

AURORA

Aurora Universal Protocol Converter (UPC) Rooftop Economizer

BACnet Points List For Single/Dual Compressor Rooftop Economizer

Software Version 1.01 Utilizing the Aurora UPC Controller

UPC BACnet Points List For Single/Dual Compressor Rooftop Economizer

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

BACnet 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
100	AV	ActiveSetPt	active_setpt	R		°F	Displays the set point that is controlling the call for the compressor.		
101	AV	NeutSetPt	neut_setpt	R		°F	Displays the current neutral air setpoint used by the Economizer logic for neutral air delivery.		
102	AV	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.		
103	AV	ManECMSpeed	man_ecm_speed_c	R/W	0	no units	Do Not Map To BAS		
104	AV	ECMOverride	ecm_override	R		no units	Do Not Map To BAS		
105	AV	ManVSPumpA	man_vs_pump_a_c	R/W	0	%	Do Not Map To BAS		
107	AV	ManDampPos	man_damp_pos_c	R/W	0	%	Do Not Map To BAS		
108	AV	ActualDampPos	actual_damp_pos	R		%	Displays the current damper target position.		
109	AV	FP1SetPtA	fp1_setpt_a	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit A.		
110	AV	FP2SetPtA	fp2_setpt_a	R		°F	Displays the FP2 freeze detection limit (air coil temp) for circuit A.		
113	AV	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.		
114	AV	FilterHours	filter_hours	R		hr	Displays the number of fan run hours since the last filter alarm reset.		
115	AV	LockStatRegA	lock_stat_reg_a	R		no units	Do Not Map To BAS		
116	AV	AlarmEnumA	alarm_enum_a	R		no units	Displays alarm value for ABC A		
119	AV	AlarmEnum	alarm_enum	R		no units	Displays combined system alarm value		
200	AV	ECMSpeedSwA	ecm_speed_sw_a	R		no units	Displays the current ECM target speed.		
201	AV	ECMpwmPctA	ecm_pwm_pct_a	R		%	Displays the current ECM PWM output percentage.		
202	AV	VSPumpSpdA	vs_pump_spd_stat_a	R		%	Displays the current target % of the VS Pump output for circuit A.		
203	AV	VSPumpPctA	vs_pump_pct_stat_a	R		%	Displays the current operating % of the VS Pump output for circuit A.		
206	AV	CoaxTempA	coax_temp_stat_a	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit A on ABC A.		
207	AV	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.		
210	AV	LWTA	lwt_stat_a	R		°F	Displays the value of the LWT input on circuit A if the sensing hardware is present.		
211	AV	EWTA	ewt_stat_a	R		°F	Displays the value of the EWT input on circuit A if the sensing hardware is present.		
212	AV	WaterFlowA	water_flow_stat_a	R		gpm	Displays the GPM flow rate of circuit A if the sensing hardware is present.		
213	AV	LoopPresA	loop_pres_stat_a	R		psi	Displays the loop pressure for circuit A if the sensing hardware is present.		
214	AV	AXBLATA	lat_stat	R		°F	Displays the leaving air temperature that is connected to the AXB A.		
216	AV	SuctPressStatA	suct_press_stat_a	R		psi	Displays the suction pressure of circuit A if the sensing hardware is present.		
217	AV	DischPressStatA	disch_press_stat_a	R		psi	Displays the discharge pressure of circuit A if the sensing hardware is present.		
218	AV	SuctTempStatA	suct_temp_stat_a	R		°F	Displays the suction temperature of circuit A if the sensing hardware is present.		
219	AV	DischTempStatA	disch_temp_stat_a	R		°F	Displays the discharge temperature of circuit A if the sensing hardware is present.		
220	AV	LiqLineTempStatA	liq_line_temp_stat_a	R		°F	Displays the heating liquid line temperature for circuit A if the sensing hardware is present.		
221	AV	SatEvapTempStatA	sat_evap_temp_stat_a	R		°F	Displays the saturated evaporator temperature for circuit A if the sensing hardware is present.		
222	AV	CondTempStatA	cond_temp_stat_a	R		°F	Displays the condenser temperature for circuit A if the sensing hardware is present.		
223	AV	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.		
224	AV	ControlVoltageStatA	control_voltage_stat_a	R		V	Displays the low voltage circuit value that is powering the ABC A.		
225	AV	HotWaterTempStatA	hot_wtr_temp_stat_a	R		°F	Displays the hot water temperature input for circuit A if the sensing hardware is present.		
226	AV	UnivInputStatA	univ_input_stat_a	R		no units	Displays the raw count value of the circuit A universal input.		
227	AV	SuperheatStatA	superheat_stat_a	R		°F	Displays the super heat of circuit A if the sensing hardware is present.		
228	AV	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		
229	AV	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		
230	AV	FanCurrentStatA	fan_current_stat_a	R		A	Displays the amp draw for the Fan output on circuit A if the sensing hardware is present.		
231	AV	AuxCurrentStatA	aux_current_stat_a	R		A	Displays the amp draw for the Auxiliary output on circuit A if the sensing hardware is present.		
232	AV	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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								Inactive = 0	Active = 1
233	AV	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.		
234	AV	TotalAmpsStatA	total_amps_stat_a	R		A	Displays the calculated total amp draw for circuit A if the sensing hardware is present.		
235	AV	CompPowerStatA	comp_power_stat_a	R		W	Calculates and displays the compressor power of circuit A if the sensing hardware is present.		
236	AV	FanPowerStatA	fan_power_stat_a	R		W	Displays the watt usage for Fan output on circuit A if the sensing hardware is present.		
237	AV	AuxPowerStatA	aux_power_stat_a	R		W	Displays the watt usage for Auxiliary output on circuit A if the sensing hardware is present.		
238	AV	TotalPowerStatA	total_power_stat_a	R		W	Displays the calculated total watt usage for circuit A if the sensing hardware is present.		
239	AV	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.		
240	AV	TotalCapStatA	total_cap_stat_a	R		Btu/hr	Displays the calculated value for circuit A total capacity if the sensing hardware is present.		
241	AV	COPStatA	cop_stat_a	R		no units	Displays the calculated C.O.P of circuit A if the sensing hardware is present.		
242	AV	EERStatA	eer_stat_a	R		no units	Displays the EER calculation of circuit A if the sensing hardware is present		
301	AV	LowECMSpd	low_ecm_spd_c	R/W	3	no units	Displays and allows for the low speed ECM airflow setting to be adjusted.		
302	AV	MedECMSpd	med_ecm_spd_c	R/W	7	no units	Displays and allows for the medium speed ECM airflow setting to be adjusted.		
303	AV	HighECMSpd	high_ecm_spd_c	R/W	11	no units	Displays and allows for the high speed ECM airflow setting to be adjusted.		
304	AV	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.		
305	AV	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.		
306	AV	ClgCFMOffsetAV	clg_cfm_offset_av_c	R/W	4	no units	Numeric value for selecting dehumidification operation for ECM blower.		
307	AV	OccDehumSetpt	occ_dehum_setpt_c	R/W	53	%rh	Allows for the adjustment of the occupied dehumidification set point.		
308	AV	UnnoccDehumSetpt	unocc_dehum_setpt_c	R/W	75	%rh	Allows for the adjustment of the unoccupied dehumidification set point.		
309	AV	DehumSetPt	dehum_setpt	R		%rh	Displays the currently active dehumidification setpoint.		
310	AV	DehumDiff	dehum_diff_c	R/W	5	%rh	Allows for the adjustment of the dehumidification differential, or deadband for operation.		
311	AV	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.		
312	AV	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.		
313	AV	PumpOptionA	pump_opt_a_c	R/W	0	no units	Displays and allows selection of the pump or loop option for circuit A.		
317	AV	FlowMeterA	flow_meter_a_c	R/W	0	no units	Displays and allows selection of the flow meter option for circuit A.		
319	AV	DHWSetptA	dhw_setpt_a_c	R/W	130	°F	Displays and allows selection of the hot water setpoint for circuit A.		
321	AV	EnergyMonA	energy_mon_a_c	R/W	0	no units	Displays and allows selection of the energy monitor option for circuit A.		
323	AV	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.		
325	AV	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.		
326	AV	BlowerConfig	blower_config_c	R/W	9	no units	Displays and allows selection of the blower configuration.		
400	AV	FactTestCmd	fact_test_c	R/W	0	no units	Do Not Map To BAS		
401	AV	point name	m409_cmd	R/W	0	no units	Do Not Map To BAS		
402	AV	point name	m488_cmd	R/W	0	no units	Do Not Map To BAS		
403	AV	point name	m417_cmd	R/W	0	no units	Do Not Map To BAS		
404	AV	point name	m494_cmd	R/W	0	no units	Do Not Map To BAS		
405	AV	point name	m421_cmd	R/W	0	no units	Do Not Map To BAS		
406	AV	point name	m495_cmd	R/W	0	no units	Do Not Map To BAS		
407	AV	point name	m425_cmd	R/W	0	no units	Do Not Map To BAS		
408	AV	point name	m496_cmd	R/W	0	no units	Do Not Map To BAS		
409	AV	point name	m429_cmd	R/W	0	no units	Do Not Map To BAS		
410	AV	point name	m497_cmd	R/W	0	no units	Do Not Map To BAS		
411	AV	point name	m433_cmd	R/W	0	no units	Do Not Map To BAS		

