

#	Point Description Name	BACnet		MODBUS		N2		LON			Read Only	Description
		Name	Type ID	Object Type	Register	Type	ID	SNVT #	Name	SNVT		
1	BAS CO2 Sensor Value	bas_co2_val_1	AV:49	float value	40001	data float	1	1	nviBasCo2Val	SNVT_ppm(29)		BAS CO2 Sensor Value in PPM Default: 1001 PPM
2	BAS Mixed Air Temp	bas_mat_1	AV:86	float value	40003	data float	2	-	-	-		BAS Mixed Air Temperature Value in °F Default: 66.5 °F
3	BAS Outside Air Temperature	effective_oat_1	AV:29	float value	40005	data float	3	0	nviEffectiveOAT	SNVT_temp_p(105)		Effective Outside Air Temperature in °F Default: 60 °F
4	BAS RH Sensor Value	bas_rh_sen_val_1	AV:56	float value	40007	data float	4	15	nviBasRhSenVal	SNVT_lev_percent(81)		RH Sensor Value Supplied by BAS in % Default: 56 %RH
5	BAS Temperature Sensor Value	bas_sen_val_1	AV:19	float value	40009	data float	5	2	nviBasSenVal	SNVT_temp_p(105)		BAS Zone Temperature Sensor Value in °F Default: 74 °F
6	Evaporator Coil Configuration Selection	coil_cfg_1	AV:94	float value	40011	data float	6	-	-	-		Coil Configuration Setup 0 = Parallel (Default) 1 = Series
7	Compressor Control Mode	comp_mode_1	AV:64	float value	40013	data float	8	-	-	-		Compressor Mode Setup 0 = Zone Control - ZS (Default) 1 = Discharge Air Control 2 = Zone Control - BAS Sensor 3 = Zone Control - Remote Sensor
8	Compressor Stages	cmp_stgs_1	AV:14	float value	40001	data float	7	16	nvoCmpStgs	SNVT_count_inc(9)	✓	Reports Configuration Status of Compressor Stages 1 = 1 Compressor 1 Stage 2 = 2 Compressor 2 Stages 5 = 1 Compressor 2 Stages
9	Compressor Stages Selection	stages_1	AV:114	float value	40107	data float	79	-	-	-		Selected Compressor Stages (Configured at Factory) 1 = 1 Compressor 1 Stage 2 = 2 Compressor 2 Stages 5 = 1 Compressor 2 Stages (Default)
10	Control Source	ctrl_source_1	AV:15	float value	40023	data float	12	3	nviCtrlSource	SNVT_count_inc(9)		Control Source for Occupancy Setup 0 = Digital Input Enable (e.g. Room Occupancy Sensor) 1 = Keypad Schedule 2 = BAS Occupancy Command (Default) 3 = Factory Use Only 4 = Manual On-Continuous
11	Cooling Demand Percentage	clg_pct_1	AV:13	float value	40025	data float	13	-	-	-	✓	Cooling Status in Demand Percent, %
12	IN-2 Mode Status	ui2_mode_status_1	AV:18	float value	40033	data float	55	-	-	-	✓	Reports how the controller Input #2 (IN-2) is configured 0 = Not Used 1 = Zone Remote Sensor 2 = Outdoor Air Temperature Sensor 3 = Entering Water Temperature Sensor 4 = Mixed Air Temperature Sensor 5 = Relative Humidity Sensor (Probe) 6 = Digital Enable (e.g. Room Occupancy Sensor) 7 = Return Air Temperature Sensor
13	Current Alarm Condition Status	current_alarm_1	AV:17	float value	40003	data float	9	17	nvoCurrentAlarm	SNVT_count_inc(9)	✓	Alarm Status of unit: 0 = No Alarm, 1-10 = UPM Fault Code 20 = Output Overridden via Keypad 30 = Sensor Failure 40 = Leaving Water Temp Alarm 50 = Zone Temp Alarm 60 = Discharge Air Temperature Alarm 70 = Filter Alarm/Compressors 1 & 2 Runtime 80 = Zone Humidity Alarm 90 = High CO2 Level Alarm 100 = Differential Pressure Switch (DPS) Alarm
14	Damper Occupancy Selection	mdpr_occ_sel_1	AV:97	float value	40031	data float	16	-	-	-		Damper Occupancy Selection Setup 0 = Disabled 1 = Occupied (Default) 2 = Unoccupied 3 = Any Occupancy
15	DI5 Mode (Digital Input 5)	di5_mode_1	AV:60	float value	40015	data float	10	-	-	-		Controller Input #5 Configuration Selection 0 = Dirty Filter Switch 1 = Entering Water Temp Sensor - Economizer/Boilerless 2 = Differential Pressure Switch 3 = Secondary Condensate Pan 4 = Fan Status Switch 5 = Valve End Switch 6 = Damper End Switch 7 = Smoke Detector Switch 8 = Pump Status Switch 9 = Mixed Air Temp Sensor - Mixed Air Control 10 = Input Expansion Module (IEM) 11 = Not Used (Default)
16	Discharged Air Temperature Setpoint	dat_stpt_1	AV:30	float value	40017	data float	11	18	nviDatStpt	SNVT_temp_p(105)		Discharged Air Temperature Setpoint Setup in °F Default: 65 °F
17	Effective Cooling Setpoint	eff_clg_stpt_1	AV:5	float value	40039	data float	20	4	nvoEffClgStpt	SNVT_temp_p(105)	✓	Effective Cooling Setpoint (after setpoint adjustment applied) in °F

