#	Point Description Name	BACnet		MODBUS		N2		LON			Read Only	Description
		Name	Type ID	Object Type	Register	Type	ID	SNVT #	Name	SNVT		
1	Compressor Stages	cmp_stgs_1	AV:15	float value	40005	data float	7	6	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
2	Comp1 State	cmp1_state_1	AV:13	float value	40001	data float	5	4	nvoCmp1State	SNVT_count_inc(9)	✓	Reports the State of the Compressor 1 = Lead 1 = Lag 3 = Fault
3	Comp2 State	cmp2_state_1	AV:14	float value	40003	data float	6	5	nvoCmp2State	SNVT_count_inc(9)	✓	Reports the State of the Compressor 2 1 = Lead 1 = Lag 3 = Fault
4	Control Mode	ctrl_mode_1	AV:17	float value	40009	data float	8	7	nviCtrlMode	SNVT_count_inc(9)		Mode of Control 0 = Off 1 = Heat 2 = Cool 3 = Auto Changeover **4 = Digital Input (Off = Heat/On = Cool) (Default)**
5	Control Source	ctrl_source_1	AV:16	float value	40011	data float	9	57	nviCtrlSource	SNVT_count_inc(9)		Control Source for Occupancy Setup 0 = Digital Input Enable (e.g. Room Occupancy Sensor) **1 = Keypad Schedule (Default)** 2 = BAS Occupancy Command (Default) *3 = Factory Use Only* 4 = Manual On-Continuous
6	Current Alarm	current_alm_1	AV:19	float value	40007	data float	10	8	nvoCurrentAlm	SNVT_count_inc(9)	✓	Alarm Status of unit: 0 = No Alarm, 1-8 = UPM Fault Code 20 = Output Overridden via Keypad 30 = Sensor Failure 40 = Leaving Water Temp Alarm 70 = Pump Runtime/Compressors 1 & 2 Runtime 110 = Load Hi/Low Alarm
7	Effect Cooling Setpoint	eff_clg_stpt_1	AV:11	float value	40011	data float	12	10	nvoEffClgStpt	SNVT_count_inc(9)	✓	Effective Cooling Setpoint (after setpoint adjustment applied) in °F
8	Effect Heating Setpoint	eff_htg_stpt_1	AV:12	float value	40013	data float	13	11	nvoEffHtgStpt	SNVT_count_inc(9)	✓	Effective Heating Setpoint (after setpoint adjustment applied) in °F
9	Effect Load Temp	eff_load_tmp_1	AV:10	float value	40017	data float	15	13	nvoEffLoadTmp	SNVT_count_inc(9)	✓	Effective Load Temperature
10	Effect Leaving Wtr Temp	eff_lvg_wtr_tmp_1	AV:9	float value	40015	data float	14	12	nvoEffLvgWtrTmp	SNVT_count_inc(9)	✓	Effective Leaving Water Temperature Status in °F
11	Effect Changeover Temp	eff_xovr_tmp_1	AV:8	float value	40009	data float	11	9	nvoEffXovrTmp	SNVT_count_inc(9)	✓	Effective Changeover Temperature
12	Fan Mode Status	fan_mode_status_1	AV:51	float value	40019	data float	16	14	nvoFanModeStatus	SNVT_count_inc(9)	✓	Reports the Fan Mode Status set for the unit 0 = Start/Stop Fan Only 1 = Start/Stop Fan plus VFD
13	Occ Clg Setpoint in Fahrenheit	occ_clg_stpt_1	AV:4	float value	40013	data float	17	15	nviOccClgStpt	SNVT_temp_p(105)		Occupied Cooling Setpoint Setup in °F **Default: 54 °F**
14	Occ Clg Setpoint in Celsius	occ_clg_stpt_c_1	AV:504	float value	40015	data float	18	16	nviOccClgStptC	SNVT_temp_p(105)		Occupied Cooling Setpoint Setup in °C **Default: 12°C**
