW1 test button on ABC A.	Off	On

N2 Points for Single Compressor Rooftop Economizer cont.

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
113	BD	Y1hdwA	y1_hdw_a	R		--	Displays the staus of the physical Y1 input on ABC A.	Off	On
114	BD	Y2hdwA	y2_hdw_a	R		--	Displays the staus of the physical Y2 input on ABC A.	Off	On
115	BD	WhdwA	w_hdw_a	R		--	Displays the staus of the physical W input on ABC A.	Off	On
116	BD	OhdwA	o_hdw_a	R		--	Displays the staus of the physical O input on ABC A.	Off	On
117	BD	GhdwA	g_hdw_a	R		--	Displays the staus of the physical G input on ABC A.	Off	On
118	BD	DHhdwA	dh_hdw_a	R		--	Displays the staus of the physical DH input on ABC A.	Off	On
119	BD	HPhdwA	hp_hdw_a	R		--	Displays the staus of the physical LP input on ABC A.	Open	Closed
120	BD	LPhdwA	lp_hdw_a	R		--	Displays the staus of the physical HP input on ABC A.	Open	Closed
121	BD	LShdwA	ls_hdw_a	R		--	Displays the staus of the physical LS input on ABC A.	Normal	LoadShed
122	BD	EShdwA	es_hdw_a	R		--	Displays the staus of the physical ES input on ABC A.	Normal	Shutdown
123	BD	ABCTestA	abc_test_mode_a	R		--	Displays the current status of the test mode for ABC A.	Off	On
135	BD	DDCenable	ddc_enable_c	R/W	Active (1)	--	Do Not Map To BAS	T-Stat	UPC
136	BD	SysComm	sys_comm	R		--	Displays the status of valid system communications with ABC controls.	Off	On
137	BD	EH1Mode	eh1_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH1 output.	Aux_Heat	Network_EH
138	BD	EH2Mode	eh2_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH2 output.	Aux_Heat	Network_EH
141	BD	BrineSelect	brine_select_c	R/W	Inactive (0)	--	Allows for the selection of the anti-freeze setting for the use of performance monitoring calculations only.	Water	Anti-Freeze
142	BD	DHenable	dh_enable_c	R/W	Inactive (0)	--	Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled
143	BD	DHWEnableA	dhw_enable_a_c	R/W	Inactive (0)	--	Allows for the network to enable/disable DHW operation on circuit A.	Off	On
145	BD	SW1ComA	sw2_1_a_c	R/W	Active (1)	--	Used to select the position of SW2-1 on ABC A for override.	15 Deg	30 Deg
146	BD	SW2ComA	sw2_2_a_c	R/W	Active (1)	--	Used to select the position of SW2-2 on ABC A for override.	15 Deg	30 Deg
147	BD	SW3ComA	sw2_3_a_c	R/W	Active (1)	--	Used to select the position of SW2-3 on ABC A for override.	Cooling	Heating
148	BD	SW4ComA	sw2_4_a_c	R/W	Active (1)	--	Used to select the position of SW2-4 on ABC A for override.	Off	On
149	BD	SW5ComA	sw2_5_a_c	R/W	Inactive (0)	--	Used to select the position of SW2-5 on ABC A for override.	Off	On
150	BD	SW6ComA	sw2_6_a_c	R/W	Inactive (0)	--	Used to select the position of SW2-6 on ABC A for override.	Dual Capacity	Single Capacity
151	BD	SW7ComA	sw2_7_a_c	R/W	Active (1)	--	Used to select the position of SW2-7 on ABC A for override.	Pulsed	Continuous
152	BD	SW8ComA	sw2-8_a_c	R/W	Active (1)	--	Used to select the position of SW2-8 on ABC A for override.	Reheat	Normal
153	BD	DipSwOvrDEnaA	dip_sw_ovrd_ena_a_c	R/W	Inactive (0)	--	Used to enable the BAS write privileges for dip switch overrides on ABC A.	Off	On
163	BD	TestModeEna	test_mode_ena_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
164	BD	ClearFaults	clear_faults_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On

N2 Points for Single Compressor Rooftop Economizer cont.

Software Version 1.01 Utilizing the Aurora UPC Controller



Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Multi State Values	State Text	
								Inactive = 0	Active = 1
1	ADI	OccManCmdMSV	occ_man_msv_c	R/W	1	--	Multi state value for selecting the system occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
2	ADI	EffOccMSV	eff_occ_msv	R		--	Multi state value displaying the current system occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby] [5 = Occupancy Sensor]	
3	ADI	LockoutEnumMSV	lockout_enum_msv	R		--	Do Not Map To BAS		
4	ADI	EconMSV	econ_msv_c	R/W	5	--	Displays and allows selection of Economizer operating mode using multi state value.	[1 = Econ Off] [2 = Fixed Temp] [3 = Diff Temp] [4 = Fixed Enthalpy] [5 = Diff Enthalpy] [6 = Slave Mode]	
5	ADI	ModeMSV	mode_msv	R		--	Multi state value to display the operating mode of the unit, refer to the mode of operations table for a description of modes.	Refer to the Mode Of Operations Table.	
6	ADI	ClgCFMOffsetMSV	clg_cfm_offset_msv_c	R/W	4	--	Multi state value for selecting dehumidification operation for ECM blower.	[1 = Htg CFM = Clg CFM] [2 = -5% CFM Clg] [3 = -10% CFM Clg] [4 = -15% CFM Clg] [5 = +5% CFM Clg]	
7	ADI	PhaseSelect	phase_select_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]	
8	ADI	FlowMeterAMSV	flow_meter_a_msv_c	R/W	6	--	Multi state value for selecting flow meter option for circuit A.	[1 = None] [2 = 3/4 Inch] [3 = 1 inch] [4 = 2 inch] [5 = 2 1/2 Inch] [6 = 1 1/4 Inch]	

