

#	Point Description Name	BACnet		MODBUS		N2		LON		Read Only	Description
		Name	Type ID	Object Type	Type	ID	SNVT #	Name	SNVT		
1	Compressor Stages	cmp_stgs_1	AV:15	Input Register (Float)	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 (Default)
2	Comp1 State	cmp1_state_1	AV:13	Input Register (Float)	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	Input Register (Float)	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	Holding Register (Float)	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	Holding Register (Float)	40011	data float	61	49	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
6	Current Alarm	current_alarm_1	AV:19	Input Register (Float)	30003	data float	9	60	nvoCurrentAlarm	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 110 = Load Water Temperature High/Low Alarm
7	Effect Cooling Setpoint	eff_clg_stpt_1	AV:11	Input Register (Float)	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	Input Register (Float)	30013	data float	13	10	nvoEffHtgStpt	SNVT_count_inc(9)	✓ Effective Heating Setpoint (after setpoint adjustment applied)
9	Effect Load Temp	eff_load_tmp_f_1	AV:10	Input Register (Float)	30017	data float	15	12	nvoEffLoadTmp	SNVT_temp_p(105)	✓ Effective Load Temperature
10	Effect Leaving Wtr Temp	eff_lvg_wtr_tmp_1	AV:9	Input Register (Float)	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	Input Register (Float)	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	Holding Register (Float)	40013	data float	17	14	nviOccClgStpt	SNVT_temp_p(105)	Occupied Cooling Setpoint Setup in °F Default: 54 °F
13	Occ Clg Setpoint in Celsius	occ_clg_stpt_c_1	AV:504	Holding Register (Float)	40015	data float	18	15	nviOccClgStptC	SNVT_temp_p(105)	Occupied Cooling Setpoint Setup in °C Default: 12 °C
14	Occ Htg Setpoint in Fahrenheit	occ_htg_stpt_1	AV:2	Holding Register (Float)	40017	data float	19	16	nviOccHtgStpt	SNVT_temp_p(105)	Occupied Heating Setpoint Setup in °F Default: 105 °F
15	Occ Htg Setpoint in Celsius	occ_htg_stpt_c_1	AV:502	Holding Register (Float)	40019	data float	20	17	nviOccHtgStptC	SNVT_temp_p(105)	Occupied Heating Setpoint Setup in °C Default: 40 °C
16	Setpoint Differential in Fahrenheit	stpt_diff_1	AV:5	Holding Register (Float)	40023	data float	22	19	nviStptDiff	SNVT_temp_p(105)	Setpoint Differential in Fahrenheit Default: 1°
17	Setpoint Differential in Celsius	stpt_diff_c_1	AV:505	Holding Register (Float)	40021	data float	21	18	nviStptDiffC	SNVT_temp_p(105)	Setpoint Differential in Celsius Default: 2°
18	System Mode	sys_mode_1	AV:18	Input Register (Float)	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	Holding Register (Float)	40025	data float	24	20	nviTempUnitMode	SNVT_count_inc(9)	Temperature Unit Selection 0 = Fahrenheit (Default) 1 = Celsius
20	Unocc Clg Setpoint in Fahrenheit	unocc_clg_stpt_1	AV:3	Holding Register (Float)	40027	data float	25	21	nviUnoccClgStpt	SNVT_temp_p(105)	Unoccupied Cooling Setpoint Setup in °F Default: 74 °F
21	Unocc Clg Setpoint in Celsius	unocc_clg_stpt_c_1	AV:503	Holding Register (Float)	40029	data float	26	22	nviUnoccClgStptC	SNVT_temp_p(105)	Unoccupied Cooling Setpoint Setup in °C Default: 24 °C
22	Unocc Htg Setpoint in Fahrenheit	unocc_htg_stpt_1	AV:1	Holding Register (Float)	40031	data float	27	23	nviUnoccHtgStpt	SNVT_temp_p(105)	Unoccupied Heating Setpoint Setup in °F Default: 85 °F
23	Unocc Htg Setpoint in Celsius	unocc_htg_stpt_c_1	AV:501	Holding Register (Float)	40033	data float	28	24	nviUnoccHtgStptC	SNVT_temp_p(105)	Unoccupied Heating Setpoint Setup in °C Default: 30 °C
24	Changeover Deadband in Fahrenheit	xovr_dbnd_1	AV:7	Holding Register (Float)	40001	data float	1	#N/A	#N/A	#N/A	Changeover Deadband in °F Default: 3
25	Changeover Deadband in Celsius	xovr_dbnd_c_1	AV:507	Holding Register (Float)	40003	data float	2	1	nviXovrDbndC	SNVT_temp_p(105)	Changeover Deadband in °C Default: 2