15	Occ Htg Setpoint in Fahrenheit	occ_htg_stpt_1	AV:2	float value	40017	data float	19	17	nviOccHtgStpt	SNVT_temp_p(105)		Occupied Heating Setpoint Setup in °F **Default: 105 °F**
16	Occ Htg Setpoint in Celsius	occ_htg_stpt_c_1	AV:502	float value	40019	data float	20	18	nviOccHtgStptC	SNVT_temp_p(105)		Occupied Heating Setpoint Setup in °C **Default: 40°C**
17	Setpoint Differential in Fahrenheit	stpt_diff_1	AV:5	float value	40023	data float	22	20	nviStptDiff	SNVT_count_inc(9)		Setpoint Differential in Fahrenheit **Default: 1**
18	Setpoint Differential in Celsius	stpt_diff_c_1	AV:505	float value	40021	data float	21	19	nviStptDiffC	SNVT_count_inc(9)		Setpoint Differential in Celsius **Default: 2**
19	System Mode	sys_mode_1	AV:18	float value	40021	data float	23	59	nvoSysMode	SNVT_count_inc(9)	✓	Reports the System Mode 1 = Neutral 2 = Heating 3 = Cooling
20	Temp Unit Selection	temp_unit_mode_1	AV:550	float value	40025	data float	24	21	nviTempUnitMode	SNVT_count_inc(9)		Temperature Unit Selection **0 = Fahrenheit (Default)** 1 = Celsius
21	Unocc Clg Setpoint in Fahrenheit	unocc_clg_stpt_1	AV:3	float value	40027	data float	25	22	nviUnoccClgStpt	SNVT_temp_p(105)		Unoccupied Cooling Setpoint Setup in °F **Default: 74 °F**
22	Unocc Clg Setpoint in Celsius	unocc_clg_stpt_c_1	AV:503	float value	40029	data float	26	23	nviUnoccClgStptC	SNVT_temp_p(105)		Unoccupied Cooling Setpoint Setup in °C **Default: 24 °C**
23	Unocc Htg Setpoint in Fahrenheit	unocc_htg_stpt_1	AV:1	float value	40031	data float	27	24	nviUnoccHtgStpt	SNVT_temp_p(105)		Unoccupied Heating Setpoint Setup in °F **Default: 85 °F**

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		Name	Type ID	Object Type	Register	Type	ID	SNVT #	Name	SNVT		
24	Unocc Htg Setpoint in Celsius	unocc_htg_stpt_c_1	AV:501	float value	40033	data float	28	25	nviUnoccHtgStptC	SNVT_temp_p(105)		Unoccupied Heating Setpoint Setup in °C **Default: 30 °C**
25	Changeover Deadband in Fahrenh	xovr_dbnd_1	AV:7	float value	40001	data float	1	0	nviXovrDbnd	SNVT_temp_p(105)		Changeover Deadband in °F **Default: 3**
26	Changeover Deadband in Celsius	xovr_dbnd_c_1	AV:507	float value	40003	data float	2	1	nviXovrDbndC	SNVT_temp_p(105)		Changeover Deadband in °C **Default: 2**
27	Changeover Setpoint in Fahrenhei	xovr_stpt_1	AV:6	float value	40005	data float	3	2	nviXovrStpt	SNVT_temp_p(105)		Changeover Setpoint in °F **Default: 65 ºF**
28	Changeover Setpoint in Celsius	xovr_stpt_c_1	AV:506	float value	40007	data float	4	3	nviXovrStptC	SNVT_temp_p(105)		Changeover Setpoint in °C **Default: 18 °C**
29	Alarm Status (Alarm or Normal)	alrm_status_1	BV:20	discrete in	10001	binary in	1	26	nvoAlrmStatus	SNVT_switch(95)	✓	Network Status indicating alarm condition in unit (see "Current Alarm" for more information) 0 = System Normal 1 = System in Alarm