**Rooftop with Economizer
N2 Pointlist for Dual Compressor**
Software Version 1.01 Utilizing the Aurora UPC Controller

N2 Points for Dual Compressor Rooftop Economizer 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	
								Inactive = 0	Active = 1
1	ADF	ZoneTemp	zone_temp	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.		
2	ADF	ZoneTempAdj	zone_temp_adj_c	R/W	0	°F	Displays and allows for the zone temperature reading to be adjusted, this is used to calibrate the zone temperature value.		
3	ADF	ZoneTempOvr	zone_temp_ovrd_c	R/W	0	°F	Allows for the Zone Temp to be overridden by the BAS if necessary, need to command BD-1 to "Active or BAS" before the override will work.		
4	ADF	ZoneHum	zone_hum	R		%rh	Displays the humidity value of the zone sensor if it is equipped with a humidity sensor.		
5	ADF	HumidityCmd	humidity_c	R/W	0	%rh	Allows for the BAS to override the space humidity value if desired.		
6	ADF	CO2stat	co2_stat	R		ppm	Displays the CO2 value if the zone sensor is equipped with the sensor		
7	ADF	CO2cmd	co2_cmd_c	R/W	0	ppm	Allows for the BAS to write the CO2 value to the UPC if desired.		
8	ADF	VOCstat	voc_stat	R		ppm	Displays the VOC value if the zone sensor is equipped with the sensor		
9	ADF	VOCcmd	voc_cmd_c	R/W	0	ppm	Allows for the BAS to write the VOC value to the UPC if desired.		
10	ADF	OccManCmdAV	occ_man_av_c	R/W	1	no units	Allows for the BAS to command the occupancy of the unit if BD-4 is set for "AV" or "Active". If BD-4 is not set for Active or AV then commands to this ADF will be ignored.		
11	ADF	EffOccStat	eff_occ_st	R		no units	Displays the current occupancy status of the system.		
12	ADF	Setpoint	occ_clg_setpt_c	R/W		°F	Displays and sets the occupied cooling set point.		
13	ADF	Setpoint	occ_htg_setpt_c	R/W		°F	Displays and sets the occupied heating set point.		
14	ADF	Setpoint	unocc_clg_setpt_c	R/W		°F	Displays and sets the unoccupied cooling set point.		
15	ADF	Setpoint	unocc_htg_setpt_c	R/W		°F	Displays and sets the unoccupied heating set point.		
16	ADF	StandbyCoolSetpt	standby_cool_setpt_c	R/W	76	°F	Displays and sets the standby cooling set point.		
17	ADF	StandbyHeatSetpt	standby_heat_setpt_c	R/W	68	°F	Displays and sets the standby heating set point.		
18	ADF	Setpoint	eff_clg_setpt_c	R/W		°F	Displays the effective cooling set point.		
19	ADF	Setpoint	eff_htg_setpt_c	R/W		°F	Displays the effective heating set point.		
20	ADF	SetPtDiff	setpt_diff_c	R/W	2	°F	Displays and sets the minimum temperature between the heating and cooling setpoints.		
21	ADF	SetPtSpan	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.		
22	ADF	TempOccTime	temp_occ_time	R		m/sec	Displays the amount of time left in temporary occupancy only while in Temp Occ.		
23	ADF	OccManValue	occ_man_value	R		no units	Displays the currently selected occupancy value.		
24	ADF	EconMode	econ_mode	R		no units	Displays the currently active Economizer mode.		
25	ADF	EconDampPos	econ_damp_pos	R		%	Displays the current damper position determined by Economizer logic.		
26	ADF	AtmPres	atm_pres_c	R/W	14.1	psi	Allows the BAS to supply the current atmospheric pressure for enthalpy calculations.		
27	ADF	ElevFeet	elev_feet_c	R/W	1000	ft	Allows the BAS to supply the current elevation for enthalpy calculations (to be converted to estimated atmospheric pressure).		
28	ADF	AirPres	air_pres	R		psi	Current atmospheric pressure value being used for enthalpy calculations.		
29	ADF	OATadjust	oat_adjust_c	R/W	0	°F	Calibration offset value for outdoor air temperature sensor.		
30	ADF	OAToverride	oat_override_c	R/W	0	°F	Allows the BAS to write the outdoor air temperature to the UPC (BD-21 must be set to use this value).		
31	ADF	OATstat	oat_stat	R		°F	Displays the current usable outdoor air temperature value.		
32	ADF	OAHadjust	oah_adjust_c	R/W	0	%rh	Calibration offset value for outdoor air humidity sensor.		
33	ADF	OAHoverride	oah_override_c	R/W	0	%rh	Allows the BAS to write the outdoor air humidity to the UPC (BD-23 must be set to use this value).		
34	ADF	OAHstat	oah_stat	R		%rh	Displays the current usable outdoor air humidity value.		
35	ADF	OutEnth	out_enth	R		Btu/lb	Displays the currently calculated outdoor air enthalpy value.		
36	ADF	OutDew	out_dew	R		°F	Displays the currently calculated outdoor air dew point value.		
37	ADF	RATadjust	rat_adjust_c	R/W	0	°F	Calibration offset value for return air temperature sensor.		
38	ADF	RAToverride	rat_override_c	R/W	0	°F	Allows the BAS to write the return air temperature to the UPC (BD-25 must be set to use this value).		

N2 Points for Dual Compressor Rooftop Economizer cont.