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18	Effect Disch Air Temp	eff_dat_1	AV:10	float value	40011	data float	18	21	nvoEffDat	SNVT_temp_p(105)	✓	Discharge Air Temperature (DAT) in °F
19	Entering Water Temperature	eff_ewt_1	AV:62	float value	40013	data float	19	22	nvoEffEwt	SNVT_temp_p(105)	✓	Water Side Economizer Effective Entering Water Temperature in °F
20	Effective Heating Setpoint	eff_htg_stpt_1	AV:6	float value	40045	data float	23	5	nvoEffHtgStpt	SNVT_temp_p(105)	✓	Effective Heating Setpoint (after setpoint adjustment applied) in °F
21	Modulating Damper Position	eff_dpr_pos_screen_1	AV:81	float value	40047	data float	24	-	-	-	✓	Effective Outside Air Damper Position in %
22	Zone Humidity	eff_zone_humid_1	AV:20	float value	40021	data float	26	24	nvoEffZoneHumid	SNVT_lev_percent(81)	✓	Effective Zone Humidity in Percent RH (%)
23	Leaving Water Temperature (LWT)	eff_lwt_1	AV:11	float value	40015	data float	21	23	nvoEffLwt	SNVT_temp_p(105)	✓	Effective Leaving Water Temperature Status in °F
24	Mixed Air Temperature (MAT)	eff_mat_1	AV:87	float value	40017	data float	22	-	-	-	✓	Effective Mixed Air Temperature in °F
25	Outdoor Air Temperature (OAT)	eff_oat_1	AV:75	float value	40055	data float	28	6	nvoEffOat	SNVT_temp_p(105)	✓	Effective Outdoor Temperature Status in °F
26	Zone Temperature	eff_zone_temp_1	AV:7	float value	40057	data float	29	-	-	-	✓	Effective Zone Temperature Status in °F
27	Hot Gas Reheat Modulating Valve Status	eff_hgr_mod_vlv1_1	AV:28	float value	40005	data float	14	19	nvoEffHgrModVlv	SNVT_lev_percent(81)	✓	Effective Hot Gas Reheat Modulating Valve Output Status
28	Static Air Fan Speed	eff_sa_fan_speed_1	AV:55	float value	40007	data float	15	20	nvoEffSaFanSpeed	SNVT_lev_percent(81)	✓	Effective Static Air Fan Speed in %
29	Supply Air Duct Static Pressure	eff_sa_sta_press_1	AV:53	float value	40009	data float	17	-	-	-	✓	Effective Static Air Pressure Sensor Status in H2O"
30	Zone CO2 Level	eff_zn_co2_lev_1	AV:25	float value	40065	data float	33	-	-	-	✓	Effective Zone CO2 Levels in PPM
31	Compressor Enabled Stages	enabled_clstages_1	AV:68	float value	40023	data float	27	-	-	-	✓	Compressor Stages Enabled
32	Input Expansion Module Mode	iem_mode_1	AV:50	float value	40085	data float	63	-	-	-		IEM Configuration Setup 0 = Dirty Filter Switch, Fan Status Switch, Valve End Switch (Default) 1 = Smoke Detector Switch, Fan Status Switch, Valve End Switch 2 = Dirty Filter Switch, Fan Status Switch, Differential Pressure Switch 3 = Smoke Detector Switch, Fan Status Switch, Dirty Filter Switch 4 = Dirty Filter Switch, Fan Status Switch, Damper End Switch 5 = Smoke Detector Switch, Fan Status Switch, Secondary Drain Pan 6 = Dirty Filter Switch, Fan Status Switch, Pump Status Switch 7 = None
33	BAS Relative Humidity Enable/Disable	rh_bas_sel_1	AV:51	float value	40109	data float	80	57	nviRhBasSel	SNVT_count_inc(9)		RH Sensor Source Selection 0 = BAS RH Sensor 1 = Hard-Wired RH Sensor (Default)
34	Heating Demand Percentage	htg_pct_1	AV:12	float value	40073	data float	37	-	-	-	✓	Heating Capacity in %
35	Mix Air Temperature Source Status	mat_sel_status_1	AV:84	float value	40025	data float	30	-	-	-	✓	Mixed Air Temperature Sensor Source Status 0 = BAS MAT 1 = Wired MAT
36	Mixed Air Temperature Sensor	mat_sel_1	AV:85	float value	40019	data float	31	-	-	-		Mixed Air Temperature Sensor Source Setup 0 = BAS MAT Sensor 1 = Hard-Wired MAT Sensor (Default)
37	Minimum Damper Position	min_mdpr_pos_1	AV:79	float value	40079	data float	40	-	-	-		Minimum Damper Position Setup Default = 10% Open
38	Analog Output 2 Options Configuration	ao2_cfg_sel_1	AV:83	float value	40089	data float	65	52	nviAo2CfgSel	SNVT_count_inc(9)		Options Configuration - Controller Analog Output #2 (AO-2) 0 = Not Used (Default) 1 = Modulating Hot Gas Reheat Valve Control
39	Analog Output 1 Options Configuration	ao1_cfg_sel_1	AV:82	float value	40087	data float	64	51	nviAo1CfgSel	SNVT_count_inc(9)		Options Configuration - Controller Analog Output #1 (AO-1) 0 = Not Used (Default) 1 = Variable Frequency Drive Signal Control 2 = Mixed Air SCR Preheat Control 3 = SCR Controlled Aux Electric Heat
