

AURORA

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

UPC LON Points List For Single/Dual Compressor Rooftop Economizer

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

LON Points for Single Compressor Rooftop Economizer

Software Version 1.01 Utilizing the Aurora UPC Controller



NV #	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
0	SNVT_temp_p	nvoZoneTemp	zone_temp	Output_Active		°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.		
1	SNVT_temp_p	nviZoneTempOvrd	zone_temp_ovrd_c	Input_Passive	0	°F	Allows for the Zone Temp to be overridden by the BAS if necessary.		
2	SNVT_lev_percent	nvoHumidity	zone_hum	Output_Active		%rh	Displays the humidity value of the zone sensor if it is equipped with a humidity sensor.		
3	SNVT_lev_percent	nviHumidity	humidity_c	Input_Passive	0	%rh	Allows for the BAS to override the space humidity value if desired.		
4	SNVT_ppm	nvoCO2	co2_stat	Output_Active		ppm	Displays the CO2 value if the zone sensor is equipped with the sensor		
5	SNVT_ppm	nvoVOC	voc_stat	Output_Active		ppm	Displays the VOC value if the zone sensor is equipped with the sensor		
6	SNVT_temp_p	nviOccClgSp	occ_clg_setpt_c	Input_Passive		°F	Displays and sets the occupied cooling set point.		
7	SNVT_temp_p	nviOccHtgSp	occ_htg_setpt_c	Input_Passive		°F	Displays and sets the occupied heating set point.		
8	SNVT_temp_p	nviUnoccClgSp	unocc_clg_setpt_c	Input_Passive		°F	Displays and sets the unoccupied cooling set point.		
9	SNVT_temp_p	nviUnoccHtgSp	unocc_htg_setpt_c	Input_Passive		°F	Displays and sets the unoccupied heating set point.		
10	SNVT_temp_p	nviStandbyCool	standby_cool_setpt_c	Input_Passive	76	°F	Displays and sets the standby cooling set point.		
11	SNVT_temp_p	nviStandbyHeat	standby_heat_setpt_c	Input_Passive	68	°F	Displays and sets the standby heating set point.		
12	SNVT_temp_p	nvoEffClgSp	eff_clg_setpt_c	Input_Passive		°F	Displays the effective cooling set point.		
13	SNVT_temp_p	nvoEffHtgSp	eff_htg_setpt_c	Input_Passive		°F	Displays the effective heating set point.		
14	SNVT_switch	nviZoneTempSelec	temp_selector_c	Input_Passive	0		Used to select between wall sensor and BAS for space temperature value.	Sensor	BAS
15	SNVT_count_inc	nviOccManCmd	occ_man_msv_c	Input_Passive	1		BAS occupancy signal.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
16	SNVT_count_inc	nvoEffectOccup	eff_occ_msv	Output_Active			Multi state value displaying the current system occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby] [5 = Occupancy Sensor]	
17	SNVT_temp_p	nvoOAT	oat_stat	Output_Active		°F	Displays the current usable outdoor air temperature value.		
18	SNVT_lev_percent	nvoOAH	oah_stat	Output_Active		%rh	Displays the current usable outdoor air humidity value.		
19	SNVT_enthalpy	nvoOAEnth	out_enth	Output_Active		Btu/lb	Displays the currently calculated outdoor air enthalpy value.		
20	SNVT_temp_p	nvoRAT	rat_stat	Output_Active		°F	Displays the current usable return air temperature value.		
21	SNVT_lev_percent	nvoRAH	rah_stat	Output_Active		%rh	Displays the current usable return air humidity value.		
22	SNVT_enthalpy	nvoRAEnth	ret_enth	Output_Active		Btu/lb	Displays the currently calculated return air enthalpy value.		
23	SNVT_temp_p	nviDBSetPt	db_setpt_c	Input_Passive	63	°F	Displays and allows adjustment of dry bulb set point for Economizer operation.		
24	SNVT_temp_p	nviDBLimit	db_limit_c	Input_Passive	75	°F	Displays and allows adjustment of dry bulb limit for Economizer operation.		
25	SNVT_temp_p	nviDBDiff	db_diff_c	Input_Passive	2	°F	Displays and allows adjustment of dry bulb differential for Economizer operation.		
26	SNVT_enthalpy	nviEnthSetPt	enth_setpt_c	Input_Passive	24	Btu/lb	Displays and allows adjustment of the enthalpy set point for Economizer operation.		
27	SNVT_enthalpy	nviEnthLimit	enth_limit_c	Input_Passive	30	Btu/lb	Displays and allows adjustment of the enthalpy limit for Economizer operation.		
28	SNVT_enthalpy	nviEnthDiff	enth_diff_c	Input_Passive	2	Btu/lb	Displays and allows adjustment of the enthalpy differential for Economizer operation.		
29	SNVT_temp_p	nviMASetPt	ma_setpt_c	Input_Passive	53	°F	Displays and allows adjustment of mixed air set point for Economizer operation.		
30	SNVT_lev_percent	nviMinDampPos	min_dmp_pos_c	Input_Passive	30	%	Displays and allows adjustment of the minimum damper position for Economizer operation.		
31	SNVT_temp_p	nviMinLATLim	min_lat_lim_c	Input_Passive	45	°F	Displays and allows adjustment of the minimum leaving air temperature set point for Economizer operation.		
32	SNVT_temp_p	nviMinOATClg	min_oat_clg_c	Input_Passive	40	°F	Displays and allows adjustment of minimum outdoor air temperature for mechanical cooling operation.		