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
39	ADF	RATstat	rat_stat	R		°F	Displays the current usable return air temperature value.		
40	ADF	RAHadjust	rah_adjust_c	R/W	0	%rh	Calibration offset value for return air humidity sensor.		
41	ADF	RAHoverride	rah_override_c	R/W	0	%rh	Allows the BAS to write the return air humidity to the UPC (BD-27 must be set to use this value).		
42	ADF	RAHstat	rah_stat	R		%rh	Displays the current usable return air humidity value.		
43	ADF	RetEnth	ret_enth	R		Btu/lb	Displays the currently calculated return air enthalpy value.		
44	ADF	RetDew	ret_dew	R		°F	Displays the currently calculated return air dew point value.		
45	ADF	EconAV	econ_av_c	R/W	5	no units	Displays and allows selection of Economizer operating mode using numeric value.		
46	ADF	DBSetPt	db_setpt_c	R/W	63	°F	Displays and allows adjustment of dry bulb set point for Economizer operation.		
47	ADF	DBLimit	db_limit_c	R/W	75	°F	Displays and allows adjustment of dry bulb limit for Economizer operation.		
48	ADF	DBDiff	db_diff_c	R/W	2	°F	Displays and allows adjustment of dry bulb differential for Economizer operation.		
49	ADF	EnthSetPt	enth_setpt_c	R/W	24	Btu/lb	Displays and allows adjustment of the enthalpy set point for Economizer operation.		
50	ADF	EnthLimit	enth_limit_c	R/W	30	Btu/lb	Displays and allows adjustment of the enthalpy limit for Economizer operation.		
51	ADF	EnthDiff	enth_diff_c	R/W	2	Btu/lb	Displays and allows adjustment of the enthalpy differential for Economizer operation.		
52	ADF	MASetPt	ma_setpt_c	R/W	53	°F	Displays and allows adjustment of mixed air set point for Economizer operation.		
53	ADF	MinDmpPos	min_dmp_pos_c	R/W	30	%	Displays and allows adjustment of the minimum damper position for Economizer operation.		
54	ADF	MinLATLim	min_lat_lim_c	R/W	45	°F	Displays and allows adjustment of the minimum leaving air temperature set point for Economizer operation.		
55	ADF	MinOATClg	min_oat_clg_c	R/W	40	°F	Displays and allows adjustment of minimum outdoor air temperature for mechanical cooling operation.		
56	ADF	MinOATVent	min_oat_vent_c	R/W	0	°F	Displays and allows adjustment of the minimum outdoor temperature for ventilation operation.		
57	ADF	MaxDCVPos	max_dcv_pos_c	R/W	40	%	Displays and allows adjustment of the maximum damper position for demand controlled ventilation.		
58	ADF	LowDCVval	low_dcv_val_c	R/W	600	ppm	Displays and allows adjustment of the lower variable value for demand controlled ventilation associated with the minimum damper position.		
59	ADF	HighDCVval	high_dcv_val_c	R/W	1200	ppm	Displays and allows adjustment of the upper variable value for demand controlled ventilation associated with the maximum demand controlled ventilation position.		
60	ADF	SamTime	sam_time_c	R/W	60	seconds	Displays and allows adjustment of the outdoor air temperature sampling time for Economizer operation.		
61	ADF	DmpCool	dmp_cool_c	R/W	75	%	Displays and allows adjustment of the minimum damper position allowed for mechanical cooling operation with the Economizer active.		
62	ADF	CompUpTime	comp_up_time_c	R/W	120	seconds	Displays and allows adjustment of the minimum time required for upstaging with Economizer operation.		
63	ADF	CompDnTime	comp_dn_time_c	R/W	120	seconds	Displays and allows adjustment of the maximum time required for upstaging with Economizer operation.		
64	ADF	NATime	na_time_c	R/W	60	seconds	Displays and allows adjustment of the damper adjustment time during neutral air operation.		
65	ADF	ActiveSetPt	active_setpt	R		°F	Displays the set point that is controlling the call for the compressor.		
66	ADF	NeutSetPt	neut_setpt	R		°F	Displays the current neutral air setpoint used by the Economizer logic for neutral air delivery.		
67	ADF	ModeAV	mode_av	R		no units	Numeric value to display the operating mode of the unit, refer to the mode of operations table for a description of modes.		
68	ADF	ManECMSpeed	man_ecm_speed_c	R/W	0	no units	Do Not Map To BAS		
69	ADF	ECMOverride	ecm_override	R		no units	Do Not Map To BAS		
70	ADF	ManVSPumpA	man_vs_pump_a_c	R/W	0	%	Do Not Map To BAS		
71	ADF	ManVSPumpB	man_vs_pump_b_c	R/W	0	%	Do Not Map To BAS		
72	ADF	ManDampPos	man_damp_pos_c	R/W	0	%	Do Not Map To BAS		
73	ADF	ActualDampPos	actual_damp_pos	R		%	Displays the current damper target position.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
74	ADF	FP1SetPtA	fp1_setpt_a	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit A.		
75	ADF	FP2SetPtA	fp2_setpt_a	R		°F	Displays the FP2 freeze detection limit (air coil temp) for circuit A.		
76	ADF	FP1SetPtB	fp1_setpt_b	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit B.		
77	ADF	FP2SetPtB	fp2_setpt_b	R		°F	Displays the FP2 freeze detection limit (air coil temp) for circuit B.		
78	ADF	FilterAlmHrs	filter_alm_hrs_c	R/W	1000	hr	Allows for adjustment to the filter alarm hours, adjust this value to set the number of fan run hours.		
79	ADF	FilterHours	filter_hours	R		hr	Displays the number of fan run hours since the last filter alarm reset.		
80	ADF	LockStatRegA	lock_stat_reg_a	R		no units	Do Not Map To BAS		
81	ADF	AlarmEnumA	alarm_enum_a	R		no units	Displays alarm value for ABC A		
82	ADF	LockStatRegB	lock_stat_reg_b	R		no units	Do Not Map To BAS		
83	ADF	AlarmEnumB	alarm_enum_b	R		no units	Displays alarm value for ABC B		
84	ADF	AlarmEnum	alarm_enum	R		no units	Displays combined system alarm value		
85	ADF	ECMSpeedSwA	ecm_speed_sw_a	R		no units	Displays the current ECM target speed.		
86	ADF	ECMpwmPctA	ecm_pwm_pct_a	R		%	Displays the current ECM PWM output percentage.		
87	ADF	VSPumpSpdA	vs_pump_spd_stat_a	R		%	Displays the current target % of the VS Pump output for circuit A.		
88	ADF	VSPumpPctA	vs_pump_pct_stat_a	R		%	Displays the current operating % of the VS Pump output for circuit A.		
89	ADF	VSPumpSpdB	vs_pump_spd_stat_b	R		%	Displays the current target % of the VS Pump output for circuit B.		
90	ADF	VSPumpPctB	vs_pump_pct_stat_b	R		%	Displays the current operating % of the VS Pump output for circuit B.		
91	ADF	CoaxTempA	coax_temp_stat_a	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit A on ABC A.		
92	ADF	AirCoilTempA	air_coil_temp_stat_a	R		°F	Displays the temperature of the refrigerant at the air coil associated with circuit A on ABC A.		
93	ADF	CoaxTempB	coax_temp_stat_b	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit B on ABC B.		
94	ADF	AirCoilTempB	air_coil_temp_stat_b	R		°F	Displays the temperature of the refrigerant at the air coil associated with circuit B on ABC B.		
95	ADF	LWTA	lwt_stat_a	R		°F	Displays the value of the LWT Input on circuit A if the sensing hardware is present.		
96	ADF	EWTA	ewt_stat_a	R		°F	Displays the value of the EWT Input on circuit A if the sensing hardware is present.		
97	ADF	WaterFlowA	water_flow_stat_a	R		gpm	Displays the GPM flow rate of circuit A if the sensing hardware is present.		
98	ADF	LoopPresA	loop_pres_stat_a	R		psi	Displays the loop pressure for circuit A if the sensing hardware is present.		
99	ADF	AXBLATA	lat_stat	R		°F	Displays the leaving air temperature that is connected to the AXB A.		
100	ADF	SuctPressStatA	suct_press_stat_a	R		psi	Displays the suction pressure of circuit A if the sensing hardware is present.		
101	ADF	DischPressStatA	disch_press_stat_a	R		psi	Displays the discharge pressure of circuit A if the sensing hardware is present.		
102	ADF	SuctTempStatA	suct_temp_stat_a	R		°F	Displays the suction temperature of circuit A if the sensing hardware is present.		
103	ADF	DischTempStatA	disch_temp_stat_a	R		°F	Displays the discharge temperature of circuit A if the sensing hardware is present.		
104	ADF	LiqLineTempStatA	liq_line_temp_stat_a	R		°F	Displays the heating liquid line temperature for circuit A if the sensing hardware is present.		
105	ADF	SatEvapTempStatA	sat_evap_temp_stat_a	R		°F	Displays the saturated evaporator temperature for circuit A if the sensing hardware is present.		
106	ADF	CondTempStatA	cond_temp_stat_a	R		°F	Displays the condensor temperature for circuit A if the sensing hardware is present.		
107	ADF	EstLineVoltageStatA	est_line_voltage_stat_a	R		V	Displays the estimated line voltage at circuit A based on the measured control voltage and current line voltage calibration value.		
108	ADF	ControlVoltageStatA	control_voltage_stat_a	R		V	Displays the low voltage circuit value that is powering the ABC A.		
109	ADF	HotWaterTempStatA	hot_wtr_temp_stat_a	R		°F	Displays the hot water temperature input for circuit A if the sensing hardware is present.		
110	ADF	UnivInputStatA	univ_input_stat_a	R		no units	Displays the raw count value of the circuit A universal input.		
111	ADF	SuperheatStatA	superheat_stat_a	R		°F	Displays the super heat of circuit A if the sensing hardware is present.		
112	ADF	HtgSubcoolStatA	htg_subcool_stat_a	R		°F	Displays the sub cooling calculation in the heating mode of circuit A if the sensing hardware is present		
113	ADF	ClgSubcoolStatA	clg_subcool_stat_a	R		°F	Displays the sub cooling calculation in the cooling mode of circuit A if the sensing hardware is present		
114	ADF	FanCurrentStatA	fan_current_stat_a	R		A	Displays the amp draw for the Fan output on circuit A if the sensing hardware is present.		
115	ADF	AuxCurrentStatA	aux_current_stat_a	R		A	Displays the amp draw for the Auxiliary output on circuit A if the sensing hardware is present.		
116	ADF	CompCurrentStatA	comp_current_stat_a	R		A	Displays the compressor amp draw on L1 or L2 on circuit A if the sensing hardware is present.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
117	ADF	Comp1CurrentStatA	comp1_current_stat_a	R		A	Displays the compressor amp draw on L1 or L2 on circuit A if the sensing hardware is present.		
118	ADF	TotalAmpsStatA	total_amps_stat_a	R		A	Displays the calculated total amp draw for circuit A if the sensing hardware is present.		
119	ADF	CompPowerStatA	comp_power_stat_a	R		W	Calculates and displays the compressor power of circuit A if the sensing hardware is present.		
120	ADF	FanPowerStatA	fan_power_stat_a	R		W	Displays the watt usage for Fan output on circuit A if the sensing hardware is present.		
121	ADF	AuxPowerStatA	aux_power_stat_a	R		W	Displays the watt usage for Auxiliary output on circuit A if the sensing hardware is present.		
122	ADF	TotalPowerStatA	total_power_stat_a	R		W	Displays the calculated total watt usage for circuit A if the sensing hardware is present.		
123	ADF	HEHR_StatA	he_hr_stat_a	R		Btu/hr	Calculates and displays the heat of rejection and heat of extraction for circuit A if the sensing hardware is present.		
124	ADF	TotalCapStatA	total_cap_stat_a	R		Btu/hr	Displays the calculated value for circuit A total capacity if the sensing hardware is present.		
125	ADF	COPStatA	cop_stat_a	R		no units	Displays the calculated C.O.P of circuit A if the sensing hardware is present.		
126	ADF	EERStatA	eer_stat_a	R		no units	Displays the EER calculation of circuit A if the sensing hardware is present		
144	ADF	LWTB	lwt_stat_b	R		°F	Displays the value of the LWT Input on circuit B if the sensing hardware is present.		
145	ADF	EWTB	ewt_stat_b	R		°F	Displays the value of the EWT Input on circuit B if the sensing hardware is present.		
146	ADF	WaterFlowB	water_flow_stat_b	R		gpm	Displays the GPM flow rate of circuit B if the sensing hardware is present.		
147	ADF	LoopPresB	loop_pres_stat_b	R		psi	Displays the loop pressure for circuit B if the sensing hardware is present.		
148	ADF	AXBLATB	lat_stat_b	R		°F	Displays the value of the sensor connected to the leaving air temperature input on the AXB Board B.		
150	ADF	SuctPressStatB	suct_press_stat_b	R		psi	Displays the suction pressure of circuit B if the sensing hardware is present.		
151	ADF	DischPressStatB	disch_press_stat_b	R		psi	Displays the discharge pressure of circuit B if the sensing hardware is present.		
152	ADF	SuctTempStatB	suct_temp_stat_b	R		°F	Displays the suction temperature of circuit B if the sensing hardware is present.		
153	ADF	DischTempStatB	disch_temp_stat_b	R		°F	Displays the discharge temperature of circuit B if the sensing hardware is present.		
154	ADF	LiqLineTempStatB	liq_line_temp_stat_b	R		°F	Displays the heating liquid line temperature for circuit B if the sensing hardware is present.		
155	ADF	SatEvapTempStatB	sat_evap_temp_stat_b	R		°F	Displays the saturated evaporator temperature for circuit B if the sensing hardware is present.		
156	ADF	CondTempStatB	cond_temp_stat_b	R		°F	Displays the condensor temperature for circuit B if the sensing hardware is present.		
157	ADF	EstLineVoltageStatB	est_line_voltage_stat_b	R		V	Displays the estimated line voltage at circuit B based on the measured control voltage and current line voltage calibration value.		
158	ADF	ControlVoltageStatB	control_voltage_stat_b	R		V	Displays the low voltage circuit value that is powering the ABC B.		
159	ADF	HotWaterTempStatB	hot_wtr_temp_stat_b	R		°F	Displays the hot water temperature input for circuit B if the sensing hardware is present.		
160	ADF	UnivInputStatB	univ_input_stat_b	R		no units	Displays the raw count value of the circuit B universal input.		
161	ADF	SuperheatStatB	superheat_stat_b	R		°F	Displays the super heat of circuit B if the sensing hardware is present.		
162	ADF	HtgSubcoolStatB	htg_subcool_stat_b	R		°F	Displays the sub cooling calculation in the heating mode of circuit B if the sensing hardware is present		
163	ADF	ClgSubcoolStatB	clg_subcool_stat_b	R		°F	Displays the sub cooling calculation in the cooling mode of circuit B if the sensing hardware is present		
164	ADF	FanCurrentStatB	fan_current_stat_b	R		A	Displays the amp draw for the Fan output on circuit B if the sensing hardware is present.		
165	ADF	AuxCurrentStatB	aux_current_stat_b	R		A	Displays the amp draw for the Auxiliary output on circuit B if the sensing hardware is present.		
166	ADF	CompCurrentStatB	comp_current_stat_b	R		A	Displays the compressor amp draw on L1 or L2 on circuit B if the sensing hardware is present.		
167	ADF	Comp1CurrentStatB	comp1_current_stat_b	R		A	Displays the compressor amp draw on L1 or L2 on circuit B if the sensing hardware is present.		
168	ADF	TotalAmpsStatB	total_amps_stat_b	R		A	Displays the calculated total amp draw for circuit B if the sensing hardware is present.		
169	ADF	CompPowerStatB	comp_power_stat_b	R		W	Calculates and displays the compressor power of circuit B if the sensing hardware is present.		
170	ADF	FanPowerStatB	fan_power_stat_b	R		W	Displays the watt usage for Fan output on circuit B if the sensing hardware is present.		
171	ADF	AuxPowerStatB	aux_power_stat_b	R		W	Displays the watt usage for Auxiliary output on circuit B if the sensing hardware is present.		
172	ADF	TotalPowerStatB	total_power_stat_b	R		W	Displays the calculated total watt usage for circuit B if the sensing hardware is present.		
173	ADF	HEHR_StatB	he_hr_stat_b	R		Btu/hr	Calculates and displays the heat of rejection and heat of extraction for circuit B if the sensing hardware is present.		
174	ADF	TotalCapStatB	total_cap_stat_b	R		Btu/hr	Displays the calculated value for circuit A total capacity if the sensing hardware is present.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
175	ADF	COPStatB	cop_stat_b	R		no units	Displays the calculated C.O.P of circuit B if the sensing hardware is present.		
176	ADF	EERStatB	eer_stat_b	R		no units	Displays the EER calculation of circuit B if the sensing hardware is present		
177	ADF	HEHR_StatCombined	he_hr_stat_combined	R		Btu/hr	Displays the heat of extraction and heat of rejection calculation of both circuits if the sensing hardware is present.		
178	ADF	TotalCapStatCombined	total_cap_stat_combined	R		Btu/hr	Calculates and displays the combined capacity of both circuits if the sensing hardware is present.		
179	ADF	TotalPowerStatCombined	total_power_stat_combined	R		W	Calculates and displays the combined total power of both circuits if the sensing hardware is present.		
181	ADF	LowECMSpd	low_ecm_spd_c	R/W	3	no units	Displays and allows for the low speed ECM airflow setting to be adjusted.		
182	ADF	MedECMSpd	med_ecm_spd_c	R/W	7	no units	Displays and allows for the medium speed ECM airflow setting to be adjusted.		
183	ADF	HighECMSpd	high_ecm_spd_c	R/W	11	no units	Displays and allows for the high speed ECM airflow setting to be adjusted.		
184	ADF	AuxHtECMSpd	aux_ht_ecm_spd_c	R/W	12	no units	Displays and allows for the auxiliary heat speed ECM airflow setting to be adjusted.		
185	ADF	BlwrOffDelaySet	blwr_off_delay_c	R/W	30	seconds	Allows adjustment of the time that the blower stays on after the compressor shuts off if the blower is set for cycled operation.		
186	ADF	ClgCFMOffsetAV	clg_cfm_offset_av_c	R/W	4	no units	Numeric value for selecting dehumidification operation for ECM blower.		
187	ADF	OccDehumSetpt	occ_dehum_setpt_c	R/W	53	%rh	Allows for the adjustment of the occupied dehumidification set point.		
188	ADF	UnnoccDehumSetpt	unocc_dehum_setpt_c	R/W	75	%rh	Allows for the adjustment of the unoccupied dehumidification set point.		
189	ADF	DehumSetPt	dehum_setpt	R		%rh	Displays the currently active dehumidification setpoint.		
190	ADF	DehumDiff	dehum_diff_c	R/W	5	%rh	Allows for the adjustment of the dehumidification differential, or deadband for operation.		
191	ADF	VSPumpMinSpdA	vs_pump_min_spd_a_c	R/W	50	%	Displays and allows for the VS Pump minimum speed setting to be adjusted for circuit A.		
192	ADF	VSPumpMaxSpdA	vs_pump_max_spd_a_c	R/W	100	%	Displays and allows for the VS Pump maximum speed setting to be adjusted for circuit A.		
193	ADF	PumpOptionA	pump_opt_a_c	R/W	0	no units	Displays and allows selection of the pump or loop option for circuit A.		
194	ADF	VSPumpMinSpdB	vs_pump_min_spd_b_c	R/W	50	%	Displays and allows for the VS Pump minimum speed setting to be adjusted for circuit B.		
195	ADF	VSPumpMaxSpdB	vs_pump_max_spd_b_c	R/W	100	%	Displays and allows for the VS Pump maximum speed setting to be adjusted for circuit B.		
196	ADF	PumpOptionB	pump_opt_b_c	R/W	0	no units	Displays and allows selection of the pump or loop option for circuit B.		
197	ADF	FlowMeterA	flow_meter_a_c	R/W	0	no units	Displays and allows selection of the flow meter option for circuit A.		
198	ADF	FlowMeterB	flow_meter_b_c	R/W	0	no units	Displays and allows selection of the flow meter option for circuit B.		
199	ADF	DHWSetptA	dhw_setpt_a_c	R/W	130	°F	Displays and allows selection of the hot water setpoint for circuit A.		
200	ADF	DHWSetptB	dhw_setpt_b_c	R/W	130	°F	Displays and allows selection of the hot water setpoint for circuit B.		
201	ADF	EnergyMonA	energy_mon_a_c	R/W	0	no units	Displays and allows selection of the energy monitor option for circuit A.		
202	ADF	EnergyMonB	energy_mon_b_c	R/W	0	no units	Displays and allows selection of the energy monitor option for circuit B.		
203	ADF	Acc1DelayA	acc1_delay_a_c	R/W	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output on circuit A.		
204	ADF	Acc1DelayB	acc1_delay_b_c	R/W	90	seconds	Allows for the network to adjust the time delay of the ACC-1 output on circuit B.		
205	ADF	MeasuredLineVolts	measured_line_volts_c	R/W	230	V	Allows for calibration of the line voltage reading, measure the incoming line voltage and enter the value here, this is used to improve the accuracy of the performance monitoring data.		
206	ADF	BlowerConfig	blower_config_c	R/W	9	no units	Displays and allows selection of the blower configuration.		
Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
1	BD	TempSelector	temp_selector_c	R/W	Inactive (0)	--	Used to select between wall sensor and BAS for space temperature value.	Sensor	BAS
2	BD	ValidSensor	valid_sensor	R		--	Displays current status of having a valid space temperature value.	Off	On
3	BD	ScheduleSelectCmd	schedule_select_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
4	BD	OccCmdSelect	occ_cmd_select_c	R/W	Inactive (0)	--	Occupancy command selection between ADF-10 & ADI-1.	MSV	AV
5	BD	OccSensorEnable	occ_sensor_enable_c	R/W	Inactive (0)	--	Enables or disables occupancy sensor connected to ABC O input.	Disabled	Enabled
6	BD	OccManCmdBV	occ_man_cmd_bv_c	R/W	Inactive (0)	--	BAS occupancy signal.	Off	On