40	Mixed Air Temperature Setpoint	mat_stpt_1	AV:90	float value	40021	data float	32	-	-	-		Mixed Air Temperature Setpoint Default: 42 °F, Minimum: 40°F, Maximum: 60°F
41	Unit Mode Status	mode_status_1	AV:24	float value	40027	data float	34	25	nvoModeStatus	SNVT_count_inc(9)	✓	Unit Mode of Operation Selection Status 0 = Cooling only 1 = Aux Heat 2 = Heat Pump 3 = Heat Pump + Aux Heat 4 = Heat Pump + Hot Gas Re-Heat 5 = Cooling + Hot Gas Re-Heat
42	Single Reset/Free Cooling Reset Temperature	oat_reset1_1	AV:69	float value	40027	data float	35	-	-	-		Outside Air Temperature (Free Cooling Temperature) Operation in °F or Single Reset Temperature Default: 50 °F
43	Part Cool Reset Temperature	oat_reset2_1	AV:72	float value	40029	data float	36	-	-	-		Outside Air Temperature (Stage 1 Cooling Temperature) Operation in °F Default: 60 °F
44	Full Cool Reset Temperature	oat_reset3_1	AV:74	float value	40033	data float	38	-	-	-		Outside Air Temperature (Stage 2 Cooling Temperature) Operation in °F Default: 75 °F
45	Heating Reset Temperature	oat_reset_ht_1	AV:92	float value	40035	data float	39	-	-	-		Outside Air Temperature Reset Mixed Air (Stage 1 Heating) Operation in °F Default: 40 °F
46	Temperature Reset Mode	oat_rst_mode_1	AV:71	float value	40037	data float	41	-	-	-		Outside Air Temperature Reset Setup 0 = Single 1 = Multiple (Default)
47	Outside Air Temperature Sensor	oat_sel_1	AV:73	float value	40041	data float	42	-	-	-		Outside Air Temperature Sensor Source Setup 1 = BAS OAT Sensor 2 = Hard-Wired OAT Sensor (Default)

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48	Outside Air Temperature Sensor Source Status	oat_sel_sta_1	AV:78	float value	40029	data float	43	-	-	-	✓	Outside Air Temperature Sensor Source Status 0 = BAS OAT Source 1 = Hard-Wired OAT Source
49	Setpoint	occ_clg_stpt_1	AV:4	float value	40103	data float	52	9	nviOccClgStpt	SNVT_temp_p(105)		Occupied Cooling Setpoint Setup in °F Default: 74 °F
50	Setpoint	occ_htg_stpt_1	AV:2	float value	40105	data float	53	10	nviOccHtgStpt	SNVT_temp_p(105)		Occupied Heating Setpoint Setup in °F Default: 70 °F
51	Occupied Zone Humidity Setpoint	occ_zhumid_stpt_1	AV:21	float value	40043	data float	44	26	nviOccZhumidStpt	SNVT_lev_percent(81)		Occupied Humidity Setpoint Setup in % Default: 55%, Minimum: 20%, Maximum: 95%
52	Effect Zone Remote Temperature	eff_remzone_temp_1	AV:9	float value	40019	data float	25	-	-	-	✓	Reports the Effective Temperature from a Zone Remote Temp Sensor after any offsets have been applied
53	Electric Preheat Output	ma_preheat_1	AV:61	float value	40041	data float	85	-	-	-	✓	SCR Electric Preheat Output for Mixed Air Control Option in V
54	BAS Relative Humidity Selection Status	rh_bas_sel_stat_1	AV:57	float value	40045	data float	81	-	-	-	✓	Relative Humidity Sensor Source Status 0 = BAS RH Sensor 1 = Hard-Wired RH Sensor
55	Supply Air Static Pressure High Trip	sa_sta_hi_trip_1	AV:54	float value	40051	data float	46	-	-	-		High Static Air Pressure Alarm Trip Setpoint inches of H2O Default: 2.75 "H2O
56	Temperature Reset Source	rst_temp_source_1	AV:8	float value	40083	data float	62	-	-	-		Temperature Reset Source Selection 0 = Outside Air Temperature Reset (Default) 1 = Mixed Air Temperature Reset
57	Static Press Setpoint	sta_press_stpt_1	AV:52	float value	40053	data float	47	27	nviStaPressStpt	SNVT_press_p(113)		Static Pressure Setpoint in inches of H2O Setup Default: 1.00 "H2O
58	Supply Air Fan Minimum Speed	saf_min_speed_1	AV:59	float value	40059	data float	48	-	-	-		Minimum VFD Fan Speed Setpoint Setup Default: 40%
59	Supply Air Low Differential Trip	sat_lo_trip_1	AV:77	float value	40061	data float	49	-	-	-		Supply Air Temperature Low Trip Differential Setpoint Setup Default: 2.0 °F
60	Supply Air Setpoint Differential	dat_stpt_diff_1	AV:58	float value	40067	data float	51	-	-	-		Supply Air Temperature Setpoint Differential Setup Default: 2.0 °F
61	Supply Air High Differential Trip	sat_hi_trip_1	AV:63	float value	40063	data float	50	-	-	-		Supply Air Temperature High Trip Differential Setpoint Setup Default: 2.0 °F