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								Inactive = 0	Active = 1
412	AV	point name	m498_cmd	R/W	0	no units	Do Not Map To BAS		
413	AV	point name	m441_cmd	R/W	0	no units	Do Not Map To BAS		
414	AV	point name	m445_cmd	R/W	0	no units	Do Not Map To BAS		
415	AV	point name	m500_cmd	R/W	0	no units	Do Not Map To BAS		
416	AV	point name	m449_cmd	R/W	0	no units	Do Not Map To BAS		
417	AV	point name	m501_cmd	R/W	0	no units	Do Not Map To BAS		
418	AV	point name	m453_cmd	R/W	0	no units	Do Not Map To BAS		
420	AV	TstatOvrD	tstat_ovrd_c	R/W	0	no units	Do Not Map To BAS		
430	AV	abc_fw_rev_a	abc_fw_rev_a	R		no units	Do Not Map To BAS		
431	AV	sw_part_no_a	sw_part_no_a	R		no units	Do Not Map To BAS		
432	AV	abc_fw_beta_a	abc_fw_beta_a	R		no units	Do Not Map To BAS		
500	AV	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.		
501	AV	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.		
502	AV	ZoneTempOvrD	zone_temp_ovrd_c	R/W	0	°F	Allows for the Zone Temp to be overridden by the BAS if necessary, need to command BV-500 to "Active or BAS" before the override will work.		
503	AV	ZoneHum	zone_hum	R		%rh	Displays the humidity value of the zone sensor if it is equipped with a humidity sensor.		
504	AV	HumidityCmd	humidity_c	R/W	0	%rh	Allows for the BAS to override the space humidity value if desired.		
505	AV	CO2stat	co2_stat	R		ppm	Displays the CO2 value if the zone sensor is equipped with the sensor		
506	AV	CO2cmd	co2_cmd_c	R/W	0	ppm	Allows for the BAS to write the CO2 value to the UPC if desired.		
507	AV	VOCstat	voc_stat	R		ppm	Displays the VOC value if the zone sensor is equipped with the sensor		
508	AV	VOCcmd	voc_cmd_c	R/W	0	ppm	Allows for the BAS to write the VOC value to the UPC if desired.		
509	AV	OccManCmdAV	occ_man_av_c	R/W	1	no units	Allows for the BAS to command the occupancy of the unit if BV-504 is set for "AV" or "Active". If BV-504 is not set for Active or AV then commands to this AV will be ignored.		
510	AV	EffOccStat	eff_occ_st	R		no units	Displays the current occupancy status of the system.		
511	AV	Setpoint	occ_clg_setpt_c	R/W		°F	Displays and sets the occupied cooling set point.		
512	AV	Setpoint	occ_htg_setpt_c	R/W		°F	Displays and sets the occupied heating set point.		
513	AV	Setpoint	unocc_clg_setpt_c	R/W		°F	Displays and sets the unoccupied cooling set point.		
514	AV	Setpoint	unocc_htg_setpt_c	R/W		°F	Displays and sets the unoccupied heating set point.		
515	AV	StandbyCoolSetpt	standby_cool_setpt_c	R/W	76	°F	Displays and sets the standby cooling set point.		
516	AV	StandbyHeatSetpt	standby_heat_setpt_c	R/W	68	°F	Displays and sets the standby heating set point.		
517	AV	Setpoint	eff_clg_setpt_c	R		°F	Displays the effective cooling set point.		
518	AV	Setpoint	eff_htg_setpt_c	R		°F	Displays the effective heating set point.		
521	AV	SetPtDiff	setpt_diff_c	R/W	2	°F	Displays and sets the minimum temperature between the heating and cooling setpoints.		
522	AV	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.		
523	AV	TempOccTime	temp_occ_time	R		m/sec	Displays the amount of time left in temporary occupancy only while in Temp Occ.		
524	AV	OccManValue	occ_man_value	R		no units	Displays the currently selected occupancy value.		
600	AV	EconMode	econ_mode	R		no units	Displays the currently active Economizer mode.		
601	AV	EconDampPos	econ_damp_pos	R		%	Displays the current damper position determined by Economizer logic.		
602	AV	AtmPres	atm_pres_c	R/W	14.1	psi	Allows the BAS to supply the current atmospheric pressure for enthalpy calculations.		
603	AV	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).		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
604	AV	AirPres	air_pres	R		psi	Current atmospheric pressure value being used for enthalpy calculations.		
605	AV	OATadjust	oat_adjust_c	R/W	0	°F	Calibration offset value for outdoor air temperature sensor.		
606	AV	OAToverride	oat_override_c	R/W	0	°F	Allows the BAS to write the outdoor air temperature to the UPC (BV:609 must be set to use this value).		
607	AV	OATstat	oat_stat	R		°F	Displays the current usable outdoor air temperature value.		
608	AV	OAHadjust	oah_adjust_c	R/W	0	%rh	Calibration offset value for outdoor air humidity sensor.		
609	AV	OAHoverride	oah_override_c	R/W	0	%rh	Allows the BAS to write the outdoor air humidity to the UPC (BV:611 must be set to use this value).		
610	AV	OAHstat	oah_stat	R		%rh	Displays the current usable outdoor air humidity value.		
611	AV	OutEnth	out_enth	R		Btu/lb	Displays the currently calculated outdoor air enthalpy value.		
612	AV	OutDew	out_dew	R		°F	Displays the currently calculated outdoor air dew point value.		
613	AV	RATadjust	rat_adjust_c	R/W	0	°F	Calibration offset value for return air temperature sensor.		
614	AV	RAToverride	rat_override_c	R/W	0	°F	Allows the BAS to write the return air temperature to the UPC (BV:613 must be set to use this value).		
615	AV	RATstat	rat_stat	R		°F	Displays the current usable return air temperature value.		
616	AV	RAHadjust	rah_adjust_c	R/W	0	%rh	Calibration offset value for return air humidity sensor.		
617	AV	RAHoverride	rah_override_c	R/W	0	%rh	Allows the BAS to write the return air humidity to the UPC (BV:615 must be set to use this value).		
618	AV	RAHstat	rah_stat	R		%rh	Displays the current usable return air humidity value.		
619	AV	RetEnth	ret_enth	R		Btu/lb	Displays the currently calculated return air enthalpy value.		
620	AV	RetDew	ret_dew	R		°F	Displays the currently calculated return air dew point value.		
630	AV	EconAV	econ_av_c	R/W	5	no units	Displays and allows selection of Economizer operating mode using numeric value.		
631	AV	DBSetPt	db_setpt_c	R/W	63	°F	Displays and allows adjustment of dry bulb set point for Economizer operation.		
632	AV	DBLimit	db_limit_c	R/W	75	°F	Displays and allows adjustment of dry bulb limit for Economizer operation.		
633	AV	DBDiff	db_diff_c	R/W	2	°F	Displays and allows adjustment of dry bulb differential for Economizer operation.		
634	AV	EnthSetPt	enth_setpt_c	R/W	24	Btu/lb	Displays and allows adjustment of the enthalpy set point for Economizer operation.		
635	AV	EnthLimit	enth_limit_c	R/W	30	Btu/lb	Displays and allows adjustment of the enthalpy limit for Economizer operation.		
636	AV	EnthDiff	enth_diff_c	R/W	2	Btu/lb	Displays and allows adjustment of the enthalpy differential for Economizer operation.		
637	AV	MASetPt	ma_setpt_c	R/W	53	°F	Displays and allows adjustment of mixed air set point for Economizer operation.		
638	AV	MinDmpPos	min_dmp_pos_c	R/W	30	%	Displays and allows adjustment of the minimum damper position for Economizer operation.		
639	AV	MinLATLim	min_lat_lim_c	R/W	45	°F	Displays and allows adjustment of the minimum leaving air temperature set point for Economizer operation.		
640	AV	MinOATClg	min_oat_clg_c	R/W	40	°F	Displays and allows adjustment of minimum outdoor air temperature for mechanical cooling operation.		
641	AV	MinOATVent	min_oat_vent_c	R/W	0	°F	Displays and allows adjustment of the minimum outdoor temperature for ventilation operation.		
642	AV	MaxDCVPos	max_dcv_pos_c	R/W	40	%	Displays and allows adjustment of the maximum damper position for demand controlled ventilation.		
643	AV	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.		
644	AV	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.		
645	AV	SamTime	sam_time_c	R/W	60	seconds	Displays and allows adjustment of the outdoor air temperature sampling time for Economizer operation.		
646	AV	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.		
647	AV	CompUpTime	comp_up_time_c	R/W	120	seconds	Displays and allows adjustment of the minimum time required for upstaging with Economizer operation.		
648	AV	CompDnTime	comp_dn_time_c	R/W	120	seconds	Displays and allows adjustment of the maximum time required for upstaging with Economizer operation.		
649	AV	NATime	na_time_c	R/W	60	seconds	Displays and allows adjustment of the damper adjustment time during neutral air operation.		