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
7	BD	TempOcc	temp_occ_c	R/W	Active (1)	--	Enables or disables temporary occupancy at zone sensors.	Enable	Disable
8	BD	TempOccStat	temp_occ_stat	R		--	Displays temporary occupancy status.	Normal	Temp Occ
9	BD	NotUnoccupied	not_unoccupied	R		--	Do Not Map To BAS	Off	On
10	BD	FanOccupied	fan_occupied	R		--	Do Not Map To BAS	Off	On
11	BD	ArchiveNow	archive_now_c	R/W	Inactive (0)	--	Forces UPC to Archive the current system settings and database values.	No	Yes
12	BD	EconOn	econ_on_c	R/W	Inactive (0)	--	BAS value to indicate Economizer is available for operation when being controlled in the slave mode.	Off	On
13	BD	EconAvail	econ_avail	R		--	Displays current availability fo Economizer for free cooling.	Not Avail	Available
14	BD	LVTStatus	lvt_status	R		--	Indicates if the low outdoor temperature ventilation logic is active.	Inactive	Active
15	BD	DCVStatus	dcv_status	R		--	Indicates if demand controlled ventilation logic is active.	Inactive	Active
16	BD	EconStat	econ_stat	R		--	Indicates if economizer operation is active.	Off	On
17	BD	LowLAT	low_lat	R		--	Indicates if Low LAT logic is active.	Off	On
18	BD	Y1Demand	y1_demand	R		--	Indicates that Economizer logic is passing on a Y1 compressor demand.	Off	On
19	BD	Y2Demand	y2_demand	R		--	Indicates that Economizer logic is passing on a Y2 compressor demand.	Off	On
20	BD	PresSelect	pres_select_c	R/W	Inactive (0)	--	Selects between atmospheric pressure and elevation for enthalpy calculations.	Pressure	Elevation
21	BD	OATselect	oat_select_c	R/W	Inactive (0)	--	Selection value for OAT source	Sensor	BAS
22	BD	OATvalid	oat_valid	R		--	Indication that a valid OAT value is present.	Off	On
23	BD	OAHselect	oah_select_c	R/W	Inactive (0)	--	Selection value for OAH source	Sensor	BAS
24	BD	OAHvalid	oah_valid	R		--	Indication that a valid OAH value is present.	Off	On
25	BD	RATselect	rat_select_c	R/W	Inactive (0)	--	Selection value for RAT source	Sensor	BAS
26	BD	RATvalid	rat_valid	R		--	Indication that a valid RAT value is present.	Off	On
27	BD	RAHselect	rah_select_c	R/W	Inactive (0)	--	Selection value for RAH source	Sensor	BAS
28	BD	RAHvalid	rah_valid	R		--	Indication that a valid RAH value is present.	Off	On
29	BD	LowLATPos	low_lat_pos_c	R/W	Active (1)	--	Selects the minimum damper position for operation with low LAT conditions.	Min Position	Closed
30	BD	NoDemEcon	no_dem_econ_c	R/W	Active (1)	--	Selects operation of the Economizer with no heating or cooling demand present when economizer operation is available.	Min Position	Neutral Air
31	BD	DemCtrlVent	dem_ctrl_vent_c	R/W	Inactive (0)	--	Enables or disables Demand Controlled Ventlation.	Disabled	Enabled
32	BD	DCVvariable	dcv_variable_c	R/W	Inactive (0)	--	Selects the control variable for Demand Controlled Ventilation.	CO2	VOC
33	BD	FanOperation	fan_operation_c	R/W	Active (1)	--	Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
34	BD	EmShutdown	em_shutdown_c	R/W	Inactive (0)	--	Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
35	BD	ESstat	es_stat	R		--	Emergency Shutdown status of System.	Normal	Shutdown
36	BD	ESstatA	es_stat_a	R		--	Emergency Shutdown status of ABC A.	Normal	Shutdown
37	BD	ESstatB	es_stat_b	R		--	Emergency Shutdown status of ABC B.	Normal	Shutdown
38	BD	LoadShed	load_shed_c	R/W	Inactive (0)	--	Allows for the network to issue a load shed command to the unit	Off	On
39	BD	LSstatA	ls_stat_a	R		--	Load Shed status of ABC A.	Normal	Load Shed
40	BD	LSstatB	ls_stat_b	R		--	Load Shed status of ABC B.	Normal	Load Shed