30	UPM Safety - Brownout Alarm	brn_2st_1	BV:8	discrete in	10002	binary in	2	27	nvoBrn2st	SNVT_switch(95)	✓	Brown Out Alarm Status 0 = Normal 1 = BRN Alarm Enabled
31	Comp1 Output Cmd	cmp1_cmd_1	BV:9	discrete in	10005	binary in	6	30	nvoCmp1Cmd	SNVT_switch(95)	✓	Compresseor 1 Output Command
32	Compressor 1 Runtime Reset	cmp1_rntm_rst_1	BV:11	discrete out	2	binary in	7	31	nviCmp1RntmRst	SNVT_switch(95)		Compressor 1 Runtime Reset. Momentary On/Off required. **0 = Reset Off (Default)** 1 = Reset On
33	Comp2 Output Cmd	cmp2_cmd_1	BV:10	discrete in	10006	binary in	8	32	nvoCmp2Cmd	SNVT_switch(95)	✓	Compresseor 2 Output Command
34	Compressor 2 Runtime Reset	cmp2_rntm_rst_1	BV:12	discrete out	3	binary in	9	33	nviCmp2RntmRst	SNVT_switch(95)		Compressor 2 Runtime Reset. Momentary On/Off required. **0 = Reset Off (Default)** 1 = Reset On
35	Continous Pump(s)	cont_pump_1	BV:16	discrete out	4	binary in	10	34	nviContPump	SNVT_switch(95)		Continuous Pump Selection **0 = Cycle With Compressors (Default)** 1 = Continuous
36	Digital Override Lock Alarm	do_lock_1	BV:32	discrete in	10007	binary in	11	35	nvoDoLock	SNVT_switch(95)	✓	Digital Override Lock Alarm 0 = Normal 1 = Digital Override Enabled Alarm
37	Compressor 1 Stage Runtime Exp	dx1_rntm_1	BV:33	discrete in	10003	binary in	4	28	nvoDx1Rntm	SNVT_switch(95)	✓	Compresseor 1 Stage Runtime Expired
38	Compressor 2 Stage Runtime Exp	dx2_rntm_1	BV:34	discrete in	10004	binary in	5	29	nvoDx2Rntm	SNVT_switch(95)	✓	Compresseor 2 Stage Runtime Expired
39	UPM Safety - Condenser Coil Free	frz_2st_1	BV:6	discrete in	10008	binary in	12	36	nvoFrz2st	SNVT_switch(95)	✓	UPM Freeze Sensor Alarm (Condenser Coil) 0 = Off 1 = Freeze Condition Detected
40	UPM Safety - High Pressure Alarm	hp1_2st_1	BV:3	discrete in	10009	binary in	13	37	nvoHp12st	SNVT_switch(95)	✓	UPM High Pressure Alarm Status 0 = HP normal 1 = High Pressure Alarm
41	UPM Safety - High Pressure Alarm	hp2_2st_1	BV:5	discrete in	10010	binary in	14	38	nvoHp22st	SNVT_switch(95)	✓	UPM High Pressure Alarm Status 2 0 = HP normal 1 = High Pressure Alarm
42	Inputs Override Status	input_lock_1	BV:22	discrete in	10011	binary in	15	39	nvoInputLock	SNVT_switch(95)	✓	Software Input Lock 0 = Normal 1 = Software Lock Enabled
43	High Load Temp Alarm	load_hi_1	BV:23	discrete in	10012	binary in	16	40	nvoLoadHi	SNVT_switch(95)	✓	High Load Temperature
44	Low Load Temp Alarm	load_lo_1	BV:24	discrete in	10013	binary in	17	41	nvoLoadLo	SNVT_switch(95)	✓	Low Load Temperature
45	Load Sensor Failure Alarm	load_sen_1	BV:25	discrete in	10014	binary in	18	42	nvoLoadSen	SNVT_switch(95)	✓	Load Sensor Failure
46	UPM Safety - Low Pressure Alarm	lp1_2st_1	BV:2	discrete in	10015	binary in	19	43	nvoLp12st	SNVT_switch(95)	✓	UPM Low Pressure Alarm Status 0 = LP Normal 1 = Low Pressure Alarm