LON Points for Single Compressor Rooftop Economizer

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NV #	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
33	SNVT_temp_p	nviMinOATVent	min_oat_vent_c	Input_Passive	0	°F	Displays and allows adjustment of the minimum outdoor temperature for ventilation operation.		
34	SNVT_lev_percent	nviMaxDCVPos	max_dcv_pos_c	Input_Passive	40	%	Displays and allows adjustment of the maximum damper position for demand controlled ventilation.		
35	SNVT_ppm	nviLowDCVval	low_dcv_val_c	Input_Passive	600	ppm	Displays and allows adjustment of the lower variable value for demand controlled ventilation associated with the minimum damper position.		
36	SNVT_ppm	nviHighDCVval	high_dcv_val_c	Input_Passive	1200	ppm	Displays and allows adjustment of the upper variable value for demand controlled ventilation associated with the maximum demand controlled ventilation position.		
37	SNVT_switch	nviEconOn	econ_on_c	Input_Passive	0		BAS value to indicate Economizer is available for operation when being controlled in the slave mode.	Off	On
38	SNVT_switch	nvoEconAvail	econ_avail	Output_Active			Displays current availability fo Economizer for free cooling.	Not Avail	Available
39	SNVT_switch	nviLowLATPos	low_lat_pos_c	Input_Passive	1		Selects the minimum damper position for operation with low LAT conditions.	Min Position	Closed
40	SNVT_switch	nviDemCtrlVent	dem_ctrl_vent_c	Input_Passive	0		Enables or disables Demand Controlled Ventlation.	Disabled	Enabled
41	SNVT_switch	nviDCVvariable	dcv_variable_c	Input_Passive	0		Selects the control variable for Demand Controlled Ventilation.	CO2	VOC
42	SNVT_count_inc	nviEconMSV	econ_msv_c	Input_Passive	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]	
43	SNVT_lev_percent	nvoDampPos	actual_damp_pos	Output_Active		%	Displays the current damper target position.		
44	SNVT_count_inc	nvoAlarmEnum	alarm_enum	Output_Active		no units	Displays combined system alarm value		
45	SNVT_count_inc	nvoECMSpeedSw	ecm_speed_sw_a	Output_Active		no units	Displays the current ECM target speed.		
46	SNVT_temp_p	nvoLAT	lat_stat	Output_Active		°F	Displays the leaving air temperature that is connected to the AXB A.		
47	SNVT_lev_percent	nviOccDehumSp	occ_dehum_setpt_c	Input_Passive	53	%rh	Allows for the adjustment of the occupied dehumidification set point.		
48	SNVT_lev_percent	nviUnoccDehumSp	unocc_dehum_setpt_c	Input_Passive	75	%rh	Allows for the adjustment of the unoccupied dehumidification set point.		
49	SNVT_switch	nviFanOperation	fan_operation_c	Input_Passive	1		Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
50	SNVT_switch	nviEmShutdown	em_shutdown_c	Input_Passive	0		Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
51	SNVT_switch	nvoESstat	es_stat	Output_Active			Emergency Shutdown status of System.	Normal	Shutdown
52	SNVT_switch	nviLoadShed	load_shed_c	Input_Passive	0		Allows for the network to issue a load shed command to the unit	Off	On
53	SNVT_switch	nviAlarmReset	alarm_reset_c	Input_Passive	0		Allows for the network to command the alarm reset, to clear the alarm command to "ON" then Back to "OFF".	Off	On
54	SNVT_switch	nviFilterAlmRes	filter_alm_reset_c	Input_Passive	0		Used to reset the dirty filter alarm after the filter has been changed.	Off	On
55	SNVT_switch	nvoDirtyFilter	dirty_filter_alarm	Output_Active			Displays the status of the dirty filter alarm.	Normal	Change Filter
56	SNVT_switch	nvoLockStatA	lockout_stat_a	Output_Active			Displays the lockout status of the circuit A system.	Normal	Alarm
57	SNVT_switch	nvoCompA	comp_stat_a	Output_Active			Displays the status of the CC compressor output on ABC A.	Off	On
58	SNVT_switch	nviDHEnable	dh_enable_c	Input_Passive	0		Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled
59	SNVT_count_inc	nvoModeStat	mode_msv	Output_Active			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.	