62	System Status	sys_status_1	AV:16	float value	40031	data float	54	28	nvoSysStatus	SNVT_count_inc(9)	✓	General System Status 0 = Unoccupied 1 = Occupied 2 = Fan Only 3 = Heating 4 = Cooling 5 = Transition to Cool 6 = Transition to Heat 7 = Air Economizer 8 = Unit Locked 9 = Aux Heat 10 = Re-Heat 11 = Manual Re-Heat 12 = Transition to Re-Heat 13 = Free Cooling 14 = Transition to Free Cooling 15 = Water-Side Economizer
63	Unit Mode	unit_mode_1	AV:23	float value	40069	data float	56	29	nviUnitMode	SNVT_count_inc(9)		Unit Mode Setup 0 = Cooling only 2 = Heat Pump (Default)
64	Setpoint	unocc_clg_stpt_1	AV:3	float value	40131	data float	66	13	nviUnoccClgStpt	SNVT_temp_p(105)		Unoccupied Cooling Setpoint Setup in °F Default: 90 °F
65	Setpoint	unocc_htg_stpt_1	AV:1	float value	40133	data float	67	14	nviUnoccHtgStpt	SNVT_temp_p(105)		Unoccupied Heating Setpoint Setup in °F Default: 55 °F
66	Zone CO2 High Trip	zn_co2_hi_trip_1	AV:27	float value	40135	data float	68	-	-	-		Set level of CO2 reported as a High Level Alarm Default: 1200 PPM
67	Zone Humidity Setpoint Differential	zhumid_stpt_diff_1	AV:22	float value	40071	data float	57	-	-	-		Zone Humidity Setpoint Differential Setup in RH % Default: 2%, Minimum: 1%, Maximum: 5%
68	Remote Temp or Return Air Temp Value	zone_rem_sen_val_1	AV:31	float value	40035	data float	58	-	-	-	✓	Reports the Return Air Temperature or Zone Remote Temperature at the Sensor
69	ZS Sensor Combo Selector	zs_sen_combo_sel_1	AV:40	float value	40075	data float	59	-	-	-		ZS Sensor Combination Selection (sensor must be compatible to selection) 0 = Temp Only 1 = RH Only 2 = CO2 Only 3 = Temp + RH 4 = Temp + CO2 5 = RH + CO2 6 = Temp + RH + CO2 (Default) 7 = No ZS Sensor
70	ZS Sensor Enable	zs_sensor_en_1	AV:41	float value	40077	data float	60	-	-	-		Used to configure controller to recognize a connected ZS Sensor(s) 0 = No ZS Sensors 1 = ZS Sensors Enabled (Default)
71	ZS Sensor Setpoint Adjustment Limit	stpt_adj_lim_1	AV:42	float value	40081	data float	61	-	-	-		Used to set the allowable range of setpoint manipulation from a ZS sensor in the space Default: +/- 3 °F

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72	Effective Discharge Air Temperature Setpoint	eff_dat_stpt_1	AV:67	float value	40049	data float	83	-	-	-	✓	Effective Discharged Air Temperature Setpoint in °F after any resets are applied (use this value when the application involves Discharge Air Control with Zone Temp Reset)
73	AO-1 mode status	ao1_mode_status_1	AV:101	float value	40037	data float	69	-	-	-	✓	Reports the option for which the Controller Analog Output #1 (AO-1) is configured 0 = Not Used 1 = Variable Frequency Drive Signal Control 2 = Mixed Air Preheat using SCR <i>(for Discharge Air Control applications only)</i> 3 = SCR Controlled Auxiliary Electric Heat
74	AO-2 mode status	ao2_mode_status_1	AV:102	float value	40039	data float	70	-	-	-	✓	Reports the option for which the Controller Analog Output #2 (AO-2) is configured 0 = Not Used 1 = Modulating Hot Gas Reheat Valve Control
75	CO2 BAS Enable/Disable	co2_bas_ena_1	AV:106	float value	40091	data float	71	53	nviCo2BasEna	SNVT_count_inc(9)		CO2 Sensor Source Selection 0 = BAS CO2 Sensor 1 = Hard-Wired CO2 Sensor (Default)
76	Damper Option Selection	dmp_opt_sel_1	AV:107	float value	40093	data float	72	-	-	-		Used to configure how on/off damper is enabled when not enabled by CO2 0 = Damper Opens when Fan Runs (Default) 1 = Damper Opens when Occupied 2 = Damper Opens for Free Cooling (Air Economizer)
77	Analog Output 3 Options Configuration	ao3_cfg_sel_1	AV:108	float value	40111	data float	73	60	nviAo3CfgSel	SNVT_count_inc(9)		Options Configuration - Controller Analog Output #3 (AO-3) 0 = Not Used (Default) 1 = Modulating Outdoor Air Damper Control
78	IN-1 Mode Status	ui1_mode_status_1	AV:109	float value	40043	data float	74	-	-	-	✓	Reports how the controller Input #1 (IN-1) is configured 0 = Not Used 1 = Static Pressure Sensor 2 = Digital Input Enable (e.g. Room Occupancy Sensor) 3 = RH Probe Sensor 4 = CO2 Sensor