26	Changeover Setpoint in Fahrenheit	xovr_stpt_1	AV:6	Holding Register (Float)	40005	data float	3	2	nviXovrStpt	SNVT_temp_p(105)	Changeover Setpoint in °F Default: 65 °F
27	Changeover Setpoint in Celsius	xovr_stpt_c_1	AV:506	Holding Register (Float)	40007	data float	4	3	nviXovrStptC	SNVT_temp_p(105)	Changeover Setpoint in °C Default: 18 °C
28	Alarm Status (Alarm or Normal)	almr_status_1	BV:20	Discrete Input	10001	binary in	1	25	nvoAlmrStatus	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 Input	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 Input	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 Input	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 Input	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 Input	10002	binary in	2	57	nvoBm2st	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 Input	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	Coil	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 Input	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	Coil	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	Coil	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 Input	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 Input	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 Input	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 Input	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 Input	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 Input	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 Input	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 Input	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 Input	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 Input	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 Input	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 Input	10021	binary in	25	48	nvoOccStatus	SNVT_switch(95)	✓	Occupancy Status 0 = Unoccupied 1 = Occupied
51	Occupancy Command (BAS)	occupancy_cmd_1	BV:1	Coil	00001	binary out	1	47	nviOccupancyCmd	SNVT_switch(95)		BAS Occupancy Command 0 = Unoccupied (Default) 1 = Occupied (Enables Unit Operation when BAS is selected for Control Source)
52	Circulation Pump Output Command	pump_cmd_1	BV:15	Discrete Input	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 Input	10022	binary in	26	41	nvoPumpRntm	SNVT_switch(95)	✓	Pump Runtime Alarm 0 = Normal 1 = Timer Has Expired (Default: >8760 Hours)
54	Reset Pump Rntm	pump_rntm_rst_1	BV:17	Coil	00005	binary in	28	43	nviPumpRntmRst	SNVT_switch(95)		Reset Pump Runtime 0 = Inactive (Default) 1 = Active Reset
55	Rev Valve Action	rev_vlv_action_1	BV:14	Coil	00006	binary in	29	44	nviRevVlvAction	SNVT_switch(95)		Reversing Valve Action 0 = Energize valve when Heating 1 = Energize valve when Cooling (Default)
56	Reversing Valve Output Status	rev_vlv_cmd_1	BV:13	Discrete Input	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 Input	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	Coil	00007	binary in	3	52	nviUpmRst	SNVT_switch(95)		UPM Reset. Momentary On/Off required 0 = Reset Off (Default) 1 = Reset On
59	Changeover Temperature Sensor Failure	xovr_sen_1	BV:31	Discrete Input	10026	binary in	33	46	nvoXovrSen	SNVT_switch(95)	✓	Changeover Temperature Sensor Failure 0 = Normal 1 = Sensor Failure (Check Changeover Sensor Hardware)
60	UPM Safety - A2L Alarm	a2l_2st_1	BV:40	Discrete Input	10040	binary in	40	N/A	N/A	N/A	✓	UPM A2L Alarm Status 0 = Normal 1 = A2L Alarm (UPM-I code = 7; UPM-II code = 11)
61	UPM Safety - Second Stage Communication Alarm	comm_2st_1	BV:42	Discrete Input	10042	binary in	42	N/A	N/A	N/A	✓	UPM Second Stage Communication Alarm 0 = Normal 1 = Communication Alarm (UPM-II code = 12)
The below points are ONLY for Factory Use.												
60	Test DO-1	do_one_1	BV:91001									
61	Test DO-2	do_two_1	BV:91002									
62	Test DO-3	do_three_1	BV:91003									
63	Test DO-4	do_four_1	BV:91004									
64	Test DO-5	do_five_1	BV:91005									
65	EOL Factory Test	fac_test_enable_1	BV:91000									