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								Inactive = 0	Active = 1
100	BV	FanOperation	fan_operation_c	R/W	Active (1)	--	Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
101	BV	EmShutdown	em_shutdown_c	R/W	Inactive (0)	--	Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
102	BV	ESstat	es_stat	R		--	Emergency Shutdown status of System.	Normal	Shutdown
103	BV	ESstatA	es_stat_a	R		--	Emergency Shutdown status of ABC A.	Normal	Shutdown
105	BV	LoadShed	load_shed_c	R/W	Inactive (0)	--	Allows for the network to issue a load shed command to the unit	Off	On
106	BV	LSstatA	ls_stat_a	R		--	Load Shed status of ABC A.	Normal	Load Shed
108	BV	Y1Dem	y1_dem	R		--	Displays the status of the Y1 demand calculated by the internal PID logic.	Off	On
109	BV	Y2Dem	y2_dem	R		--	Displays the status of the Y2 demand calculated by the internal PID logic.	Off	On
110	BV	NetworkY1	network_y1_c	R/W	Inactive (0)	--	Used to generate a Y1 demand from BAS.	Off	On
111	BV	NetworkY2	network_y2_c	R/W	Inactive (0)	--	Used to generate a Y2 demand from BAS.	Off	On
112	BV	NetworkW	network_w_c	R/W	Inactive (0)	--	Used to generate a W demand from BAS.	Off	On
113	BV	NetworkO	network_o_c	R/W	Inactive (0)	--	Used to generate a O demand from BAS.	Off	On
114	BV	NetworkG	network_g_c	R/W	Inactive (0)	--	Used to generate a G demand from BAS.	Off	On
115	BV	NetworkDH	network_dh_c	R/W	Inactive (0)	--	Used to generate a DH demand from BAS.	Off	On
116	BV	EH1OverCmd	eh1_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH1 output from BAS.	Off	On
117	BV	EH2OverCmd	eh2_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH2 output from BAS.	Off	On
121	BV	Y1CmdStat	y1_cmd_stat	R		--	Displays the status of the ABC A Y1 call from the UPC	Off	On
122	BV	Y2CmdStat	y2_cmd_stat	R		--	Displays the status of the ABC A Y2 call from the UPC	Off	On
123	BV	WCmdStat	w_cmd_stat	R		--	Displays the status of the ABC W call from the UPC	Off	On
124	BV	OCmdStat	o_cmd_stat	R		--	Displays the status of the ABC O call from the UPC	Heating	Cooling
125	BV	GCmdStat	g_cmd_stat	R		--	Displays the status of the ABC G call from the UPC	Off	On
126	BV	DHCmdStat	dh_cmd_stat	R		--	Displays the status of the ABC DH call from the UPC	Off	On
127	BV	ManualECM	manual_ecm_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
128	BV	ManVSPump	man_vs_pump_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
129	BV	ManDamp	man_damp_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
130	BV	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
131	BV	AlarmResetStat	alarm_reset_stat	R		--	Displays the commanded status of the alarm reset command.	Off	On
132	BV	ABCCommFltA	abc_comm_fit_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
133	BV	ModbusCommA	modbus_comm_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
136	BV	FP1FaultA	fp1_fault_a	R		--	Displays status of FP1 fault condition for circuit A.	Normal	Fault
138	BV	FilterAlmReset	filter_alm_reset_c	R/W	Inactive (0)	--	Used to reset the dirty filter alarm after the filter has been changed.	Off	On
139	BV	DirtyFilterAlarm	dirty_filter_alarm	R		--	Displays the status of the dirty filter alarm.	Normal	Change Filter
140	BV	CondStatA	cond_stat_a	R		--	Displays the status of the condensate input on ABC A.	Normal	Alarm
141	BV	AlarmHdwStatA	alarm_hdw_stat_a	R		--	Displays the status of the ABC A Alarm output.	Off	On
142	BV	LockHdwStatA	lock_hdw_stat_a	R		--	Displays the status of the ABC A Lockout output.	Normal	Lockout
143	BV	LockoutStatA	lockout_stat_a	R		--	Displays the lockout status of the circuit A system.	Normal	Alarm
200	BV	CompA	comp_stat_a	R		--	Displays the status of the CC compressor output on ABC A.	Off	On
201	BV	HiCompA	hi_comp_stat_a	R		--	Displays the status of the CC2 compressor output on ABC A.	Off	On

BACnet 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
202	BV	RevVlvA	rev_vlv_stat_a	R		--	Displays the status of the reversing valve output on ABC A.	Heat	Cool
203	BV	FanA	fan_stat_a	R		--	Displays the status of the Fan relay output on ABC A.	Off	On
204	BV	EH1A	eh1_stat_a	R		--	Displays the status of the EH1 output on ABC A.	Off	On
205	BV	EH2A	eh2_stat_a	R		--	Displays the status of the EH2 output on ABC A.	Off	On
206	BV	Acc1A	acc1_stat_a	R		--	Displays the status of the ACC1 output on ABC A.	Off	On
214	BV	FP1LimA	fp1_lim_a	R		--	Displays the FP1 limit temperature for ABC A.	15 Deg	30 Deg
215	BV	FP2LimA	fp2_lim_a	R		--	Displays the FP2 limit temperature for ABC A.	15 Deg	30 Deg
216	BV	RVSetupA	rv_setup_a	R		--	Displays the reversing valve setup for ABC A.	Cooling	Heating
217	BV	SW2-4A	sw_2_4_a	R		--	Displays the position of SW2-4 on ABC A which configures the operation of ACC1.	Off	On
218	BV	SW2-5A	sw_2_5_a	R		--	Displays the position of SW2-5 on ABC A which configures the operation of ACC1.	Off	On
219	BV	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
220	BV	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
221	BV	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
222	BV	SW1TestA	sw1_test_a	R		--	Displays the status of the SW1 test button on ABC A.	Off	On
232	BV	Y1hdwA	y1_hdw_a	R		--	Displays the staus of the physical Y1 input on ABC A.	Off	On
233	BV	Y2hdwA	y2_hdw_a	R		--	Displays the staus of the physical Y2 input on ABC A.	Off	On
234	BV	WhdwA	w_hdw_a	R		--	Displays the staus of the physical W input on ABC A.	Off	On
235	BV	OhdwA	o_hdw_a	R		--	Displays the staus of the physical O input on ABC A.	Off	On
236	BV	GhdwA	g_hdw_a	R		--	Displays the staus of the physical G input on ABC A.	Off	On
237	BV	DHhdwA	dh_hdw_a	R		--	Displays the staus of the physical DH input on ABC A.	Off	On
238	BV	HPhdwA	hp_hdw_a	R		--	Displays the staus of the physical LP input on ABC A.	Open	Closed
239	BV	LPhdwA	lp_hdw_a	R		--	Displays the staus of the physical HP input on ABC A.	Open	Closed
240	BV	LShdwA	ls_hdw_a	R		--	Displays the staus of the physical LS input on ABC A.	Normal	LoadShed
241	BV	EShdwA	es_hdw_a	R		--	Displays the staus of the physical ES input on ABC A.	Normal	Shutdown
242	BV	ABCTestA	abc_test_mode_a	R		--	Displays the current status of the test mode for ABC A.	Off	On
300	BV	DDCenable	ddc_enable_c	R/W	Active (1)	--	Do Not Map To BAS	T-Stat	UPC
301	BV	SysComm	sys_comm	R		--	Displays the status of valid system communications with ABC controls.	Off	On
302	BV	EH1Mode	eh1_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH1 output.	Aux_Heat	Network_EH
303	BV	EH2Mode	eh2_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH2 output.	Aux_Heat	Network_EH
306	BV	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
307	BV	DHenable	dh_enable_c	R/W	Inactive (0)	--	Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled
308	BV	DHWenableA	dhw_enable_a_c	R/W	Inactive (0)	--	Allows for the network to enable/disable DHW operation on circuit A.	Off	On
310	BV	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
311	BV	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
312	BV	SW3ComA	sw2_3_a_c	R/W	Active (1)	--	Used to select the position of SW2-3 on ABC A for override.	Cooling	Heating
313	BV	SW4ComA	sw2_4_a_c	R/W	Active (1)	--	Used to select the position of SW2-4 on ABC A for override.	Off	On
314	BV	SW5ComA	sw2_5_a_c	R/W	Active (1)	--	Used to select the position of SW2-5 on ABC A for override.	Off	On
315	BV	SW6ComA	sw2_6_a_c	R/W	Active (1)	--	Used to select the position of SW2-6 on ABC A for override.	Dual Capacity	Single Capacity