79	Input 1 Configuration	in1_cfg_sel_1	AV:110	float value	40095	data float	75	54	nvin1CfgSel	SNVT_count_inc(9)		Controller Input #1 (IN-1) Configuration Setup 0 = Not Used (Default) 1 = Static Pressure Sensor 2 = Digital Input Enable (e.g. Room Occupancy Sensor) 3 = RH Probe Sensor 4 = CO2 Sensor
80	Input 2 Configuration	in2_cfg_sel_1	AV:111	float value	40097	data float	76	55	nvin2CfgSel	SNVT_count_inc(9)		Controller Input #2 (IN-2) Configuration Setup 0 = Not Used (Default) 1 = Zone Remote Sensor 2 = Outdoor Air Temperature Sensor 3 = Entering Water Temperature Sensor 4 = Mixed Air Temperature Sensor 5 = Relative Humidity Sensor (Probe) 6 = Digital Enable (e.g. Room Occupancy Sensor) 7 = Return Air Temperature Sensor
81	Output 4 Options Configuration	bo4_cfg_sel_1	AV:112	float value	40099	data float	77	-	-	-		Options Configuration - Controller Binary Output #4 (BO-4); used only when unit is configured for 1 compressor 1 stage operation (see AV:114, AV:14) 0 = Not Used (Default) 1 = Hot Gas Reheat for Humidity Control 2 = Auxiliary Electric Heat Control 3 = Fresh Air Damper Control
82	Output 5 Options Configuration	bo5_cfg_sel_1	AV:113	float value	40101	data float	78	56	nviBo5CfgSel	SNVT_count_inc(9)		Options Configuration - Controller Binary Output #5 (BO-5) 0 = Not Used (Default) 1 = Hot Gas Reheat for Humidity Control 2 = Auxiliary Electric Heat Control 3 = Fresh Air Damper Control 4 = Condenser Water Valve (Loop Valve) Control 5 = Circulation Water Pump (Loop Pump) Control 6 = Water-Side Economizer Control 7 = Boilerless Electric Heat Control
83	Override Time Remaining	tlo_rem_1	AV:115	float value	40047	data float	82	58	nvoTloRem	SNVT_count_inc(9)	✓	Reports time remaining since ZS Plus/Pro sensor in the space was placed in manual override mode
84	Effective ZS Sensor Temperature	zt_reset_1	AV:116	float value	40051	data float	84	-	-	-	✓	Effective Zone Temperature reading from ZS sensor after any offsets have been applied
85	OAT high limit for Air Econ	oat_hi_lim_aecon_1	AV:100	float value	40113	data float	86	-	-	-		Air Economizer Option: range setting for Outside Air Temperature (High Limit) in °F Default: 60 °F
86	OAT low limit for Air Econ	oat_lo_lim_aecon_1	AV:117	float value	40115	data float	87	-	-	-		Air Economizer Option: range setting for Outside Air Temperature (Low Limit) in °F Default: 50 °F
87	Outdoor RH high limit for Air Econ	rh_hi_lim_aecon_1	AV:118	float value	40117	data float	88	-	-	-		Air Economizer Option: range setting for Outside Air Relative Humidity (High Limit) in % Default: 50 %

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88	Outdoor RH low limit for Air Econ	rh_lo_lim_aecon_1	AV:119	float value	40119	data float	89	-	-	-		Air Economizer Option: range setting for Outside Air Relative Humidity (Low Limit) in % Default: 40 %
89	Compressor Status	comp_state_1	AV:120	float value	40053	data float	90	-	-	-	✓	Reports compressor state for heat pump units: 0 = Normal/Off 1 = Compressor Locked 2 = Compressor Overridden "ON" 3 = Compressor Shutdown/Alarm
90	SCR Electric Heat Output	mat_pid_1	AV:121	float value	40055	data float	91	-	-	-	✓	SCR controlled Electric Heat Output in %
91	Alarm Status	alm_status_1	BV:24	discrete in	10002	binary in	2	30	nvoAlmStatus	SNVT_switch(95)	✓	Network Status indicating alarm condition in unit (see "Current Alarm" for more information) 0 = System Normal 1 = System in Alarm
92	Aux Heat Output Cmd	aux_htg_cmd_1	BV:20	discrete in	10003	binary in	3	31	nvoAuxHtgCmd	SNVT_switch(95)	✓	Auxiliary Heat Output Status 0 = Aux Heat Off 1 = Aux Heat On
93	UPM Safety - Brownout Alarm	brn_2st_1	BV:10	discrete in	10004	binary in	4	32	nvoBrn2st	SNVT_switch(95)	✓	Brown Out Alarm Status 0 = Normal 1 = BRN Alarm Enabled
94	Occupancy Command (BAS)	occupancy_cmd_1	BV:1	discrete out	1	binary out	1	12	nviOccupancyCmd	SNVT_switch(95)		BAS Occupancy Command 0 = Unoccupied (Default) 1 = Occupied (Enables Unit Operation)
95	Compressor 1 Runtime	comp1_rntm_1	BV:35	discrete in	10006	binary in	6	-	-	-	✓	Compressor 1 Runtime Alarm 0 = Normal 1 = Timer Has Expired (Default: >8760 Hours)