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
41	BD	Y1Dem	y1_dem	R		--	Displays the status of the Y1 demand calculated by the internal PID logic.	Off	On
42	BD	Y2Dem	y2_dem	R		--	Displays the status of the Y2 demand calculated by the internal PID logic.	Off	On
43	BD	NetworkY1	network_y1_c	R/W	Inactive (0)	--	Used to generate a Y1 demand from BAS.	Off	On
44	BD	NetworkY2	network_y2_c	R/W	Inactive (0)	--	Used to generate a Y2 demand from BAS.	Off	On
45	BD	NetworkW	network_w_c	R/W	Inactive (0)	--	Used to generate a W demand from BAS.	Off	On
46	BD	NetworkO	network_o_c	R/W	Inactive (0)	--	Used to generate a O demand from BAS.	Off	On
47	BD	NetworkG	network_g_c	R/W	Inactive (0)	--	Used to generate a G demand from BAS.	Off	On
48	BD	NetworkDH	network_dh_c	R/W	Inactive (0)	--	Used to generate a DH demand from BAS.	Off	On
49	BD	EH1OverCmd	eh1_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH1 output from BAS.	Off	On
50	BD	EH2OverCmd	eh2_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH2 output from BAS.	Off	On
51	BD	EH3OverCmd	eh3_override_c	R/W	Inactive (0)	--	Used to directly control the ABC B EH1 output from BAS.	Off	On
52	BD	EH4OverCmd	eh4_override_c	R/W	Inactive (0)	--	Used to directly control the ABC B EH2 output from BAS.	Off	On
53	BD	LeadLagEnable	lead_lag_enable_c	R/W	Active (1)	--	Displays and allows selection of compressor lead / lag operation.	Off	On
54	BD	Y1CmdStat	y1_cmd_stat	R		--	Displays the status of the ABC A Y1 call from the UPC	Off	On
55	BD	Y2CmdStat	y2_cmd_stat	R		--	Displays the status of the ABC B Y1 call from the UPC	Off	On
56	BD	WCmdStat	w_cmd_stat	R		--	Displays the status of the ABC W call from the UPC	Off	On
57	BD	OCmdStat	o_cmd_stat	R		--	Displays the status of the ABC O call from the UPC	Heating	Cooling
58	BD	GCmdStat	g_cmd_stat	R		--	Displays the status of the ABC G call from the UPC	Off	On
59	BD	DHCmdStat	dh_cmd_stat	R		--	Displays the status of the ABC DH call from the UPC	Off	On
60	BD	ManualECM	manual_ecm_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
61	BD	ManVSPump	man_vs_pump_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
62	BD	ManDamp	man_damp_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
63	BD	AlarmResetCmd	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
64	BD	AlarmResetStat	alarm_reset_stat	R		--	Displays the commanded status of the alarm reset command.	Off	On
65	BD	ABCCommFltA	abc_comm_fl_t_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
66	BD	ModbusCommA	modbus_comm_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
67	BD	ABCCommFltB	abc_comm_fl_t_b	R		--	Displays the status of the Modbus communication between the ABC B and the UPC	Normal Communication	Communication Fault
68	BD	ModbusCommB	modbus_comm_b	R		--	Displays the status of the Modbus communication between the ABC B and the UPC	Normal Communication	Communication Fault
69	BD	FP1FaultA	fp1_fault_a	R		--	Displays status of FP1 fault condition for circuit A.	Normal	Fault
70	BD	FP1FaultB	fp1_fault_b	R		--	Displays status of FP1 fault condition for circuit B.	Normal	Fault
71	BD	FilterAlmReset	filter_alm_reset_c	R/W	Inactive (0)	--	Used to reset the dirty filter alarm after the filter has been changed.	Off	On
72	BD	DirtyFilterAlarm	dirty_filter_alarm	R		--	Displays the status of the dirty filter alarm.	Normal	Change Filter
73	BD	CondStatA	cond_stat_a	R		--	Displays the status of the condensate input on ABC A.	Normal	Alarm
74	BD	AlarmHdwStatA	alarm_hdw_stat_a	R		--	Displays the status of the ABC A Alarm output.	Off	On
75	BD	LockHdwStatA	lock_hdw_stat_a	R		--	Displays the status of the ABC A Lockout output.	Normal	Lockout
76	BD	LockoutStatA	lockout_stat_a	R		--	Displays the lockout status of the circuit A system.	Normal	Alarm
77	BD	CondStatB	cond_stat_b	R		--	Displays the status of the condensate input on ABC B.	Normal	Alarm