BACnet 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
316	BV	SW7ComA	sw2_7_a_c	R/W	Active (1)	--	Used to select the position of SW2-7 on ABC A for override.	Pulsed	Continuous
317	BV	SW8ComA	sw2-8_a_c	R/W	Active (1)	--	Used to select the position of SW2-8 on ABC A for override.	Reheat	Normal
318	BV	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
330	BV	SetBlwrAddrCmd	set_blwr_addr_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
331	BV	ClrBlwrAddrCmd	clr_blwr_addr_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
400	BV	TestModeEna	test_mode_ena_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
401	BV	FactTestEna	fact_test_ena_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
402	BV	ClearFaults	clear_faults_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
403	BV	DevEnable	dev_enable_c	R/W	Inactive (0)	--	Used to add communicating devices to the Aurora Control Boards.	Off	On
500	BV	TempSelector	temp_selector_c	R/W	Inactive (0)	--	Used to select between wall sensor and BAS for space temperature value.	Sensor	BAS
501	BV	ValidSensor	valid_sensor	R		--	Displays current status of having a valid space temperature value.	Off	On
502	BV	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
504	BV	OccCmdSelect	occ_cmd_select_c	R/W	Inactive (0)	--	Occupancy command selection between AV:509 & MSV:500	MSV	AV
505	BV	OccSensorEnable	occ_sensor_enable_c	R/W	Inactive (0)	--	Enables or disables occupancy sensor connected to ABC O input.	Disabled	Enabled
506	BV	OccManCmdBV	occ_man_cmd_bv_c	R/W	Inactive (0)	--	BAS occupancy signal.	Off	On
507	BV	TempOcc	temp_occ_c	R/W	Active (1)	--	Enables or disables temporary occupancy at zone sensors.	Enable	Disable
508	BV	TempOccStat	temp_occ_stat	R		--	Displays temporary occupancy status.	Normal	Temp Occ
509	BV	NotUnoccupied	not_unoccupied	R		--	Do Not Map To BAS	Off	On
510	BV	FanOccupied	fan_occupied	R		--	Do Not Map To BAS	Off	On
550	BV	ArchiveNow	archive_now_c	R/W	Inactive (0)	--	Forces UPC to Archive the current system settings and database values.	No	Yes
600	BV	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
601	BV	EconAvail	econ_avail	R		--	Displays current availability fo Economizer for free cooling.	Not Avail	Available
602	BV	LVTStatus	lvt_status	R		--	Indicates if the low outdoor temperature ventilation logic is active.	Inactive	Active
603	BV	DCVStatus	dcv_status	R		--	Indicates if demand controlled ventilation logic is active.	Inactive	Active
604	BV	EconStat	econ_stat	R		--	Indicates if economizer operation is active.	Off	On
605	BV	LowLAT	low_lat	R		--	Indicates if Low LAT logic is active.	Off	On
606	BV	Y1Demand	y1_demand	R		--	Indicates that Economizer logic is passing on a Y1 compressor demand.	Off	On
607	BV	Y2Demand	y2_demand	R		--	Indicates that Economizer logic is passing on a Y2 compressor demand.	Off	On
608	BV	PresSelect	pres_select_c	R/W	Inactive (0)	--	Selects between atmospheric pressure and elevation for enthalpy calculations.	Pressure	Elevation
609	BV	OATselect	oat_select_c	R/W	Inactive (0)	--	Selection value for OAT source	Sensor	BAS
610	BV	OATvalid	oat_valid	R		--	Indication that a valid OAT value is present.	Off	On
611	BV	OAHselect	oah_select_c	R/W	Inactive (0)	--	Selection value for OAH source	Sensor	BAS
612	BV	OAHvalid	oah_valid	R		--	Indication that a valid OAH value is present.	Off	On
613	BV	RATselect	rat_select_c	R/W	Inactive (0)	--	Selection value for RAT source	Sensor	BAS
614	BV	RATvalid	rat_valid	R		--	Indication that a valid RAT value is present.	Off	On
615	BV	RAHselect	rah_select_c	R/W	Inactive (0)	--	Selection value for RAH source	Sensor	BAS

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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
616	BV	RAHvalid	rah_valid	R		--	Indication that a valid RAH value is present.	Off	On
620	BV	LowLATPos	low_lat_pos_c	R/W	Active (1)	--	Selects the minimum damper position for operation with low LAT conditions.	Min Position	Closed
621	BV	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
622	BV	DemCtrlVent	dem_ctrl_vent_c	R/W	Inactive (0)	--	Enables or disables Demand Controlled Ventilation.	Disabled	Enabled
623	BV	DCVvariable	dcv_variable_c	R/W	Inactive (0)	--	Selects the control variable for Demand Controlled Ventilation.	CO2	VOC
Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Multi State Values	State Text	
								Inactive = 0	Active = 1
100	MSV	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.	
300	MSV	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]	
301	MSV	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]	
302	MSV	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]	
500	MSV	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]	
501	MSV	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]	
502	MSV	LockoutEnumMSV	lockout_enum_msv	R		--	Do Not Map To BAS		
600	MSV	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]	