96	Compressor 2 Runtime	comp2_rntm_1	BV:36	discrete in	10007	binary in	7	-	-	-	✓	Compressor 2 Runtime Alarm Status 0 = Normal 1 = Timer Has Expired (Default: >8760 Hours)
97	Compressor 1 Runtime Reset	cmp1_rntm_rst_1	BV:13	discrete out	2	binary out	10	35	nviCmp1RntmRst	SNVT_switch(95)		Compressor 1 Runtime Reset. Momentary On/Off required. 0 = Reset Off (Default) 1 = Reset On
98	Compressor 2 Runtime Reset	cmp2_rntm_rst_1	BV:14	discrete out	3	binary out	11	36	nviCmp2RntmRst	SNVT_switch(95)		Compressor 2 Runtime Reset. Momentary On/Off required. 0 = Reset Off (Default) 1 = Reset On
99	Comp Stage1 Output Cmd	cmp_stg1_cmd_1	BV:11	discrete in	10008	binary in	8	33	nvoCmpStg1Cmd	SNVT_switch(95)	✓	Compressor Stage 1 Output Status 0 = Compressor 1 Off 1 = Compressor 1 On
100	Comp Stage2 Output Cmd	cmp_stg2_cmd_1	BV:12	discrete in	10009	binary in	9	34	nvoCmpStg2Cmd	SNVT_switch(95)	✓	Compressor Stage 2 Output Status 0 = Compressor 2 Off 1 = Compressor 2 On
101	UPM Safety - High Condensate Alarm	con_2st_1	BV:9	discrete in	10010	binary in	12	37	nvoCon2st	SNVT_switch(95)	✓	Condensate Drain Alarm 0 = Normal 1 = Alarm Active
102	Secondary Condensate Pump Alarm	conpump_1	BV:50	discrete in	10012	binary in	14	-	-	-	✓	Secondary Condensate Pump Alarm 0 = Normal 1 = Alarm Active
103	Continuous Fan	cont_fan_1	BV:18	discrete out	5	binary out	15	38	nviContFan	SNVT_switch(95)		Configures Fan Operation for Continuous or Auto 0 = Cycle Fan with Compressor Operation (Auto) 1 = Continuous Fan Operation when Occupied or in NSB (Default)
104	Economizer Cooling Command	clg_econ_1	BV:92	discrete in	10015	binary in	16	-	-	-	✓	Cooling Economizer Status 0 = On 1 = Off
105	High Cooling Supply Air Temperature in DAC	csat_hi_1	BV:86	discrete in	10016	binary in	17	-	-	-	✓	High Cooling Supply Air Temperature during Discharge Air Control Alarm 0 = Normal 1 = Alarm Active
106	Condenser Water Valve Output	cwv_cmd_1	BV:79	discrete in	10017	binary in	18	-	-	-	✓	Condenser Water Valve Status 0 = Closed 1 = Open
107	Discharge Air Temperature Sensor	da_sen_1	BV:31	discrete in	10018	binary in	19	-	-	-	✓	Discharge Air Temperature Sensor Alarm 0 = Sensor Normal 1 = Sensor Failure Alarm
108	Damper End Switch	des_status_1	BV:93	discrete in	10019	binary in	20	-	-	-	✓	Damper End Switch Status 0 = Damper Closed 1 = Damper Open
109	Damper Command	damper_cmd_1	BV:49	discrete in	10020	binary in	21	39	nvoDamperCmd	SNVT_switch(95)	✓	Damper Position Output Status 0 = Closed 1 = Open
110	High Discharge Air Temperature	dat_hi_1	BV:29	discrete in	10021	binary in	22	-	-	-	✓	Discharge Air Temperature Sensor Alarm (High Threshold - Cooling) 0 = Normal 1 = Alarm (Default: >70 °F)
111	Discharge Air Temperature Alarm	dat_lo_1	BV:30	discrete in	10022	binary in	23	-	-	-	✓	Discharge Air Temperature Sensor Alarm (Low Threshold - Heating) 0 = Normal 1 = Low DAT Alarm (Default: <75 °F)

#	Point Description Name	BACnet		MODBUS		N2		LON			Read Only	Description
		Name	Type ID	Object Type	Register	Type	ID	SNVT #	Name	SNVT		
112	Digital Override Lock Alarm	do_lock_1	BV:37	discrete in	10023	binary in	24	-	-	-	✓	Digital Override Lock Alarm 0 = Normal 1 = Digital Override Enabled Alarm
113	Differential Pressure Switch (DPS) Alarm	dps_alarm_1	BV:77	discrete in	10024	binary in	25	-	-	-	✓	Differential Pressure Switch Alarm 0 = Normal 1 = Alarm
114	Hot Gas ReHeat Valve Status	eff_hgrv_cmd_1	BV:44	discrete in	10025	binary in	26	40	nvoEffHgrvCmd	SNVT_switch(95)	✓	Hot Gas ReHeat Valve Status (Start/Stop) 0 = Valve Off 1 = Valve On
115	Entering Water Temperature Sensor Alarm	ewt_sen_1	BV:80	discrete in	10026	binary in	27	-	-	-	✓	Entering Water Temperature Sensor Alarm 0 = Normal 1 = Sensor Failure Alarm (Check Hardware)
116	Fan Running Status	fan_status_1	BV:66	discrete in	10028	binary in	29	41	nvoFanStatus	SNVT_switch(95)	✓	Fan Running Status 0 = Off 1 = On - Fan Running
117	Fan Hand Mode Alarm	saf_hand_1	BV:83	discrete in	10027	binary in	28	-	-	-	✓	Fan Hand Mode Alarm Fan is running but not being commanded by controller.