N2 Points for Dual Compressor Rooftop Economizer cont.

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
78	BD	AlarmHdwStatB	alarm_hdw_stat_b	R		--	Displays the status of the ABC B Alarm output.	Off	On
79	BD	LockHdwStatB	lock_hdw_stat_b	R		--	Displays the status of the ABC B Lockout output.	Normal	Lockout
80	BD	LockoutStatB	lockout_stat_b	R		--	Displays the lockout status of the circuit B system.	Normal	Alarm
81	BD	CompA	comp_stat_a	R		--	Displays the status of the CC compressor output on ABC A.	Off	On
82	BD	HiCompA	hi_comp_stat_a	R		--	Displays the status of the CC2 compressor output on ABC A.	Off	On
83	BD	RevVlvA	rev_vlv_stat_a	R		--	Displays the status of the reversing valve output on ABC A.	Heat	Cool
84	BD	FanA	fan_stat_a	R		--	Displays the status of the Fan relay output on ABC A.	Off	On
85	BD	EH1A	eh1_stat_a	R		--	Displays the status of the EH1 output on ABC A.	Off	On
86	BD	EH2A	eh2_stat_a	R		--	Displays the status of the EH2 output on ABC A.	Off	On
87	BD	Acc1A	acc1_stat_a	R		--	Displays the status of the ACC1 output on ABC A.	Off	On
88	BD	CompB	comp_stat_b	R		--	Displays the status of the CC compressor output on ABC B.	Off	On
89	BD	HiCompB	hi_comp_stat_b	R		--	Displays the status of the CC2 compressor output on ABC B.	Off	On
90	BD	RevVlvB	rev_vlv_stat_b	R		--	Displays the status of the reversing valve output on ABC B.	Heat	Cool
91	BD	FanB	fan_stat_b	R		--	Displays the status of the Fan relay output on ABC B.	Off	On
92	BD	EH1B	eh1_stat_b	R		--	Displays the status of the EH1 output on ABC B.	Off	On
93	BD	EH2B	eh2_stat_b	R		--	Displays the status of the EH2 output on ABC B.	Off	On
94	BD	Acc1B	acc1_stat_b	R		--	Displays the status of the ACC1 output on ABC B.	Off	On
95	BD	FP1LimA	fp1_lim_a	R		--	Displays the FP1 limit temperature for ABC A.	15 Deg	30 Deg
96	BD	FP2LimA	fp2_lim_a	R		--	Displays the FP2 limit temperature for ABC A.	15 Deg	30 Deg
97	BD	RVSetupA	rv_setup_a	R		--	Displays the reversing valve setup for ABC A.	Cooling	Heating
98	BD	SW2-4A	sw_2_4_a	R		--	Displays the position of SW2-4 on ABC A which configures the operation of ACC1.	Off	On
99	BD	SW2-5A	sw_2_5_a	R		--	Displays the position of SW2-5 on ABC A which configures the operation of ACC1.	Off	On
100	BD	CompCapA	comp_cap_a	R		--	Displays the position of SW2-6 on ABC A which selects between single and dual capacity compressor outputs.	Dual Capacity	Single Capacity
101	BD	LockOutCfgA	lockout_cfg_a	R		--	Displays the position of SW2-7 on ABC A which selects between a pulsed and continuous output for the Alarm output.	Pulsed	Continuous
102	BD	ReheatCfgA	reheat_cfg_a	R		--	Displays the position of SW2-8 on ABC A which is factory set for either reheat or normal operation.	Reheat	Normal
103	BD	SW1TestA	sw1_test_a	R		--	Displays the status of the SW1 test button on ABC A.	Off	On
104	BD	FP1LimB	fp1_lim_b	R		--	Displays the FP1 limit temperature for ABC B.	15 Deg	30 Deg
105	BD	FP2LimB	fp2_lim_b	R		--	Displays the FP2 limit temperature for ABC B.	15 Deg	30 Deg
106	BD	RVSetupB	rv_setup_b	R		--	Displays the reversing valve setup for ABC B.	Cooling	Heating
107	BD	SW2-4B	sw_2_4_b	R		--	Displays the position of SW2-4 on ABC B which configures the operation of ACC1.	Off	On
108	BD	SW2-5B	sw_2_5_b	R		--	Displays the position of SW2-5 on ABC B which configures the operation of ACC1.	Off	On
109	BD	CompCapB	comp_cap_b	R		--	Displays the position of SW2-6 on ABC B which selects between single and dual capacity compressor outputs.	Dual Capacity	Single Capacity
110	BD	LockOutCfgB	lockout_cfg_b	R		--	Displays the position of SW2-7 on ABC B which selects between a pulsed and continuous output for the Alarm output.	Pulsed	Continuous