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

BACnet 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
100	AV	ActiveSetPt	active_setpt	R		°F	Displays the set point that is controlling the call for the compressor.		
101	AV	NeutSetPt	neut_setpt	R		°F	Displays the current neutral air setpoint used by the Economizer logic for neutral air delivery.		
102	AV	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.		
103	AV	ManECMSpeed	man_ecm_speed_c	R/W	0	no units	Do Not Map To BAS		
104	AV	ECMOverride	ecm_override	R		no units	Do Not Map To BAS		
105	AV	ManVSPumpA	man_vs_pump_a_c	R/W	0	%	Do Not Map To BAS		
106	AV	ManVSPumpB	man_vs_pump_b_c	R/W	0	%	Do Not Map To BAS		
107	AV	ManDampPos	man_damp_pos_c	R/W	0	%	Do Not Map To BAS		
108	AV	ActualDampPos	actual_damp_pos	R		%	Displays the current damper target position.		
109	AV	FP1SetPtA	fp1_setpt_a	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit A.		
110	AV	FP2SetPtA	fp2_setpt_a	R		°F	Displays the FP2 freeze detection limit (air coil temp) for circuit A.		
111	AV	FP1SetPtB	fp1_setpt_b	R		°F	Displays the FP1 freeze detection limit (coax temp) for circuit B.		
112	AV	FP2SetPtB	fp2_setpt_b	R		°F	Displays the FP2 freeze detection limit (air coil temp) for circuit B.		
113	AV	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.		
114	AV	FilterHours	filter_hours	R		hr	Displays the number of fan run hours since the last filter alarm reset.		
115	AV	LockStatRegA	lock_stat_reg_a	R		no units	Do Not Map To BAS		
116	AV	AlarmEnumA	alarm_enum_a	R		no units	Displays alarm value for ABC A		
117	AV	LockStatRegB	lock_stat_reg_b	R		no units	Do Not Map To BAS		
118	AV	AlarmEnumB	alarm_enum_b	R		no units	Displays alarm value for ABC B		
119	AV	AlarmEnum	alarm_enum	R		no units	Displays combined system alarm value		
200	AV	ECMSpeedSwA	ecm_speed_sw_a	R		no units	Displays the current ECM target speed.		
201	AV	ECMpwmPctA	ecm_pwm_pct_a	R		%	Displays the current ECM PWM output percentage.		
202	AV	VSPumpSpdA	vs_pump_spd_stat_a	R		%	Displays the current target % of the VS Pump output for circuit A.		
203	AV	VSPumpPctA	vs_pump_pct_stat_a	R		%	Displays the current operating % of the VS Pump output for circuit A.		
204	AV	VSPumpSpdB	vs_pump_spd_stat_b	R		%	Displays the current target % of the VS Pump output for circuit B.		
205	AV	VSPumpPctB	vs_pump_pct_stat_b	R		%	Displays the current operating % of the VS Pump output for circuit B.		
206	AV	CoaxTempA	coax_temp_stat_a	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit A on ABC A.		
207	AV	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.		
208	AV	CoaxTempB	coax_temp_stat_b	R		°F	Displays the temperature of the refrigerant at the Coax associated with circuit B on ABC B.		
209	AV	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.		
210	AV	LWTA	lwt_stat_a	R		°F	Displays the value of the LWT Input on circuit A if the sensing hardware is present.		
211	AV	EWTA	ewt_stat_a	R		°F	Displays the value of the EWT Input on circuit A if the sensing hardware is present.		
212	AV	WaterFlowA	water_flow_stat_a	R		gpm	Displays the GPM flow rate of circuit A if the sensing hardware is present.		
213	AV	LoopPresA	loop_pres_stat_a	R		psi	Displays the loop pressure for circuit A if the sensing hardware is present.		
214	AV	AXBLATA	lat_stat	R		°F	Displays the leaving air temperature that is connected to the AXB A.		
216	AV	SuctPressStatA	suct_press_stat_a	R		psi	Displays the suction pressure of circuit A if the sensing hardware is present.		
217	AV	DischPressStatA	disch_press_stat_a	R		psi	Displays the discharge pressure of circuit A if the sensing hardware is present.		
218	AV	SuctTempStatA	suct_temp_stat_a	R		°F	Displays the suction temperature of circuit A if the sensing hardware is present.		
219	AV	DischTempStatA	disch_temp_stat_a	R		°F	Displays the discharge temperature of circuit A if the sensing hardware is present.		
220	AV	LiqLineTempStatA	liq_line_temp_stat_a	R		°F	Displays the heating liquid line temperature for circuit A if the sensing hardware is present.		
221	AV	SatEvapTempStatA	sat_evap_temp_stat_a	R		°F	Displays the saturated evaporator temperature for circuit A if the sensing hardware is present.		
222	AV	CondTempStatA	cond_temp_stat_a	R		°F	Displays the condenser temperature for circuit A if the sensing hardware is present.		
223	AV	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.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
224	AV	ControlVoltageStatA	control_voltage_stat_a	R		V	Displays the low voltage circuit value that is powering the ABC A.		
225	AV	HotWaterTempStatA	hot_wtr_temp_stat_a	R		°F	Displays the hot water temperature input for circuit A if the sensing hardware is present.		
226	AV	UnivInputStatA	univ_input_stat_a	R		no units	Displays the raw count value of the circuit A universal input.		
227	AV	SuperheatStatA	superheat_stat_a	R		°F	Displays the super heat of circuit A if the sensing hardware is present.		
228	AV	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		
229	AV	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		
230	AV	FanCurrentStatA	fan_current_stat_a	R		A	Displays the amp draw for the Fan output on circuit A if the sensing hardware is present.		
231	AV	AuxCurrentStatA	aux_current_stat_a	R		A	Displays the amp draw for the Auxiliary output on circuit A if the sensing hardware is present.		
232	AV	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.		
233	AV	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.		
234	AV	TotalAmpsStatA	total_amps_stat_a	R		A	Displays the calculated total amp draw for circuit A if the sensing hardware is present.		
235	AV	CompPowerStatA	comp_power_stat_a	R		W	Calculates and displays the compressor power of circuit A if the sensing hardware is present.		
236	AV	FanPowerStatA	fan_power_stat_a	R		W	Displays the watt usage for Fan output on circuit A if the sensing hardware is present.		
237	AV	AuxPowerStatA	aux_power_stat_a	R		W	Displays the watt usage for Auxiliary output on circuit A if the sensing hardware is present.		
238	AV	TotalPowerStatA	total_power_stat_a	R		W	Displays the calculated total watt usage for circuit A if the sensing hardware is present.		
239	AV	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.		
240	AV	TotalCapStatA	total_cap_stat_a	R		Btu/hr	Displays the calculated value for circuit A total capacity if the sensing hardware is present.		
241	AV	COPStatA	cop_stat_a	R		no units	Displays the calculated C.O.P of circuit A if the sensing hardware is present.		
242	AV	EERStatA	eer_stat_a	R		no units	Displays the EER calculation of circuit A if the sensing hardware is present		
260	AV	LWTB	lwt_stat_b	R		°F	Displays the value of the LWT Input on circuit B if the sensing hardware is present.		
261	AV	EWTB	ewt_stat_b	R		°F	Displays the value of the EWT Input on circuit B if the sensing hardware is present.		
262	AV	WaterFlowB	water_flow_stat_b	R		gpm	Displays the GPM flow rate of circuit B if the sensing hardware is present.		
263	AV	LoopPresB	loop_pres_stat_b	R		psi	Displays the loop pressure for circuit B if the sensing hardware is present.		
264	AV	AXBLATB	lat_stat_b	R		°F	Displays the value of the sensor connected to the leaving air temperature input on the AXB Board B.		
266	AV	SuctPressStatB	suct_press_stat_b	R		psi	Displays the suction pressure of circuit B if the sensing hardware is present.		
267	AV	DischPressStatB	disch_press_stat_b	R		psi	Displays the discharge pressure of circuit B if the sensing hardware is present.		
268	AV	SuctTempStatB	suct_temp_stat_b	R		°F	Displays the suction temperature of circuit B if the sensing hardware is present.		
269	AV	DischTempStatB	disch_temp_stat_b	R		°F	Displays the discharge temperature of circuit B if the sensing hardware is present.		
270	AV	LiqLineTempStatB	liq_line_temp_stat_b	R		°F	Displays the heating liquid line temperature for circuit B if the sensing hardware is present.		
271	AV	SatEvapTempStatB	sat_evap_temp_stat_b	R		°F	Displays the saturated evaporator temperature for circuit B if the sensing hardware is present.		
272	AV	CondTempStatB	cond_temp_stat_b	R		°F	Displays the condensor temperature for circuit B if the sensing hardware is present.		
273	AV	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.		
274	AV	ControlVoltageStatB	control_voltage_stat_b	R		V	Displays the low voltage circuit value that is powering the ABC B.		
275	AV	HotWaterTempStatB	hot_wtr_temp_stat_b	R		°F	Displays the hot water temperature input for circuit B if the sensing hardware is present.		
276	AV	UnivInputStatB	univ_input_stat_b	R		no units	Displays the raw count value of the circuit B universal input.		
277	AV	SuperheatStatB	superheat_stat_b	R		°F	Displays the super heat of circuit B if the sensing hardware is present.		
278	AV	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		
279	AV	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		
280	AV	FanCurrentStatB	fan_current_stat_b	R		A	Displays the amp draw for the Fan output on circuit B if the sensing hardware is present.		
281	AV	AuxCurrentStatB	aux_current_stat_b	R		A	Displays the amp draw for the Auxiliary output on circuit B if the sensing hardware is present.		
282	AV	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.		
283	AV	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.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
284	AV	TotalAmpsStatB	total_amps_stat_b	R		A	Displays the calculated total amp draw for circuit B if the sensing hardware is present.		
285	AV	CompPowerStatB	comp_power_stat_b	R		W	Calculates and displays the compressor power of circuit B if the sensing hardware is present.		
286	AV	FanPowerStatB	fan_power_stat_b	R		W	Displays the watt usage for Fan output on circuit B if the sensing hardware is present.		
287	AV	AuxPowerStatB	aux_power_stat_b	R		W	Displays the watt usage for Auxiliary output on circuit B if the sensing hardware is present.		
288	AV	TotalPowerStatB	total_power_stat_b	R		W	Displays the calculated total watt usage for circuit B if the sensing hardware is present.		
289	AV	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.		
290	AV	TotalCapStatB	total_cap_stat_b	R		Btu/hr	Displays the calculated value for circuit B total capacity if the sensing hardware is present.		
291	AV	COPStatB	cop_stat_b	R		no units	Displays the calculated C.O.P of circuit B if the sensing hardware is present.		
292	AV	EERStatB	eer_stat_b	R		no units	Displays the EER calculation of circuit B if the sensing hardware is present.		
293	AV	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.		
294	AV	TotalCapStatCombined	total_cap_stat_combined	R		Btu/hr	Calculates and displays the combined capacity of both circuits if the sensing hardware is present.		
295	AV	TotalPowerStatCombined	total_power_stat_combined	R		W	Calculates and displays the combined total power of both circuits if the sensing hardware is present.		
301	AV	LowECMSpd	low_ecm_spd_c	R/W	3	no units	Displays and allows for the low speed ECM airflow setting to be adjusted.		
302	AV	MedECMSpd	med_ecm_spd_c	R/W	7	no units	Displays and allows for the medium speed ECM airflow setting to be adjusted.		
303	AV	HighECMSpd	high_ecm_spd_c	R/W	11	no units	Displays and allows for the high speed ECM airflow setting to be adjusted.		
304	AV	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.		
305	AV	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.		
306	AV	ClgCFMOffsetAV	clg_cfm_offset_av_c	R/W	4	no units	Numeric value for selecting dehumidification operation for ECM blower.		
307	AV	OccDehumSetpt	occ_dehum_setpt_c	R/W	53	%rh	Allows for the adjustment of the occupied dehumidification set point.		
308	AV	UnnoccDehumSetpt	unnocc_dehum_setpt_c	R/W	75	%rh	Allows for the adjustment of the unoccupied dehumidification set point.		
309	AV	DehumSetPt	dehum_setpt	R		%rh	Displays the currently active dehumidification setpoint.		
310	AV	DehumDiff	dehum_diff_c	R/W	5	%rh	Allows for the adjustment of the dehumidification differential, or deadband for operation.		
311	AV	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.		
312	AV	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.		
313	AV	PumpOptionA	pump_opt_a_c	R/W	0	no units	Displays and allows selection of the pump or loop option for circuit A.		
314	AV	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.		
315	AV	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.		
316	AV	PumpOptionB	pump_opt_b_c	R/W	0	no units	Displays and allows selection of the pump or loop option for circuit B.		
317	AV	FlowMeterA	flow_meter_a_c	R/W	0	no units	Displays and allows selection of the flow meter option for circuit A.		
318	AV	FlowMeterB	flow_meter_b_c	R/W	0	no units	Displays and allows selection of the flow meter option for circuit B.		
319	AV	DHWSetptA	dhw_setpt_a_c	R/W	130	°F	Displays and allows selection of the hot water setpoint for circuit A.		
320	AV	DHWSetptB	dhw_setpt_b_c	R/W	130	°F	Displays and allows selection of the hot water setpoint for circuit B.		
321	AV	EnergyMonA	energy_mon_a_c	R/W	0	no units	Displays and allows selection of the energy monitor option for circuit A.		
322	AV	EnergyMonB	energy_mon_b_c	R/W	0	no units	Displays and allows selection of the energy monitor option for circuit B.		
323	AV	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.		
324	AV	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.		
325	AV	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.		
326	AV	BlowerConfig	blower_config_c	R/W	9	no units	Displays and allows selection of the blower configuration.		
400	AV	FactTestCmd	fact_test_c	R/W	0	no units	Do Not Map To BAS		
401	AV	point name	m409_cmd	R/W	0	no units	Do Not Map To BAS		
402	AV	point name	m488_cmd	R/W	0	no units	Do Not Map To BAS		
403	AV	point name	m417_cmd	R/W	0	no units	Do Not Map To BAS		
404	AV	point name	m494_cmd	R/W	0	no units	Do Not Map To BAS		