Rooftop with Economizer
LON Pointlist for Dual Compressor
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LON Points for Dual Compressor Rooftop Economizer cont.

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NV #	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
0	SNVT_temp_p	nvoZoneTemp	zone_temp	Output_Active		°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.		
1	SNVT_temp_p	nviZoneTempOvrdr	zone_temp_ovrd_c	Input_Passive	0	°F	Allows for the Zone Temp to be overridden by the BAS if necessary.		
2	SNVT_lev_percent	nvoHumidity	zone_hum	Output_Active		%rh	Displays the humidity value of the zone sensor if it is equipped with a humidity sensor.		
3	SNVT_lev_percent	nviHumidity	humidity_c	Input_Passive	0	%rh	Allows for the BAS to override the space humidity value if desired.		
4	SNVT_ppm	nvoCO2	co2_stat	Output_Active		ppm	Displays the CO2 value if the zone sensor is equipped with the sensor		
5	SNVT_ppm	nvoVOC	voc_stat	Output_Active		ppm	Displays the VOC value if the zone sensor is equipped with the sensor		
6	SNVT_temp_p	nviOccClgSp	occ_clg_setpt_c	Input_Passive		°F	Displays and sets the occupied cooling set point.		
7	SNVT_temp_p	nviOccHtgSp	occ_htg_setpt_c	Input_Passive		°F	Displays and sets the occupied heating set point.		
8	SNVT_temp_p	nviUnoccClgSp	unocc_clg_setpt_c	Input_Passive		°F	Displays and sets the unoccupied cooling set point.		
9	SNVT_temp_p	nviUnoccHtgSp	unocc_htg_setpt_c	Input_Passive		°F	Displays and sets the unoccupied heating set point.		
10	SNVT_temp_p	nviStandbyCool	standby_cool_setpt_c	Input_Passive	76	°F	Displays and sets the standby cooling set point.		
11	SNVT_temp_p	nviStandbyHeat	standby_heat_setpt_c	Input_Passive	68	°F	Displays and sets the standby heating set point.		
12	SNVT_temp_p	nvoEffClgSp	eff_clg_setpt_c	Input_Passive		°F	Displays the effective cooling set point.		
13	SNVT_temp_p	nvoEffHtgSp	eff_htg_setpt_c	Input_Passive		°F	Displays the effective heating set point.		
14	SNVT_switch	nviZoneTempSelec	temp_selector_c	Input_Passive	0		Used to select between wall sensor and BAS for space temperature value.	Sensor	BAS
15	SNVT_count_inc	nviOccManCmd	occ_man_msv_c	Input_Passive	1		BAS occupancy signal.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby]	
16	SNVT_count_inc	nvoEffectOccup	eff_occ_msv	Output_Active			Multi state value displaying the current system occupancy status.	[1 = Occupied] [2 = Unoccupied] [3 = Temp Occ] [4 = Standby] [5 = Occupancy Sensor]	