N2 Points for Dual Compressor Rooftop Economizer cont.

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
111	BD	ReheatCfgB	reheat_cfg_b	R		--	Displays the position of SW2-8 on ABC B which is factory set for either reheat or normal operation.	Reheat	Normal
112	BD	SW1TestB	sw1_test_b	R		--	Displays the status of the SW1 test button on ABC B.	Off	On
113	BD	Y1hdwA	y1_hdw_a	R		--	Displays the staus of the physical Y1 input on ABC A.	Off	On
114	BD	Y2hdwA	y2_hdw_a	R		--	Displays the staus of the physical Y2 input on ABC A.	Off	On
115	BD	WhdwA	w_hdw_a	R		--	Displays the staus of the physical W input on ABC A.	Off	On
116	BD	OhdwA	o_hdw_a	R		--	Displays the staus of the physical O input on ABC A.	Off	On
117	BD	GhdwA	g_hdw_a	R		--	Displays the staus of the physical G input on ABC A.	Off	On
118	BD	DHhdwA	dh_hdw_a	R		--	Displays the staus of the physical DH input on ABC A.	Off	On
119	BD	HPhdwA	hp_hdw_a	R		--	Displays the staus of the physical LP input on ABC A.	Open	Closed
120	BD	LPhdwA	lp_hdw_a	R		--	Displays the staus of the physical HP input on ABC A.	Open	Closed
121	BD	LShdwA	ls_hdw_a	R		--	Displays the staus of the physical LS input on ABC A.	Normal	LoadShed
122	BD	EShdwA	es_hdw_a	R		--	Displays the staus of the physical ES input on ABC A.	Normal	Shutdown
123	BD	ABCTestA	abc_test_mode_a	R		--	Displays the current status of the test mode for ABC A.	Off	On
124	BD	Y1hdwB	y1_hdw_b	R		--	Displays the staus of the physical Y1 input on ABC B.	Off	On
125	BD	Y2hdwB	y2_hdw_b	R		--	Displays the staus of the physical Y2 input on ABC B.	Off	On
126	BD	WhdwB	w_hdw_b	R		--	Displays the staus of the physical W input on ABC B.	Off	On
127	BD	OhdwB	o_hdw_b	R		--	Displays the staus of the physical O input on ABC B.	Off	On
128	BD	GhdwB	g_hdw_b	R		--	Displays the staus of the physical G input on ABC B.	Off	On
129	BD	DHhdwB	dh_hdw_b	R		--	Displays the staus of the physical DH input on ABC B.	Off	On
130	BD	HPhdwB	hp_hdw_b	R		--	Displays the staus of the physical LP input on ABC B.	Open	Closed
131	BD	LPhdwB	lp_hdw_b	R		--	Displays the staus of the physical HP input on ABC B.	Open	Closed
132	BD	LShdwB	ls_hdw_b	R		--	Displays the staus of the physical LS input on ABC B.	Normal	LoadShed
133	BD	EShdwB	es_hdw_b	R		--	Displays the staus of the physical ES input on ABC B.	Normal	Shutdown
134	BD	ABCTestB	abc_test_mode_b	R		--	Displays the current status of the test mode for ABC B.	Off	On
135	BD	DDCenable	ddc_enable_c	R/W	Active (1)	--	Do Not Map To BAS	T-Stat	UPC
136	BD	SysComm	sys_comm	R		--	Displays the status of valid system communications with ABC controls.	Off	On
137	BD	EH1Mode	eh1_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH1 output.	Aux_Heat	Network_EH
138	BD	EH2Mode	eh2_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH2 output.	Aux_Heat	Network_EH
139	BD	EH3Mode	eh3_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC B EH1 output.	Aux_Heat	Network_EH
140	BD	EH4Mode	eh4_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC B EH2 output.	Aux_Heat	Network_EH
141	BD	BrineSelect	brine_select_c	R/W	Inactive (0)	--	Allows for the selection of the anti-freeze setting for the use of performance monitoring calculations only.	Water	Anti-Freeze
142	BD	DHenable	dh_enable_c	R/W	Inactive (0)	--	Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled
143	BD	DHWenableA	dhw_enable_a_c	R/W	Inactive (0)	--	Allows for the network to enable/disable DHW operation on circuit A.	Off	On
144	BD	DHWenableB	dhw_enable_b_c	R/W	Inactive (0)	--	Allows for the network to enable/disable DHW operation on circuit B.	Off	On
145	BD	SW1ComA	sw2_1_a_c	R/W	Active (1)	--	Used to select the position of SW2-1 on ABC A for override.	15 Deg	30 Deg
146	BD	SW2ComA	sw2_2_a_c	R/W	Active (1)	--	Used to select the position of SW2-2 on ABC A for override.	15 Deg	30 Deg
147	BD	SW3ComA	sw2_3_a_c	R/W	Active (1)	--	Used to select the position of SW2-3 on ABC A for override.	Cooling	Heating
148	BD	SW4ComA	sw2_4_a_c	R/W	Active (1)	--	Used to select the position of SW2-4 on ABC A for override.	Off	On
149	BD	SW5ComA	sw2_5_a_c	R/W	Inactive (0)	--	Used to select the position of SW2-5 on ABC A for override.	Off	On
150	BD	SW6ComA	sw2_6_a_c	R/W	Inactive (0)	--	Used to select the position of SW2-6 on ABC A for override.	Dual Capacity	Single Capacity
151	BD	SW7ComA	sw2_7_a_c	R/W	Active (1)	--	Used to select the position of SW2-7 on ABC A for override.	Pulsed	Continuous

N2 Points for Dual Compressor Rooftop Economizer cont.