118	Fan Output Cmd	fan_cmd_1	BV:17	discrete in	10011	binary in	11	7	nvoFanCmd	SNVT_switch(95)	✓	Fan Output Status (O) 0 = Fan Output Off 1 = Fan Output On
119	Filter Service Alarm	filter_1	BV:40	discrete in	10029	binary in	30	-	-	-	✓	Filter Alarm 0 = Off 1 = Service Filter Alarm
120	UPM Safety - Condenser Coil Freeze Alarm	frz_2st_1	BV:8	discrete in	10030	binary in	31	42	nvoFrz2st	SNVT_switch(95)	✓	UPM Freeze Sensor Alarm (Condenser Coil) 0 = Off 1 = Freeze Condition Detected
121	UPM Safety - Evaporator Coil Freeze Alarm	frz_evap_2st_1	BV:90	discrete in	10031	binary in	32	43	nvoFrzEvap2st	SNVT_switch(95)	✓	UPM Freeze Sensor Alarm (Evaporator Coil) 0 = Off 1 = Freeze Condition Detected
122	Boilerless Status	htg_econ_1	BV:91	discrete in	10034	binary in	35	-	-	-	✓	Boilerless Control Status 0 = Off 1 = On (Electric Heating)
123	UPM Safety - High Pressure Alarm	hp1_2st_1	BV:5	discrete in	10035	binary in	36	44	nvoHp12st	SNVT_switch(95)	✓	UPM High Pressure Alarm Status 0 = HP normal 1 = High Pressure Alarm
124	Low Heating Supply Air Temperature in DAC	hsat_lo_1	BV:149	discrete in	10037	binary in	38	-	-	-	✓	Heating Supply Air Temp Alarm (Low) 0 = Normal 1 = Active (Default: <80 °F)
125	Inputs Override Status	input_lock_1	BV:38	discrete in	10038	binary in	39	-	-	-	✓	Software Input Lock 0 = Normal 1 = Software Lock Enabled
126	BAS Loop Enable/Disable	loop_enabled_1	BV:23	discrete out	6	binary out	40	45	nviLoopEnabled	SNVT_switch(95)		Loop Status 0 = Disable Heat/Cool 1 = Allow Heat/Cool Operation (Default)
127	UPM Safety - Low Pressure Alarm	lp1_2st_1	BV:4	discrete in	10039	binary in	41	46	nvoLp12st	SNVT_switch(95)	✓	UPM Low Pressure Alarm Status 0 = LP Normal 1 = Low Pressure Alarm
128	High Leaving Water Temperature	lvg_hi_1	BV:32	discrete in	10041	binary in	43	-	-	-	✓	High Leaving Water Temperature Alarm (LWT) 0 = Normal 1 = Alarm (Default: >135 °F)
129	Low Leaving Water Temperature	lvg_lo_1	BV:33	discrete in	10042	binary in	44	-	-	-	✓	Low Leaving Water Temperature (LWT) 0 = Normal 1 = Alarm (Default: <40 °F)
130	Leaving Water Temperature Sensor Failure	lvg_sen_1	BV:34	discrete in	10043	binary in	45	-	-	-	✓	Leaving Water Temperature Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Hardware Configuration)
131	Low Mixed Air Temperature	mat_low_1	BV:89	discrete in	10044	binary in	46	-	-	-	✓	Mixed Air Low Temperature Alarm (Low) 0 = Normal 1 = Alarm (Default: <38 °F)
132	Mix Air Temperature Sensor Failure	mat_sen_1	BV:88	discrete in	10045	binary in	47	-	-	-	✓	Mixed Air Low Temperature Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Hardware Configuration)
133	Night Setback (NSB) Status	nsb_status_1	BV:22	discrete in	10013	binary in	13	8	nvoNsbStatus	SNVT_switch(95)	✓	Night Setback Status 0 = Night Setback disabled 1 = Night Setback enabled
134	Outside Air Temperature Sensor Failure	oat_sen_1	BV:87	discrete in	10046	binary in	48	-	-	-	✓	Outside Air Temperature Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Hardware Configuration)
135	Occupancy Status	occ_status_1	BV:21	discrete in	10014	binary in	14	11	nvoOccStatus	SNVT_switch(95)	✓	Occupancy Status 0 = Unoccupied 1 = Occupied
136	Reset Fan Runtime	fan_rntm_rst_1	BV:19	discrete out	7	binary out	52	47	nviFanRntmRst	SNVT_switch(95)		Reset Fan Runtime. Momentary On/Off required for reset 0 = Reset Off (Default) 1 = Reset On

#	Point Description Name	BACnet		MODBUS		N2		LON			Read Only	Description
		Name	Type ID	Object Type	Register	Type	ID	SNVT #	Name	SNVT		
137	Reversing Valve Output Status	rev_vlv_cmd_1	BV:15	discrete in	10050	binary in	54	48	nvoRevVlvCmd	SNVT_switch(95)	✓	Reversing Valve Output Status 0 = Reversing Valve De-energized 1 = Reversing Valve Energized
138	Static Air Pressure Sensor Hardware Alarm	sas_sen_1	BV:65	discrete in	10051	binary in	55	-	-	-	✓	Static Air Pressure Sensor Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Static Pressure Hardware Configuration)
139	Supply Air Fan Switch Failure	saf_switch_fail_1	BV:82	discrete in	10052	binary in	56	-	-	-	✓	Supply Air Fan Status Alarm 0 = Normal 1 = Alarm (Check Fan Hardware)
140	High Static Pressure Alarm	sas_hi_1	BV:64	discrete in	10053	binary in	57	-	-	-	✓	Static Air Pressure Alarm (High) 0 = Normal 1 = High Static Pressure (Default: > 2.75" H2O)
141	Smoke Event Alarm Notification	smoke_1	BV:81	discrete in	10054	binary in	58	49	nvoSmoke	SNVT_switch(95)	✓	Smoke Detector Alarm 0 = Normal 1 = Alarm
142	Smoke Event Status	smoke_status_1	BV:70	discrete in	10055	binary in	59	-	-	-	✓	Smoke Alarm Status 0 = Normal 1 = Smoke Detector Active
143	UPM Input Alarm	upm_input_1	BV:39	discrete in	10064	binary in	60	-	-	-	✓	UPM Input Failure Alarm 0 = UPM Connected 1 = UPM Connection Failure
144	UPM Reset	upm_rst_1	BV:25	discrete out	9	binary out	61	50	nviUpmRst	SNVT_switch(95)	✓	UPM Reset. Momentary On/Off required 0 = Reset Off (Default) 1 = Reset On
145	Valve End Switch Status	ves_status_1	BV:68	discrete in	10065	binary in	62	-	-	-	✓	Valve End Switch Status 0 = Off 1 = Valve End Switch Detected
146	Valve Switch Hand	ves_hand_1	BV:150	discrete in	10066	binary in	63	-	-	-	✓	Valve End Switch Hand Mode Condenser Water Valve engaged but not being commanded by controller.