17	SNVT_temp_p	nvoOAT	oat_stat	Output_Active		°F	Displays the current usable outdoor air temperature value.		
18	SNVT_lev_percent	nvoOAH	oah_stat	Output_Active		%rh	Displays the current usable outdoor air humidity value.		
19	SNVT_enthalpy	nvoOAEnth	out_enth	Output_Active		Btu/lb	Displays the currently calculated outdoor air enthalpy value.		
20	SNVT_temp_p	nvoRAT	rat_stat	Output_Active		°F	Displays the current usable return air temperature value.		
21	SNVT_lev_percent	nvoRAH	rah_stat	Output_Active		%rh	Displays the current usable return air humidity value.		
22	SNVT_enthalpy	nvoRAEnth	ret_enth	Output_Active		Btu/lb	Displays the currently calculated return air enthalpy value.		
23	SNVT_temp_p	nviDBSetPt	db_setpt_c	Input_Passive	63	°F	Displays and allows adjustment of dry bulb set point for Economizer operation.		
24	SNVT_temp_p	nviDBLimit	db_limit_c	Input_Passive	75	°F	Displays and allows adjustment of dry bulb limit for Economizer operation.		
25	SNVT_temp_p	nviDBDiff	db_diff_c	Input_Passive	2	°F	Displays and allows adjustment of dry bulb differential for Economizer operation.		
26	SNVT_enthalpy	nviEnthSetPt	enth_setpt_c	Input_Passive	24	Btu/lb	Displays and allows adjustment of the enthalpy set point for Economizer operation.		
27	SNVT_enthalpy	nviEnthLimit	enth_limit_c	Input_Passive	30	Btu/lb	Displays and allows adjustment of the enthalpy limit for Economizer operation.		
28	SNVT_enthalpy	nviEnthDiff	enth_diff_c	Input_Passive	2	Btu/lb	Displays and allows adjustment of the enthalpy differential for Economizer operation.		
29	SNVT_temp_p	nviMASetPt	ma_setpt_c	Input_Passive	53	°F	Displays and allows adjustment of mixed air set point for Economizer operation.		
30	SNVT_lev_percent	nviMinDampPos	min_dmp_pos_c	Input_Passive	30	%	Displays and allows adjustment of the minimum damper position for Economizer operation.		
31	SNVT_temp_p	nviMinLATLim	min_lat_lim_c	Input_Passive	45	°F	Displays and allows adjustment of the minimum leaving air temperature set point for Economizer operation.		
32	SNVT_temp_p	nviMinOATClg	min_oat_clg_c	Input_Passive	40	°F	Displays and allows adjustment of minimum outdoor air temperature for mechanical cooling operation.		
33	SNVT_temp_p	nviMinOATVent	min_oat_vent_c	Input_Passive	0	°F	Displays and allows adjustment of the minimum outdoor temperature for ventilation operation.		

LON Points for Dual Compressor Rooftop Economizer cont.