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
152	BD	SW8ComA	sw2-8_a_c	R/W	Active (1)	--	Used to select the position of SW2-8 on ABC A for override.	Reheat	Normal
153	BD	DipSwOvrEnaA	dip_sw_ovrd_ena_a_c	R/W	Inactive (0)	--	Used to enable the BAS write privileges for dip switch overrides on ABC A.	Off	On
154	BD	SW1ComB	sw2_1_b_c	R/W	Active (1)	--	Used to select the position of SW2-1 on ABC B for override.	15 Deg	30 Deg
155	BD	SW2ComB	sw2_2_b_c	R/W	Active (1)	--	Used to select the position of SW2-2 on ABC B for override.	15 Deg	30 Deg
156	BD	SW3ComB	sw2_3_b_c	R/W	Active (1)	--	Used to select the position of SW2-3 on ABC B for override.	Cooling	Heating
157	BD	SW4ComB	sw2_4_b_c	R/W	Active (1)	--	Used to select the position of SW2-4 on ABC B for override.	Off	On
158	BD	SW5ComB	sw2_5_b_c	R/W	Inactive (0)	--	Used to select the position of SW2-5 on ABC B for override.	Off	On
159	BD	SW6ComB	sw2_6_b_c	R/W	Inactive (0)	--	Used to select the position of SW2-6 on ABC B for override.	Dual Capacity	Single Capacity
160	BD	SW7ComB	sw2_7_b_c	R/W	Active (1)	--	Used to select the position of SW2-7 on ABC B for override.	Pulsed	Continuous
161	BD	SW8ComB	sw2-8_b_c	R/W	Active (1)	--	Used to select the position of SW2-8 on ABC B for override.	Reheat	Normal
162	BD	DipSwOvrEnaB	dip_sw_ovrd_ena_b_c	R/W	Inactive (0)	--	Used to enable the BAS write privileges for dip switch overrides on ABC B.	Off	On
163	BD	TestModeEna	test_mode_ena_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
164	BD	ClearFaults	clear_faults_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Multi State Values	State Text	
								Inactive = 0	Active = 1
1	ADI	OccManCmdMSV	occ_man_msv_c	R/W	1	--	Multi state value for selecting the system occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
2	ADI	EffOccMSV	eff_occ_msv	R		--	Multi state value displaying the current system occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby] [5 = Occupancy Sensor]	
3	ADI	LockoutEnumMSV	lockout_enum_msv	R		--	Do Not Map To BAS		
4	ADI	EconMSV	econ_msv_c	R/W	5	--	Displays and allows selection of Economizer operating mode using multi state value.	[1 = Econ Off] [2 = Fixed Temp] [3 = Diff Temp] [4 = Fixed Enthalpy] [5 = Diff Enthalpy] [6 = Slave Mode]	
5	ADI	ModeMSV	mode_msv	R		--	Multi state value to display the operating mode of the unit, refer to the mode of operations table for a description of modes.	Refer to the Mode Of Operations Table.	
6	ADI	ClgCFMOffsetMSV	clg_cfm_offset_msv_c	R/W	4	--	Multi state value for selecting dehumidification operation for ECM blower.	[1 = Htg CFM = Clg CFM] [2 = -5% CFM Clg] [3 = -10% CFM Clg] [4 = -15% CFM Clg] [5 = +5% CFM Clg]	

N2 Points for Dual Compressor Rooftop Economizer cont.

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Multi State Values	State Text	
								Inactive = 0	Active = 1
7	ADI	PhaseSelect	phase_select_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]	
8	ADI	FlowMeterAMSV	flow_meter_a_msv_c	R/W	6	--	Multi state value for selecting flow meter option for circuit A.	[1 = None] [2 = 3/4 Inch] [3 = 1 inch] [4 = 2 inch] [5 = 2 1/2 Inch] [6 = 1 1/4 Inch]	
9	ADI	FlowMeterBMSV	flow_meter_b_msv_c	R/W	6	--	Multi state value for selecting flow meter option for circuit B.	[1 = None] [2 = 3/4 Inch] [3 = 1 inch] [4 = 2 inch] [5 = 2 1/2 Inch] [6 = 1 1/4 Inch]	

Alarms for Dual Compressor Rooftop Economizer

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Alarms Table for the Rooftop Econmizer Aurora with UPC					
Aurora Base Controller with UPC Alarms Table		ABC Red LED Flash Code	Alarm Values Enumerated on AV-116, AV-118 & AV-119 or ADF-81, ADF-83 & ADF-84 to	Lockout	Reset
ABC, AXB, and UPC Faults	Normal - No Faults	Off	0	-	-
	E1 - Fault-Input	1	1	No	Auto
	E2 - Fault-High Pressure	2	2	Yes	Hard or Soft
	E3 - Fault-Low Pressure	3	3	Yes	Hard or Soft
	E4 - Fault-Freeze Detection FP2	4	4	Yes	Hard or Soft
	E5 - Fault-Freeze Detection FP1	5	5	Yes	Hard or Soft
	E6 - Fault-Loss Of Charge	6	6	Yes	Hard or Soft
	E7 - Fault-Condensate Overflow	7	7	Yes	Hard or Soft
	E8 - Fault-Over/Under Voltage	8	8	No**	Auto
	E9 - Airflow Monitoring	9	9	Future	Future
	E10 - Fault-Compressor Monitoring	10	10	Yes	Hard or Soft
	E11 - Fault-FP1 Sensor Error	11	11	Yes	Hard or Soft
	E12 - Refrigeration Monitoring	12	12	Future	Future
	E13 - Non Critical AXB Sensor Error	13	13	Future	Future
	E14 - Critical AXB Sensor Error	14	14	Future	Future
	E15 - Hot Water Limit	15	15	No	Auto
	E16 - Fault-Variable Speed Pump	16	16	No	Auto
	E18 - Non-Critical Comm Error	18	18	No	Auto
	E19 - Critical Comm Error	19	19	Yes	Auto
	E20 - UPC-ABC Critical Comm Error	N/A	20	Yes	Auto
	E30 - Zone Sensor Loss of Comm	N/A	30	Yes	Auto
	E101 - Faulty OAT Sensor	N/A	101	No	Auto
	E102 - Missing OAT Sensor	N/A	102	No	Auto
E103 - Faulty OAH Sensor	N/A	103	No	Auto	
E104 - Missing OAH Sensor	N/A	104	No	Auto	
E105 - Faulty RAT Sensor	N/A	105	No	Auto	
E106 - Missing RAT Sensor	N/A	106	No	Auto	
E107 - Faulty RAH Sensor	N/A	107	No	Auto	
E108 - Missing RAH Sensor	N/A	108	No	Auto	
E121 - Blower Support Fault	N/A	121	Yes	Auto	

Mode of Operation for Sing/Dual Compressor Rooftop Economizer

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Single Compressor Rooftop Economizer Modes of Operation
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 Lockout
13 = Demand Ventilation
14 = Economizer Mode
15 = ABC Lockout
16 = Cooling W/Economizer
17 = Low LAT Mode
18 = ABC Lockout
19 = ABC Lockout
20 = Cooling W/Economizer

Dual Compressor Rooftop Economizer Modes of Operation
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 Lockout
13 = Demand Ventilation
14 = Economizer Mode
15 = ABC B Lockout
16 = Full Cool W/Economizer
17 = Low LAT Mode
18 = 1/2 Capacity W/Lockout
19 = Full Lockout Condition
20 = Cool 1 W/Economizer

