

#	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	30005	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	30001	data float	5	4	nvoCmp1State	SNVT_count_inc(9)	✓	Reports the State of the Compressor 1 = Lead 2 = Lag 3 = Fault
3	Comp2 State	cmp2_state_1	AV:14	float value	30065	data float	6	5	nvoCmp2State	SNVT_count_inc(9)	✓	Reports the State of the Compressor 2 1 = Lead 2 = 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 <b>4 = Digital Input (Off = Heat/On = Cool) (Default)</b>
5	Control Source	ctrl_source_1	AV:16	float value	40011	data float	61	49	nviCtrlSource	SNVT_count_inc(9)		Control Source for Occupancy Setup 0 = Digital Input Enable (e.g. Room Occupancy Sensor) <b>1 = Keypad Schedule (Default)</b> 2 = BAS Occupancy Command (Default) 3 = Factory Use Only 4 = Manual On-Continuous
6	Current Alarm	current_alm_1	AV:19	float value	30003	data float	9	60	nvoCurrentAlm	SNVT_count_inc(9)	✓	Alarm Status of unit: 0 = No Alarm, 1-9 = UPM Fault Code (See UPM alarms below) 20 = Output Overridden via Keypad 30 = Sensor Failure 40 = Leaving Water Temperature High/Low Alarm 70 = Pump Runtime/Compressors 1 & 2 Runtime <b>110 = Load Water Temperature High/Low Alarm</b>
7	Effect Cooling Setpoint	eff_clg_stpt_1	AV:11	float value	30011	data float	12	9	nvoEffClgStpt	SNVT_count_inc(9)	✓	Effective Cooling Setpoint (after setpoint adjustment applied)
8	Effect Heating Setpoint	eff_htg_stpt_1	AV:12	float value	30013	data float	13	10	nvoEffHtgStpt	SNVT_count_inc(9)	✓	Effective Heating Setpoint (after setpoint adjustment applied)
9	Effect Load Temp	eff_load_tmp_1	AV:10	float value	30017	data float	15	12	nvoEffLoadTmp	SNVT_count_inc(9)	✓	Effective Load Temperature
10	Effect Leaving Wtr Temp	eff_lvg_wtr_tmp_1	AV:9	float value	30015	data float	14	11	nvoEffLvgWtrTmp	SNVT_count_inc(9)	✓	Effective Leaving Water Temperature Status
11	Effect Changeover Temp	eff_xovr_tmp_1	AV:8	float value	30009	data float	11	8	nvoEffXovrTmp	SNVT_count_inc(9)	✓	Effective Changeover Temperature
12	Occ Clg Setpoint in Fahrenheit	occ_clg_stpt_1	AV:4	float value	40013	data float	17	14	nviOccClgStpt	SNVT_temp_p(105)		Occupied Cooling Setpoint Setup in °F <b>Default: 54 °F</b>
13	Occ Clg Setpoint in Celsius	occ_clg_stpt_c_1	AV:504	float value	40015	data float	18	15	nviOccClgStptC	SNVT_temp_p(105)		Occupied Cooling Setpoint Setup in °C <b>Default: 12°C</b>
14	Occ Htg Setpoint in Fahrenheit	occ_htg_stpt_1	AV:2	float value	40017	data float	19	16	nviOccHtgStpt	SNVT_temp_p(105)		Occupied Heating Setpoint Setup in °F <b>Default: 105 °F</b>
15	Occ Htg Setpoint in Celsius	occ_htg_stpt_c_1	AV:502	float value	40019	data float	20	17	nviOccHtgStptC	SNVT_temp_p(105)		Occupied Heating Setpoint Setup in °C <b>Default: 40°C</b>
16	Setpoint Differential in Fahrenheit	stpt_diff_1	AV:5	float value	40023	data float	22	19	nviStptDiff	SNVT_count_inc(9)		Setpoint Differential in Fahrenheit <b>Default: 1°</b>
17	Setpoint Differential in Celsius	stpt_diff_c_1	AV:505	float value	40021	data float	21	18	nviStptDiffC	SNVT_count_inc(9)		Setpoint Differential in Celsius <b>Default: 2°</b>
18	System Mode	sys_mode_1	AV:18	float value	30021	data float	23	51	nvoSysMode	SNVT_count_inc(9)	✓	Reports the System Mode 1 = Neutral 2 = Heating 3 = Cooling
19	Temp Unit Selection	temp_unit_mode_1	AV:550	float value	40025	data float	24	20	nviTempUnitMode	SNVT_count_inc(9)		Temperature Unit Selection <b>0 = Fahrenheit (Default)</b> 1 = Celsius
20	Unocc Clg Setpoint in Fahrenheit	unocc_clg_stpt_1	AV:3	float value	40027	data float	25	21	nviUnoccClgStpt	SNVT_temp_p(105)		Unoccupied Cooling Setpoint Setup in °F <b>Default: 74 °F</b>