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NV #	SNVT Type	NV Name	Reference Name	Direction	Default Value	Units	Description	State Text	
								Inactive = 0	Active = 1
34	SNVT_lev_percent	nviMaxDCVPos	max_dcv_pos_c	Input_Passive	40	%	Displays and allows adjustment of the maximum damper position for demand controlled ventilation.		
35	SNVT_ppm	nviLowDCVval	low_dcv_val_c	Input_Passive	600	ppm	Displays and allows adjustment of the lower variable value for demand controlled ventilation associated with the minimum damper position.		
36	SNVT_ppm	nviHighDCVval	high_dcv_val_c	Input_Passive	1200	ppm	Displays and allows adjustment of the upper variable value for demand controlled ventilation associated with the maximum demand controlled ventilation position.		
37	SNVT_switch	nviEconOn	econ_on_c	Input_Passive	0		BAS value to indicate Economizer is available for operation when being controlled in the slave mode.	Off	On
38	SNVT_switch	nvoEconAvail	econ_avail	Output_Active			Displays current availability fo Economizer for free cooling.	Not Avail	Available
39	SNVT_switch	nviLowLATPos	low_lat_pos_c	Input_Passive	1		Selects the minimum damper position for operation with low LAT conditions.	Min Position	Closed
40	SNVT_switch	nviDemCtrlVent	dem_ctrl_vent_c	Input_Passive	0		Enables or disables Demand Controlled Ventilation.	Disabled	Enabled
41	SNVT_switch	nviDCVvariable	dcv_variable_c	Input_Passive	0		Selects the control variable for Demand Controlled Ventilation.	CO2	VOC
42	SNVT_count_inc	nviEconMSV	econ_msv_c	Input_Passive	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 Model]	
43	SNVT_lev_percent	nvoDampPos	actual_damp_pos	Output_Active		%	Displays the current damper target position.		
44	SNVT_count_inc	nvoAlarmEnumA	alarm_enum_a	Output_Active		no units	Displays alarm value for ABC A		
45	SNVT_count_inc	nvoAlarmEnumB	alarm_enum_b	Output_Active		no units	Displays alarm value for ABC B		
46	SNVT_count_inc	nvoAlarmEnum	alarm_enum	Output_Active		no units	Displays combined system alarm value		
47	SNVT_count_inc	nvoECMSpeedSw	ecm_speed_sw_a	Output_Active		no units	Displays the current ECM target speed.		
48	SNVT_temp_p	nvoLAT	lat_stat	Output_Active		°F	Displays the leaving air temperature that is connected to the AXB A.		
49	SNVT_lev_percent	nviOccDehumSp	occ_dehum_setpt_c	Input_Passive	53	%rh	Allows for the adjustment of the occupied dehumidification set point.		
50	SNVT_lev_percent	nviUnoccDehumSp	unocc_dehum_setpt_c	Input_Passive	75	%rh	Allows for the adjustment of the unoccupied dehumidification set point.		
51	SNVT_switch	nviFanOperation	fan_operation_c	Input_Passive	1		Allows for the network to select either cycled or continuous operation of the fan.	Cycled	Continuous
52	SNVT_switch	nviEmShutdown	em_shutdown_c	Input_Passive	0		Allows for the network to issue a emergency shutdown command to the unit.	Normal Operation	Shutdown
53	SNVT_switch	nvoESstat	es_stat	Output_Active			Emergency Shutdown status of System.	Normal	Shutdown
54	SNVT_switch	nviLoadShed	load_shed_c	Input_Passive	0		Allows for the network to issue a load shed command to the unit	Off	On
55	SNVT_switch	nviAlarmReset	alarm_reset_c	Input_Passive	0		Allows for the network to command the alarm reset, to clear the alarm command to "ON" then Back to "OFF".	Off	On
56	SNVT_switch	nviFilterAlmRes	filter_alm_reset_c	Input_Passive	0		Used to reset the dirty filter alarm after the filter has been changed.	Off	On
57	SNVT_switch	nvoDirtyFilter	dirty_filter_alarm	Output_Active			Displays the status of the dirty filter alarm.	Normal	Change Filter
58	SNVT_switch	nvoLockStatA	lockout_stat_a	Output_Active			Displays the lockout status of the circuit A system.	Normal	Alarm
59	SNVT_switch	nvoLockStatB	lockout_stat_b	Output_Active			Displays the lockout status of the circuit B system.	Normal	Alarm
60	SNVT_switch	nvoCompA	comp_stat_a	Output_Active			Displays the status of the CC compressor output on ABC A.	Off	On
61	SNVT_switch	nvoCompB	comp_stat_b	Output_Active			Displays the status of the CC compressor output on ABC B.	Off	On
62	SNVT_switch	nviDHEnable	dh_enable_c	Input_Passive	0		Allows for the network to enable/disable dehumidification.	DH Disabled	DH Enabled

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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