147	Valve End Switch Alarm	ves_fail_1	BV:151	discrete in	10067	binary in	64	-	-	-	✓	Valve End Switch Fail Alarm 0 = Normal 1 = Active
148	High Humidity Alarm	zhumid_hi_1	BV:45	discrete in	10068	binary in	65	-	-	-	✓	Zone Humidity Alarm (High) 0 = Normal 1 = High Humidity (Default: 10% above Setpoint)
149	Low Humidity Alarm	zhumid_lo_1	BV:46	discrete in	10069	binary in	66	-	-	-	✓	Zone Humidity Alarm (Low) 0 = Normal 1 = Low Humidity (Default: 30% below Setpoint)
150	Humidity Sensor Hardware Failure Alarm	zhumid_sen_1	BV:47	discrete in	10070	binary in	67	-	-	-	✓	Zone Humidity Sensor Alarm 0 = Normal 1 = Sensor Failure (Check RH Sensor Hardware Configuration)
151	CO2 Hardware Failure Alarm	zn_co2_fail_1	BV:51	discrete in	10056	binary in	56	-	-	-	✓	CO2 Zone Sensor Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check CO2 Hardware Configuration)
152	High CO2 Alarm	zn_co2_hi_1	BV:48	discrete in	10057	binary in	57	-	-	-	✓	CO2 Zone Sensor Alarm (High) 0 = Normal 1 = High CO2 Level (Default: >1200 PPM)
153	ZS Zone Sensor Hardware Failure Alarm	zone_sen_1	BV:28	discrete in	10058	binary in	58	-	-	-	✓	Zone Sensor Failure Alarm (High) 0 = Normal 1 = Sensor Failure (Check: ZS Sensor Hardware)
154	Remote Temperature Sensor Hardware Failure Alarm	zrem_sen_1	BV:43	discrete in	10059	binary in	59	-	-	-	✓	Remote Temperature Zone Sensor Failure Alarm 0 = Normal 1 = Sensor Failure (Check Remote Sensor Hardware)
155	High Remote Temperature Alarm	zrem_hi_1	BV:41	discrete in	10060	binary in	60	-	-	-	✓	Remote Sensor Zone Temperature Alarm (High) 0 = Normal 1 = High Zone Temperature (Default: 10 °F Above Setpoint)
156	Low Remote Temperature Alarm	zrem_lo_1	BV:42	discrete in	10061	binary in	61	-	-	-	✓	Remote Sensor Zone Temperature Alarm (Low) 0 = Normal 1 = Low Zone Temperature (Default: 10 °F Below Setpoint)
157	High ZS Zone Sensor Temperature Alarm	ztmp_hi_1	BV:26	discrete in	10062	binary in	62	-	-	-	✓	Zone Temperature Alarm (High) 0 = Normal 1 = High Zone Temperature (Default: 10 °F Above Setpoint)
158	Low ZS Zone Sensor Temperature Alarm	ztmp_lo_1	BV:27	discrete in	10063	binary in	63	-	-	-	✓	Zone Temperature Alarm (Low) 0 = Normal 1 = Low Zone Temperature (Default: 10 °F Below Setpoint)
159	Duplicate Input 1&2 Alarm	dup_in12_1	BV:2	discrete in	10001	binary in	1	-	-	-	✓	Duplicated Sensor Configuration for IN-1 and IN-2 Alarm 0 = Normal 1 = Alarm (Check input configuration for conflicts)
160	Circulation Pump Output Command	pump_cmd_1	BV:3	discrete in	10005	binary in	5	-	-	-	✓	Loop Water Pump Status 0 = Pump Running 1 = Pump Off
161	Circulation Pump Switch Failure Alarm	pss_fail_1	BV:56	discrete in	10047	binary in	49	-	-	-	✓	Pump Status Switch Fail Alarm 0 = Normal 1 = Active

#	Point Description Name	BACnet		MODBUS		N2		LON			Read Only	Description
		Name	Type ID	Object Type	Register	Type	ID	SNVT #	Name	SNVT		
162	Pump Switch Status	pump_status_1	BV:57	discrete in	10048	binary in	50	-	-	-	✓	Pump Switch Status 0 = Off 1 = Pump Switch Detected
163	Circulation Pump Switch In Hand Alarm	pss_hand_1	BV:58	discrete in	10049	binary in	51	-	-	-	✓	Pump Status Switch Hand Mode Pump running but not being commanded by controller.
164	Enable/Disable Fan Status Switch in IEM	allow_fan_alm_1	BV:67	discrete out	11	binary out	71	-	-	-		Must be set to enable Fan Status Switch feature when using IEM in IN-5 0 = FSS on IEM disabled (Default) 1 = FSS on IEM Enabled