21	Unocc Clg Setpoint in Celsius	unocc_clg_stpt_c_1	AV:503	float value	40029	data float	26	22	nviUnoccClgStptC	SNVT_temp_p(105)		Unoccupied Cooling Setpoint Setup in °C <b>Default: 24 °C</b>
22	Unocc Htg Setpoint in Fahrenheit	unocc_htg_stpt_1	AV:1	float value	40031	data float	27	23	nviUnoccHtgStpt	SNVT_temp_p(105)		Unoccupied Heating Setpoint Setup in °F <b>Default: 85 °F</b>
23	Unocc Htg Setpoint in Celsius	unocc_htg_stpt_c_1	AV:501	float value	40033	data float	28	24	nviUnoccHtgStptC	SNVT_temp_p(105)		Unoccupied Heating Setpoint Setup in °C <b>Default: 30 °C</b>
24	Changeover Deadband in Fahrenheit	xovr_dbnd_1	AV:7	float value	40001	data float	1	0	nviXovrDbnd	SNVT_temp_p(105)		Changeover Deadband in °F <b>Default: 3</b>
25	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 <b>Default: 2</b>
26	Changeover Setpoint in Fahrenheit	xovr_stpt_1	AV:6	float value	40005	data float	3	2	nviXovrStpt	SNVT_temp_p(105)		Changeover Setpoint in °F <b>Default: 65 °F</b>
27	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 <b>Default: 18 °C</b>

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28	Alarm Status (Alarm or Normal)	alm_status_1	BV:20	discrete in	10001	binary in	1	25	nvoAlrmStatus	SNVT_switch(95)	✓	Network Status indicating alarm condition in unit (see "Current Alarm" for more information) 0 = System Normal 1 = System in Alarm
29	UPM Safety - High Pressure Alarm	hp1_2st_1	BV:5	discrete in	10035	binary in	36	54	nvoHp12st	SNVT_switch(95)	✓	UPM High Pressure Alarm Status 0 = Normal 1 = High Pressure Alarm (UPM-I code = 1; UPM-II codes = 1,3)
30	UPM Safety - Low Pressure Alarm	lp1_2st_1	BV:4	discrete in	10039	binary in	41	55	nvoLp12st	SNVT_switch(95)	✓	UPM Low Pressure Alarm Status 0 = Normal 1 = Low Pressure Alarm (UPM-I code = 2; UPM-II codes = 2,4)
31	UPM Safety - Condenser Coil Freeze Alarm	frz_2st_1	BV:8	discrete in	10030	binary in	31	53	nvoFrz2st	SNVT_switch(95)	✓	UPM Condenser Coil Freeze Alarm Status 0 = Normal 1 = Condenser Freeze Alarm (UPM-I code = 3; UPM-II codes = 5,9)
32	UPM Safety - High Condensate Alarm	con_2st_1	BV:3	discrete in	10008	binary in	12	58	nvoCon2st	SNVT_switch(95)	✓	UPM Condensate Drain Alarm Status 0 = Normal 1 = Condensate Overflow Alarm (UPM-I code = 4; UPM-II code = 6)
33	UPM Safety - Brownout Alarm	brn_2st_1	BV:2	discrete in	10002	binary in	2	57	nvoBrn2st	SNVT_switch(95)	✓	UPM Brownout Alarm Status 0 = Normal 1 = Brownout Alarm (UPM-I code = 5; UPM-II code = 7)
34	Comp1 Output Cmd	cmp1_cmd_1	BV:9	discrete in	10005	binary in	6	28	nvoCmp1Cmd	SNVT_switch(95)	✓	Compressor Stage 1 Output Status 0 = Compressor 1 Off 1 = Compressor 1 On
35	Compressor 1 Runtime Reset	cmp1_rntm_rst_1	BV:11	discrete out	00002	binary in	7	29	nviCmp1RntmRst	SNVT_switch(95)		Compressor 1 Runtime Reset. Momentary On/Off required. 0 = Reset Off (Default) 1 = Reset On
36	Comp2 Output Cmd	cmp2_cmd_1	BV:10	discrete in	10006	binary in	8	30	nvoCmp2Cmd	SNVT_switch(95)	✓	Compressor Stage 2 Output Status 0 = Compressor 2 Off 1 = Compressor 2 On
37	Compressor 2 Runtime Reset	cmp2_rntm_rst_1	BV:12	discrete out	00003	binary in	9	31	nviCmp2RntmRst	SNVT_switch(95)		Compressor 2 Runtime Reset. Momentary On/Off required. 0 = Reset Off (Default) 1 = Reset On
38	Continuous Pump(s)	cont_pump_1	BV:16	discrete out	00004	binary in	10	32	nviContPump	SNVT_switch(95)		Continuous Pump Selection 0 = Cycle With Compressors (Default) 1 = Run Continuously when in OCC or NSB
39	Digital Override Lock Alarm	do_lock_1	BV:32	discrete in	10007	binary in	11	33	nvoDoLock	SNVT_switch(95)	✓	Digital Override Lock Alarm 0 = Normal 1 = Digital Override Enabled Alarm
40	Compressor 1 Stage Runtime Expired Alarm	dx1_rntm_1	BV:33	discrete in	10003	binary in	4	26	nvoDx1Rntm	SNVT_switch(95)	✓	Compressor 1 Runtime Alarm 0 = Normal 1 = Timer Has Expired (Default: >8760 Hours)