47	UPM Safety - Low Pressure Alarm	lp2_2st_1	BV:4	discrete in	10016	binary in	20	44	nvoLp22st	SNVT_switch(95)	✓	UPM Low Pressure Alarm Status 2 0 = LP Normal 1 = Low Pressure Alarm
48	High Leaving Water Temperature	lvg_hi_1	BV:26	discrete in	10017	binary in	21	45	nvoLvgHi	SNVT_switch(95)	✓	High Leaving Water Temperature Alarm (LWT) 0 = Normal 1 = Alarm **(Default: >135 ºF)**
49	Low Leaving Water Temperature	lvg_lo_1	BV:27	discrete in	10018	binary in	22	46	nvoLvgLo	SNVT_switch(95)	✓	Low Leaving Water Temperature (LWT) 0 = Normal 1 = Alarm **(Default: <40 ºF)**

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		Name	Type ID	Object Type	Register	Type	ID	SNVT #	Name	SNVT		
50	Leaving Water Temperature Sensor Failure	lvg_sen_1	BV:28	discrete in	10019	binary in	23	47	nvoLvgSen	SNVT_switch(95)	✓	Leaving Water Temperature Alarm (Sensor) 0 = Normal 1 = Sensor Failure **(Check Sensor Hardware Configuration)**
51	NSB Status	nsb_status_1	BV:19	discrete in	10020	binary in	24	58	nvoNsbStatus	SNVT_switch(95)	✓	Night Setback Status 0 = Night Setback disabled 1 = Night Setback enabled
52	Occupancy Status	occ_status_1	BV:18	discrete in	10021	binary in	25	56	nvoOccStatus	SNVT_switch(95)	✓	Occupancy Status 0 = Unoccupied 1 = Occupied
53	Occupancy Command (BAS)	occupancy_cmd_1	BV:1	discrete out	1	binary out	1	55	nviOccupancyCmd	SNVT_switch(95)		BAS Occupancy Command **0 = Unoccupied (Default)** 1 = Occupied (Enables Unit Operation)
54	Circulation Pump Output Command	pump_cmd_1	BV:15	discrete in	10023	binary in	27	49	nvoPumpCmd	SNVT_switch(95)	✓	Loop Water Pump Status 0 = Pump Running 1 = Pump Off
55	Pump Runtime	pump_rntm_1	BV:29	discrete in	10022	binary in	26	48	nvoPumpRntm	SNVT_switch(95)	✓	Pump Runtime Alarm
56	Reset Pump Rntm	pump_rntm_rst_1	BV:17	discrete out	5	binary in	28	50	nviPumpRntmRst	SNVT_switch(95)		Reset Pump Runtime **0 = Inactive (Default)** 1 = Active Reset
57	Rev Valve Action	rev_vlv_action_1	BV:14	discrete out	6	binary in	29	51	nviRevVlvAction	SNVT_switch(95)		Reversing Valve Action **1 = Cooling (Default)** 0 = Heating
58	Reversing Valve Output Status	rev_vlv_cmd_1	BV:13	discrete in	10024	binary in	30	52	nvoRevVlvCmd	SNVT_switch(95)	✓	Reversing Valve Output Status 0 = Reversing Valve De-energized 1 = Reversing Valve Energized
59	UPM Input Alarm	upm_input_1	BV:30	discrete in	10025	binary in	31	53	nvoUpmInput	SNVT_switch(95)	✓	UPM Input Failure Alarm 0 = UPM Connected 1 = UPM Connection Failure
60	UPM Reset	upm_rst_1	BV:0	discrete out	7	binary in	3	60	nviUpmRst	SNVT_switch(95)		UPM Reset. Momentary On/Off required **0 = Reset Off (Default)** 1 = Reset On
61	Changeover Temperature Sensor Failure	xovr_sen_1	BV:31	discrete in	10026	binary in	33	54	nvoXovrSen	SNVT_switch(95)	✓	Changeover Temperature Sensor Failure