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								Inactive = 0	Active = 1
405	AV	point name	m421_cmd	R/W	0	no units	Do Not Map To BAS		
406	AV	point name	m495_cmd	R/W	0	no units	Do Not Map To BAS		
407	AV	point name	m425_cmd	R/W	0	no units	Do Not Map To BAS		
408	AV	point name	m496_cmd	R/W	0	no units	Do Not Map To BAS		
409	AV	point name	m429_cmd	R/W	0	no units	Do Not Map To BAS		
410	AV	point name	m497_cmd	R/W	0	no units	Do Not Map To BAS		
411	AV	point name	m433_cmd	R/W	0	no units	Do Not Map To BAS		
412	AV	point name	m498_cmd	R/W	0	no units	Do Not Map To BAS		
413	AV	point name	m441_cmd	R/W	0	no units	Do Not Map To BAS		
414	AV	point name	m445_cmd	R/W	0	no units	Do Not Map To BAS		
415	AV	point name	m500_cmd	R/W	0	no units	Do Not Map To BAS		
416	AV	point name	m449_cmd	R/W	0	no units	Do Not Map To BAS		
417	AV	point name	m501_cmd	R/W	0	no units	Do Not Map To BAS		
418	AV	point name	m453_cmd	R/W	0	no units	Do Not Map To BAS		
420	AV	TstatOvrd	tstat_ovrd_c	R/W	0	no units	Do Not Map To BAS		
430	AV	abc_fw_rev_a	abc_fw_rev_a	R		no units	Do Not Map To BAS		
431	AV	sw_part_no_a	sw_part_no_a	R		no units	Do Not Map To BAS		
432	AV	abc_fw_beta_a	abc_fw_beta_a	R		no units	Do Not Map To BAS		
433	AV	abc_fw_rev_b	abc_fw_rev_b	R		no units	Do Not Map To BAS		
434	AV	sw_part_no_b	sw_part_no_b	R		no units	Do Not Map To BAS		
435	AV	abc_fw_beta_b	abc_fw_beta_b	R		no units	Do Not Map To BAS		
500	AV	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.		
501	AV	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.		
502	AV	ZoneTempOvrd	zone_temp_ovrd_c	R/W	0	°F	Allows for the Zone Temp to be overridden by the BAS if necessary, need to command BV-500 to "Active or BAS" before the override will work.		
503	AV	ZoneHum	zone_hum	R		%rh	Displays the humidity value of the zone sensor if it is equipped with a humidity sensor.		
504	AV	HumidityCmd	humidity_c	R/W	0	%rh	Allows for the BAS to override the space humidity value if desired.		
505	AV	CO2stat	co2_stat	R		ppm	Displays the CO2 value if the zone sensor is equipped with the sensor		
506	AV	CO2cmd	co2_cmd_c	R/W	0	ppm	Allows for the BAS to write the CO2 value to the UPC if desired.		
507	AV	VOCstat	voc_stat	R		ppm	Displays the VOC value if the zone sensor is equipped with the sensor		
508	AV	VOCcmd	voc_cmd_c	R/W	0	ppm	Allows for the BAS to write the VOC value to the UPC if desired.		
509	AV	OccManCmdAV	occ_man_av_c	R/W	1	no units	Allows for the BAS to command the occupancy of the unit if BV-504 is set for "AV" or "Active". If BV-504 is not set for Active or AV then commands to this AV will be ignored.		
510	AV	EffOccStat	eff_occ_st	R		no units	Displays the current occupancy status of the system.		
511	AV	Setpoint	occ_clg_setpt_c	R/W		°F	Displays and sets the occupied cooling set point.		
512	AV	Setpoint	occ_htg_setpt_c	R/W		°F	Displays and sets the occupied heating set point.		
513	AV	Setpoint	unocc_clg_setpt_c	R/W		°F	Displays and sets the unoccupied cooling set point.		
514	AV	Setpoint	unocc_htg_setpt_c	R/W		°F	Displays and sets the unoccupied heating set point.		
515	AV	StandbyCoolSetpt	standby_cool_setpt_c	R/W	76	°F	Displays and sets the standby cooling set point.		
516	AV	StandbyHeatSetpt	standby_heat_setpt_c	R/W	68	°F	Displays and sets the standby heating set point.		
517	AV	Setpoint	eff_clg_setpt_c	R		°F	Displays the effective cooling set point.		
518	AV	Setpoint	eff_htg_setpt_c	R		°F	Displays the effective heating set point.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
521	AV	SetPtDiff	setpt_diff_c	R/W	2	°F	Displays and sets the minimum temperature between the heating and cooling setpoints.		
522	AV	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.		
523	AV	TempOccTime	temp_occ_time	R		m/sec	Displays the amount of time left in temporary occupancy only while in Temp Occ.		
524	AV	OccManValue	occ_man_value	R		no units	Displays the currently selected occupancy value.		
600	AV	EconMode	econ_mode	R		no units	Displays the currently active Economizer mode.		
601	AV	EconDampPos	econ_damp_pos	R		%	Displays the current damper position determined by Economizer logic.		
602	AV	AtmPres	atm_pres_c	R/W	14.1	psi	Allows the BAS to supply the current atmospheric pressure for enthalpy calculations.		
603	AV	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).		
604	AV	AirPres	air_pres	R		psi	Current atmospheric pressure value being used for enthalpy calculations.		
605	AV	OATadjust	oat_adjust_c	R/W	0	°F	Calibration offset value for outdoor air temperature sensor.		
606	AV	OAToverride	oat_override_c	R/W	0	°F	Allows the BAS to write the outdoor air temperature to the UPC (BV:609 must be set to use this value).		
607	AV	OATstat	oat_stat	R		°F	Displays the current usable outdoor air temperature value.		
608	AV	OAHadjust	oah_adjust_c	R/W	0	%rh	Calibration offset value for outdoor air humidity sensor.		
609	AV	OAHoverride	oah_override_c	R/W	0	%rh	Allows the BAS to write the outdoor air humidity to the UPC (BV:611 must be set to use this value).		
610	AV	OAHstat	oah_stat	R		%rh	Displays the current usable outdoor air humidity value.		
611	AV	OutEnth	out_enth	R		Btu/lb	Displays the currently calculated outdoor air enthalpy value.		
612	AV	OutDew	out_dew	R		°F	Displays the currently calculated outdoor air dew point value.		
613	AV	RATadjust	rat_adjust_c	R/W	0	°F	Calibration offset value for return air temperature sensor.		
614	AV	RAToverride	rat_override_c	R/W	0	°F	Allows the BAS to write the return air temperature to the UPC (BV:613 must be set to use this value).		
615	AV	RATstat	rat_stat	R		°F	Displays the current usable return air temperature value.		
616	AV	RAHadjust	rah_adjust_c	R/W	0	%rh	Calibration offset value for return air humidity sensor.		
617	AV	RAHoverride	rah_override_c	R/W	0	%rh	Allows the BAS to write the return air humidity to the UPC (BV:615 must be set to use this value).		
618	AV	RAHstat	rah_stat	R		%rh	Displays the current usable return air humidity value.		
619	AV	RetEnth	ret_enth	R		Btu/lb	Displays the currently calculated return air enthalpy value.		
620	AV	RetDew	ret_dew	R		°F	Displays the currently calculated return air dew point value.		
630	AV	EconAV	econ_av_c	R/W	5	no units	Displays and allows selection of Economizer operating mode using numeric value.		
631	AV	DBSetPt	db_setpt_c	R/W	63	°F	Displays and allows adjustment of dry bulb set point for Economizer operation.		
632	AV	DBLimit	db_limit_c	R/W	75	°F	Displays and allows adjustment of dry bulb limit for Economizer operation.		
633	AV	DBDiff	db_diff_c	R/W	2	°F	Displays and allows adjustment of dry bulb differential for Economizer operation.		
634	AV	EnthSetPt	enth_setpt_c	R/W	24	Btu/lb	Displays and allows adjustment of the enthalpy set point for Economizer operation.		
635	AV	EnthLimit	enth_limit_c	R/W	30	Btu/lb	Displays and allows adjustment of the enthalpy limit for Economizer operation.		
636	AV	EnthDiff	enth_diff_c	R/W	2	Btu/lb	Displays and allows adjustment of the enthalpy differential for Economizer operation.		
637	AV	MASetPt	ma_setpt_c	R/W	53	°F	Displays and allows adjustment of mixed air set point for Economizer operation.		
638	AV	MinDmpPos	min_dmp_pos_c	R/W	30	%	Displays and allows adjustment of the minimum damper position for Economizer operation.		
639	AV	MinLATLim	min_lat_lim_c	R/W	45	°F	Displays and allows adjustment of the minimum leaving air temperature set point for Economizer operation.		
640	AV	MinOATClg	min_oat_clg_c	R/W	40	°F	Displays and allows adjustment of minimum outdoor air temperature for mechanical cooling operation.		
641	AV	MinOATVent	min_oat_vent_c	R/W	0	°F	Displays and allows adjustment of the minimum outdoor temperature for ventilation operation.		
642	AV	MaxDCVPos	max_dcv_pos_c	R/W	40	%	Displays and allows adjustment of the maximum damper position for demand controlled ventilation.		
643	AV	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.		
644	AV	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.		