41	Compressor 2 Stage Runtime Expired Alarm	dx2_rntm_1	BV:34	discrete in	10004	binary in	5	27	nvoDx2Rntm	SNVT_switch(95)	✓	Compressor 2 Runtime Alarm Status 0 = Normal 1 = Timer Has Expired (Default: >8760 Hours)
42	Inputs Override Status	input_lock_1	BV:22	discrete in	10011	binary in	15	34	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	35	nvoLoadHi	SNVT_switch(95)	✓	High Load Water Temperature 0 = Normal 1 = High Load Temperature (Default: 10 °F / 6 °C Above Setpoint)
44	Low Load Temp Alarm	load_lo_1	BV:24	discrete in	10013	binary in	17	36	nvoLoadLo	SNVT_switch(95)	✓	Low Load Water Temperature 0 = Normal 1 = Low Load Temperature (Default: 10 °F / 6 °C Below Setpoint)
45	Load Sensor Failure Alarm	load_sen_1	BV:25	discrete in	10014	binary in	18	37	nvoLoadSen	SNVT_switch(95)	✓	Load Sensor Failure 0 = Normal 1 = Sensor Failure (Check Load Sensor Hardware)
46	High Leaving Water Temperature	lvg_hi_1	BV:26	discrete in	10017	binary in	21	38	nvoLvgHi	SNVT_switch(95)	✓	High Leaving Water Temperature Alarm (LWT) 0 = Normal 1 = Alarm (Default: >135 °F / 65 °C)
47	Low Leaving Water Temperature	lvg_lo_1	BV:27	discrete in	10018	binary in	22	39	nvoLvgLo	SNVT_switch(95)	✓	Low Leaving Water Temperature (LWT) 0 = Normal 1 = Alarm (Default: <35 °F / 1 °C)
48	Leaving Water Temperature Sensor Failure	lvg_sen_1	BV:28	discrete in	10019	binary in	23	40	nvoLvgSen	SNVT_switch(95)	✓	Leaving Water Temperature Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Source Sensor Hardware)
49	NSB Status	nsb_status_1	BV:19	discrete in	10020	binary in	24	50	nvoNsbStatus	SNVT_switch(95)	✓	Night Setback Status 0 = Night Setback disabled 1 = Night Setback enabled
50	Occupancy Status	occ_status_1	BV:18	discrete in	10021	binary in	25	48	nvoOccStatus	SNVT_switch(95)	✓	Occupancy Status 0 = Unoccupied 1 = Occupied

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51	Occupancy Command (BAS)	occupancy_cmd_1	BV:1	discrete out	00001	binary out	1	47	nviOccupancyCmd	SNVT_switch(95)		BAS Occupancy Command <b>0 = Unoccupied (Default)</b> 1 = Occupied (Enables Unit Operation when BAS is selected for Control Source)
52	Circulation Pump Output Command	pump_cmd_1	BV:15	discrete in	10023	binary in	27	42	nvoPumpCmd	SNVT_switch(95)	✓	Loop Water Pump Status 0 = Pump Running 1 = Pump Off
53	Pump Runtime	pump_rntm_1	BV:29	discrete in	10022	binary in	26	41	nvoPumpRntm	SNVT_switch(95)	✓	Pump Runtime Alarm 0 = Normal 1 = Timer Has Expired ( <b>Default: &gt;8760 Hours</b> )
54	Reset Pump Rntm	pump_rntm_rst_1	BV:17	discrete out	00005	binary in	28	43	nviPumpRntmRst	SNVT_switch(95)		Reset Pump Runtime <b>0 = Inactive (Default)</b> 1 = Active Reset
55	Rev Valve Action	rev_vlv_action_1	BV:14	discrete out	00006	binary in	29	44	nviRevVlvAction	SNVT_switch(95)		Reversing Valve Action 0 = Energize valve when Heating <b>1 = Energize valve when Cooling (Default)</b>
56	Reversing Valve Output Status	rev_vlv_cmd_1	BV:13	discrete in	10024	binary in	30	45	nvoRevVlvCmd	SNVT_switch(95)	✓	Reversing Valve Output Status 0 = Reversing Valve De-energized 1 = Reversing Valve Energized
57	UPM Input Alarm	upm_input_1	BV:39	discrete in	10064	binary in	60	56	nvoUpmInput	SNVT_switch(95)	✓	UPM Input Failure Alarm 0 = UPM Connected 1 = UPM Connection Failure
58	UPM Reset	upm_rst_1	BV:7	discrete out	00007	binary in	3	52	nviUpmRst	SNVT_switch(95)		UPM Reset. Momentary On/Off required <b>0 = Reset Off (Default)</b> 1 = Reset On
59	Changeover Temperature Sensor Failure	xovr_sen_1	BV:31	discrete in	10026	binary in	33	46	nvoXovrSen	SNVT_switch(95)	✓	Changeover Temperature Sensor Failure 0 = Normal 1 = Sensor Failure ( <b>Check Changeover Sensor Hardware</b> )