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Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
645	AV	SamTime	sam_time_c	R/W	60	seconds	Displays and allows adjustment of the outdoor air temperature sampling time for Economizer operation.		
646	AV	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.		
647	AV	CompUpTime	comp_up_time_c	R/W	120	seconds	Displays and allows adjustment of the minimum time required for upstaging with Economizer operation.		
648	AV	CompDnTime	comp_dn_time_c	R/W	120	seconds	Displays and allows adjustment of the maximum time required for upstaging with Economizer operation.		
649	AV	NATime	na_time_c	R/W	60	seconds	Displays and allows adjustment of the damper adjustment time during neutral air operation.		
Object ID	Object Type	Display Name	Reference Name	Read/Write	Default Value	Units	Binary Values	State Text	
								Inactive = 0	Active = 1
100	BV	FanOperation	fan_operation_c	R/W	Active (1)	--	Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
101	BV	EmShutdown	em_shutdown_c	R/W	Inactive (0)	--	Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
102	BV	ESstat	es_stat	R		--	Emergency Shutdown status of System.	Normal	Shutdown
103	BV	ESstatA	es_stat_a	R		--	Emergency Shutdown status of ABC A.	Normal	Shutdown
104	BV	ESstatB	es_stat_b	R		--	Emergency Shutdown status of ABC B.	Normal	Shutdown
105	BV	LoadShed	load_shed_c	R/W	Inactive (0)	--	Allows for the network to issue a load shed command to the unit	Off	On
106	BV	LSstatA	ls_stat_a	R		--	Load Shed status of ABC A.	Normal	Load Shed
107	BV	LSstatB	ls_stat_b	R		--	Load Shed status of ABC B.	Normal	Load Shed
108	BV	Y1Dem	y1_dem	R		--	Displays the status of the Y1 demand calculated by the internal PID logic.	Off	On
109	BV	Y2Dem	y2_dem	R		--	Displays the status of the Y2 demand calculated by the internal PID logic.	Off	On
110	BV	NetworkY1	network_y1_c	R/W	Inactive (0)	--	Used to generate a Y1 demand from BAS.	Off	On
111	BV	NetworkY2	network_y2_c	R/W	Inactive (0)	--	Used to generate a Y2 demand from BAS.	Off	On
112	BV	NetworkW	network_w_c	R/W	Inactive (0)	--	Used to generate a W demand from BAS.	Off	On
113	BV	NetworkO	network_o_c	R/W	Inactive (0)	--	Used to generate a O demand from BAS.	Off	On
114	BV	NetworkG	network_g_c	R/W	Inactive (0)	--	Used to generate a G demand from BAS.	Off	On
115	BV	NetworkDH	network_dh_c	R/W	Inactive (0)	--	Used to generate a DH demand from BAS.	Off	On
116	BV	EH1OverCmd	eh1_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH1 output from BAS.	Off	On
117	BV	EH2OverCmd	eh2_override_c	R/W	Inactive (0)	--	Used to directly control the ABC A EH2 output from BAS.	Off	On
118	BV	EH3OverCmd	eh3_override_c	R/W	Inactive (0)	--	Used to directly control the ABC B EH1 output from BAS.	Off	On
119	BV	EH4OverCmd	eh4_override_c	R/W	Inactive (0)	--	Used to directly control the ABC B EH2 output from BAS.	Off	On
120	BV	LeadLagEnable	lead_lag_enable_c	R/W	Active (1)	--	Displays and allows selection of compressor lead / lag operation.	Off	On
121	BV	Y1CmdStat	y1_cmd_stat	R		--	Displays the status of the ABC A Y1 call from the UPC	Off	On
122	BV	Y2CmdStat	y2_cmd_stat	R		--	Displays the status of the ABC B Y1 call from the UPC	Off	On
123	BV	WCmdStat	w_cmd_stat	R		--	Displays the status of the ABC W call from the UPC	Off	On
124	BV	OCmdStat	o_cmd_stat	R		--	Displays the status of the ABC O call from the UPC	Heating	Cooling
125	BV	GCmdStat	g_cmd_stat	R		--	Displays the status of the ABC G call from the UPC	Off	On
126	BV	DHCmdStat	dh_cmd_stat	R		--	Displays the status of the ABC DH call from the UPC	Off	On
127	BV	ManualECM	manual_ecm_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
128	BV	ManVSPump	man_vs_pump_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
129	BV	ManDamp	man_damp_c	R/W	Inactive (0)	--	Do Not Map To BAS	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
130	BV	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
131	BV	AlarmResetStat	alarm_reset_stat	R		--	Displays the commanded status of the alarm reset command.	Off	On
132	BV	ABCCommFltA	abc_commflt_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
133	BV	ModbusCommA	modbus_comm_a	R		--	Displays the status of the Modbus communication between the ABC A and the UPC	Normal Communication	Communication Fault
134	BV	ABCCommFltB	abc_commflt_b	R		--	Displays the status of the Modbus communication between the ABC B and the UPC	Normal Communication	Communication Fault
135	BV	ModbusCommB	modbus_comm_b	R		--	Displays the status of the Modbus communication between the ABC B and the UPC	Normal Communication	Communication Fault
136	BV	FP1FaultA	fp1_fault_a	R		--	Displays status of FP1 fault condition for circuit A.	Normal	Fault
137	BV	FP1FaultB	fp1_fault_b	R		--	Displays status of FP1 fault condition for circuit B.	Normal	Fault
138	BV	FilterAlmReset	filter_alm_reset_c	R/W	Inactive (0)	--	Used to reset the dirty filter alarm after the filter has been changed.	Off	On
139	BV	DirtyFilterAlarm	dirty_filter_alarm	R		--	Displays the status of the dirty filter alarm.	Normal	Change Filter
140	BV	CondStatA	cond_stat_a	R		--	Displays the status of the condensate input on ABC A.	Normal	Alarm
141	BV	AlarmHdwStatA	alarm_hdw_stat_a	R		--	Displays the status of the ABC A Alarm output.	Off	On
142	BV	LockHdwStatA	lock_hdw_stat_a	R		--	Displays the status of the ABC A Lockout output.	Normal	Lockout
143	BV	LockoutStatA	lockout_stat_a	R		--	Displays the lockout status of the circuit A system.	Normal	Alarm
144	BV	CondStatB	cond_stat_b	R		--	Displays the status of the condensate input on ABC B.	Normal	Alarm
145	BV	AlarmHdwStatB	alarm_hdw_stat_b	R		--	Displays the status of the ABC B Alarm output.	Off	On
146	BV	LockHdwStatB	lock_hdw_stat_b	R		--	Displays the status of the ABC B Lockout output.	Normal	Lockout
147	BV	LockoutStatB	lockout_stat_b	R		--	Displays the lockout status of the circuit B system.	Normal	Alarm
200	BV	CompA	comp_stat_a	R		--	Displays the status of the CC compressor output on ABC A.	Off	On
201	BV	HiCompA	hi_comp_stat_a	R		--	Displays the status of the CC2 compressor output on ABC A.	Off	On
202	BV	RevVlvA	rev_vlv_stat_a	R		--	Displays the status of the reversing valve output on ABC A.	Heat	Cool
203	BV	FanA	fan_stat_a	R		--	Displays the status of the Fan relay output on ABC A.	Off	On
204	BV	EH1A	eh1_stat_a	R		--	Displays the status of the EH1 output on ABC A.	Off	On
205	BV	EH2A	eh2_stat_a	R		--	Displays the status of the EH2 output on ABC A.	Off	On
206	BV	Acc1A	acc1_stat_a	R		--	Displays the status of the ACC1 output on ABC A.	Off	On
207	BV	CompB	comp_stat_b	R		--	Displays the status of the CC compressor output on ABC B.	Off	On
208	BV	HiCompB	hi_comp_stat_b	R		--	Displays the status of the CC2 compressor output on ABC B.	Off	On
209	BV	RevVlvB	rev_vlv_stat_b	R		--	Displays the status of the reversing valve output on ABC B.	Heat	Cool
210	BV	FanB	fan_stat_b	R		--	Displays the status of the Fan relay output on ABC B.	Off	On
211	BV	EH1B	eh1_stat_b	R		--	Displays the status of the EH1 output on ABC B.	Off	On
212	BV	EH2B	eh2_stat_b	R		--	Displays the status of the EH2 output on ABC B.	Off	On
213	BV	Acc1B	acc1_stat_b	R		--	Displays the status of the ACC1 output on ABC B.	Off	On
214	BV	FP1LimA	fp1_lim_a	R		--	Displays the FP1 limit temperature for ABC A.	15 Deg	30 Deg
215	BV	FP2LimA	fp2_lim_a	R		--	Displays the FP2 limit temperature for ABC A.	15 Deg	30 Deg
216	BV	RVSetupA	rv_setup_a	R		--	Displays the reversing valve setup for ABC A.	Cooling	Heating
217	BV	SW2-4A	sw_2_4_a	R		--	Displays the position of SW2-4 on ABC A which configures the operation of ACC1.	Off	On

BACnet 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
218	BV	SW2-5A	sw_2_5_a	R		--	Displays the position of SW2-5 on ABC A which configures the operation of ACC1.	Off	On
219	BV	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
220	BV	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
221	BV	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
222	BV	SW1TestA	sw1_test_a	R		--	Displays the status of the SW1 test button on ABC A.	Off	On
223	BV	FP1LimB	fp1_lim_b	R		--	Displays the FP1 limit temperature for ABC B.	15 Deg	30 Deg
224	BV	FP2LimB	fp2_lim_b	R		--	Displays the FP2 limit temperature for ABC B.	15 Deg	30 Deg
225	BV	RVSetupB	rv_setup_b	R		--	Displays the reversing valve setup for ABC B.	Cooling	Heating
226	BV	SW2-4B	sw_2_4_b	R		--	Displays the position of SW2-4 on ABC B which configures the operation of ACC1.	Off	On
227	BV	SW2-5B	sw_2_5_b	R		--	Displays the position of SW2-5 on ABC B which configures the operation of ACC1.	Off	On
228	BV	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
229	BV	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
230	BV	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
231	BV	SW1TestB	sw1_test_b	R		--	Displays the status of the SW1 test button on ABC B.	Off	On
232	BV	Y1hdwA	y1_hdw_a	R		--	Displays the staus of the physical Y1 input on ABC A.	Off	On
233	BV	Y2hdwA	y2_hdw_a	R		--	Displays the staus of the physical Y2 input on ABC A.	Off	On
234	BV	WhdwA	w_hdw_a	R		--	Displays the staus of the physical W input on ABC A.	Off	On
235	BV	OhdwA	o_hdw_a	R		--	Displays the staus of the physical O input on ABC A.	Off	On
236	BV	GhdwA	g_hdw_a	R		--	Displays the staus of the physical G input on ABC A.	Off	On
237	BV	DHhdwA	dh_hdw_a	R		--	Displays the staus of the physical DH input on ABC A.	Off	On
238	BV	HPhdwA	hp_hdw_a	R		--	Displays the staus of the physical HP input on ABC A.	Open	Closed
239	BV	LPhdwA	lp_hdw_a	R		--	Displays the staus of the physical LP input on ABC A.	Open	Closed
240	BV	LShdwA	ls_hdw_a	R		--	Displays the staus of the physical LS input on ABC A.	Normal	LoadShed
241	BV	EShdwA	es_hdw_a	R		--	Displays the staus of the physical ES input on ABC A.	Normal	Shutdown
242	BV	ABCTestA	abc_test_mode_a	R		--	Displays the current status of the test mode for ABC A.	Off	On
243	BV	Y1hdwB	y1_hdw_b	R		--	Displays the staus of the physical Y1 input on ABC B.	Off	On
244	BV	Y2hdwB	y2_hdw_b	R		--	Displays the staus of the physical Y2 input on ABC B.	Off	On
245	BV	WhdwB	w_hdw_b	R		--	Displays the staus of the physical W input on ABC B.	Off	On
246	BV	OhdwB	o_hdw_b	R		--	Displays the staus of the physical O input on ABC B.	Off	On
247	BV	GhdwB	g_hdw_b	R		--	Displays the staus of the physical G input on ABC B.	Off	On
248	BV	DHhdwB	dh_hdw_b	R		--	Displays the staus of the physical DH input on ABC B.	Off	On
249	BV	HPhdwB	hp_hdw_b	R		--	Displays the staus of the physical LP input on ABC B.	Open	Closed
250	BV	LPhdwB	lp_hdw_b	R		--	Displays the staus of the physical HP input on ABC B.	Open	Closed
251	BV	LShdwB	ls_hdw_b	R		--	Displays the staus of the physical LS input on ABC B.	Normal	LoadShed
252	BV	EShdwB	es_hdw_b	R		--	Displays the staus of the physical ES input on ABC B.	Normal	Shutdown
253	BV	ABCTestB	abc_test_mode_b	R		--	Displays the current status of the test mode for ABC B.	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
300	BV	DDCenable	ddc_enable_c	R/W	Active (1)	--	Do Not Map To BAS	T-Stat	UPC
301	BV	SysComm	sys_comm	R		--	Displays the status of valid system communications with ABC controls.	Off	On
302	BV	EH1Mode	eh1_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH1 output.	Aux_Heat	Network_EH
303	BV	EH2Mode	eh2_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC A EH2 output.	Aux_Heat	Network_EH
304	BV	EH3Mode	eh3_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC B EH1 output.	Aux_Heat	Network_EH
305	BV	EH4Mode	eh4_mode_c	R/W	Inactive (0)	--	Displays and allows selection of operation for ABC B EH2 output.	Aux_Heat	Network_EH
306	BV	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
307	BV	DHenable	dh_enable_c	R/W	Inactive (0)	--	Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled
308	BV	DHWenableA	dhw_enable_a_c	R/W	Inactive (0)	--	Allows for the network to enable/disable DHW operation on circuit A.	Off	On
309	BV	DHWenableB	dhw_enable_b_c	R/W	Inactive (0)	--	Allows for the network to enable/disable DHW operation on circuit B.	Off	On
310	BV	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
311	BV	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
312	BV	SW3ComA	sw2_3_a_c	R/W	Active (1)	--	Used to select the position of SW2-3 on ABC A for override.	Cooling	Heating
313	BV	SW4ComA	sw2_4_a_c	R/W	Active (1)	--	Used to select the position of SW2-4 on ABC A for override.	Off	On
314	BV	SW5ComA	sw2_5_a_c	R/W	Active (1)	--	Used to select the position of SW2-5 on ABC A for override.	Off	On
315	BV	SW6ComA	sw2_6_a_c	R/W	Active (1)	--	Used to select the position of SW2-6 on ABC A for override.	Dual Capacity	Single Capacity
316	BV	SW7ComA	sw2_7_a_c	R/W	Active (1)	--	Used to select the position of SW2-7 on ABC A for override.	Pulsed	Continuous
317	BV	SW8ComA	sw2-8_a_c	R/W	Active (1)	--	Used to select the position of SW2-8 on ABC A for override.	Reheat	Normal
318	BV	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
319	BV	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
320	BV	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
321	BV	SW3ComB	sw2_3_b_c	R/W	Active (1)	--	Used to select the position of SW2-3 on ABC B for override.	Cooling	Heating
322	BV	SW4ComB	sw2_4_b_c	R/W	Active (1)	--	Used to select the position of SW2-4 on ABC B for override.	Off	On
323	BV	SW5ComB	sw2_5_b_c	R/W	Inactive (0)	--	Used to select the position of SW2-5 on ABC B for override.	Off	On
324	BV	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
325	BV	SW7ComB	sw2_7_b_c	R/W	Active (1)	--	Used to select the position of SW2-7 on ABC B for override.	Pulsed	Continuous
326	BV	SW8ComB	sw2-8_b_c	R/W	Active (1)	--	Used to select the position of SW2-8 on ABC B for override.	Reheat	Normal
327	BV	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
330	BV	SetBlwrAddrCmd	set_blwr_addr_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
331	BV	ClrBlwrAddrCmd	clr_blwr_addr_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
400	BV	TestModeEna	test_mode_ena_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
401	BV	FactTestEna	fact_test_ena_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
402	BV	ClearFaults	clear_faults_c	R/W	Inactive (0)	--	Do Not Map To BAS	Off	On
403	BV	DevEnable	dev_enable_c	R/W	Inactive (0)	--	Used to add communicating devices to the Aurora Control Boards.	Off	On
406	BV	AXBenableA	axb_enable_a_c	R/W	Active (1)	--	Do Not Map To BAS	Off	On
407	BV	AXBenableB	axb_enable_b_c	R/W	Active (1)	--	Used along with BV:403 to add the AXB to ABC B.	No AXB	AXB Present
500	BV	TempSelector	temp_selector_c	R/W	Inactive (0)	--	Used to select between wall sensor and BAS for space temperature value.	Sensor	BAS
501	BV	ValidSensor	valid_sensor	R		--	Displays current status of having a valid space temperature value.	Off	On
502	BV	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

BACnet 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
504	BV	OccCmdSelect	occ_cmd_select_c	R/W	Inactive (0)	--	Occupancy command selection between AV:509 & MSV:500	MSV	AV
505	BV	OccSensorEnable	occ_sensor_enable_c	R/W	Inactive (0)	--	Enables or disables occupancy sensor connected to ABC O input.	Disabled	Enabled
506	BV	OccManCmdBV	occ_man_cmd_bv_c	R/W	Inactive (0)	--	BAS occupancy signal.	Off	On
507	BV	TempOcc	temp_occ_c	R/W	Active (1)	--	Enables or disables temporary occupancy at zone sensors.	Enable	Disable
508	BV	TempOccStat	temp_occ_stat	R		--	Displays temporary occupancy status.	Normal	Temp Occ
509	BV	NotUnoccupied	not_unoccupied	R		--	Do Not Map To BAS	Off	On
510	BV	FanOccupied	fan_occupied	R		--	Do Not Map To BAS	Off	On
550	BV	ArchiveNow	archive_now_c	R/W	Inactive (0)	--	Forces UPC to Archive the current system settings and database values.	No	Yes
600	BV	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
601	BV	EconAvail	econ_avail	R		--	Displays current availability fo Economizer for free cooling.	Not Avail	Available
602	BV	LVTStatus	lvt_status	R		--	Indicates if the low outdoor temperature ventilation logic is active.	Inactive	Active
603	BV	DCVStatus	dcv_status	R		--	Indicates if demand controlled ventilation logic is active.	Inactive	Active
604	BV	EconStat	econ_stat	R		--	Indicates if economizer operation is active.	Off	On
605	BV	LowLAT	low_lat	R		--	Indicates if Low LAT logic is active.	Off	On
606	BV	Y1Demand	y1_demand	R		--	Indicates that Economizer logic is passing on a Y1 compressor demand.	Off	On
607	BV	Y2Demand	y2_demand	R		--	Indicates that Economizer logic is passing on a Y2 compressor demand.	Off	On
608	BV	PresSelect	pres_select_c	R/W	Inactive (0)	--	Selects between atmospheric pressure and elevation for enthalpy calculations.	Pressure	Elevation
609	BV	OATselect	oat_select_c	R/W	Inactive (0)	--	Selection value for OAT source	Sensor	BAS
610	BV	OATvalid	oat_valid	R		--	Indication that a valid OAT value is present.	Off	On
611	BV	OAHselect	oah_select_c	R/W	Inactive (0)	--	Selection value for OAH source	Sensor	BAS
612	BV	OAHvalid	oah_valid	R		--	Indication that a valid OAH value is present.	Off	On
613	BV	RATselect	rat_select_c	R/W	Inactive (0)	--	Selection value for RAT source	Sensor	BAS
614	BV	RATvalid	rat_valid	R		--	Indication that a valid RAT value is present.	Off	On
615	BV	RAHselect	rah_select_c	R/W	Inactive (0)	--	Selection value for RAH source	Sensor	BAS
616	BV	RAHvalid	rah_valid	R		--	Indication that a valid RAH value is present.	Off	On
620	BV	LowLATPos	low_lat_pos_c	R/W	Active (1)	--	Selects the minimum damper position for operation with low LAT conditions.	Min Position	Closed
621	BV	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
622	BV	DemCtrlVent	dem_ctrl_vent_c	R/W	Inactive (0)	--	Enables or disables Demand Controlled Ventilation.	Disabled	Enabled
623	BV	DCVvariable	dcv_variable_c	R/W	Inactive (0)	--	Selects the control variable for Demand Controlled Ventilation.	CO2	VOC

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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
100	MSV	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.	
300	MSV	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]	
301	MSV	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]	
302	MSV	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]	
303	MSV	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]	
500	MSV	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]	
501	MSV	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]	
502	MSV	LockoutEnumMSV	lockout_enum_msv	R		--	Do Not Map To BAS		
600	MSV	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]	

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



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