

	Point Name	BACnet		MODBUS		N2		Read Only	Point Description
		Name	Type ID	Object Type	Register	Type	ID		
1	CO2 Hardware Failure Alarm	zn_co2_fail_1	BV:51	Discrete Input	10001	Binary Input	56	Yes	CO2 Zone Sensor Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Hardware)
2	Backup Electric Heating Coil Position	bkup_elect_ht_pos_1	AV:105	Input Register (Float)	30001	Float Register	1	Yes	Backup Modulating Electric Heating Coil Status: 0% - 100%
3	Backup Heat Lock Value	bkup_ht_lock_val_1	AV:35	Holding Register (Float)	40001	Float Register	2		Backup Heat Lock Value - Test & Balance: 0% - 100%
4	BAS CO2 Sensor Value	bas_co2_val_1	AV:49	Holding Register (Float)	40003	Float Register	3		CO2 Sensor Value provided by BAS in PPM
5	BAS DAT Sensor	bas_dat_val_1	AV:90	Holding Register (Float)	40005	Float Register	4		Discharge Air Temperature (DAT) provided by BAS in °F
6	Effective Cooling Setpoint	eff_clg_stpt_1	AV:5	Input Register (Float)	30003	Float Register	91	Yes	Effective Cooling Setpoint (after setpoint adjustment applied) in °F
7	BAS RH Sensor Value	bas_rh_sen_val_1	AV:56	Holding Register (Float)	40007	Float Register	6		Relative Humidity (RH) provided by BAS in %
8	Boilerless-Economizer Status	econ_boil_mode_stat_1	AV:34	Input Register (Float)	30005	Float Register	8	Yes	Boilerless / Economizer Option Status 0 = Disabled 1 = Boilerless 2 = Water Side Economizer
9	Coil Configuration	coil_cfg_1	AV:336	Holding Register (Float)	40009	Float Register	10		Coil Configuration Setup 0 = Parallel (Default) 1 = Series
10	Coil Configuration Status	coil_cfg_status_1	AV:337	Input Register (Float)	30007	Float Register	11	Yes	Coil Configuration Status 0 = Parallel 1 = Series
11	compressor control status	comp_ctrl_status_1	AV:60	Input Register (Float)	30009	Float Register	12	Yes	Compressor Control Status 0 = Zone Control 1 = Discharge Air Control
12	Compressor Stages	cmp_stgs_1	AV:14	Input Register (Float)	30011	Float Register	92	Yes	Compressor Stage Status 1 = 1 Compressor 1 Stage 2 = 2 Compressor 2 Stages 3 = 3 Compressor 3 Stages (3 and 4 Stage units only) 4 = 4 Compressor 4 Stages (4 Compressor units only) 5 = 1 Compressor 2 Stages
13	Control Source	ctrl_source_1	AV:15	Holding Register (Float)	40011	Float Register	15		Control Source for Occupancy Setup 0 = Digital Input 1 1 = Keypad Schedule 2 = BAS Occupancy Command (Default) 3 = Factory Use 4 = Manual On-Continuous
14	Night Setback (NSB) Status	nsb_status_1	BV:22	Discrete Input	10002	Binary Input	13	Yes	Night Setback Status 0 = Disabled 1 = Night Setback Enabled
15	Cooling Setpoint	sat_stpt_cl_1	AV:303	Holding Register (Float)	40013	Float Register	17		Cooling Supply Air Temperature Setpoint in °F Default: 65 °F
16	Current Alarm	current_alarm_1	AV:17	Input Register (Float)	30013	Float Register	19	Yes	Alarm Status of unit: 0 = No Alarm 1-7 = UPM Fault Code 20 = Output Overridden via Keypad 30 = Sensor Failure 40 = Leaving Water Temp Alarm 50 = Zone Temp Alarm 60 = Discharge Air Temperature 70 = Filter Alarm/Compressors 1 & 2 Runtime 80 = Zone Humidity Alarm 90 = High CO2 Level Alarm

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17	DAT Sensor Selection	dat_sel_1	AV:81	Holding Register (Float)	40015	Float Register	20		Discharge Air Temperature Sensor Setup 0 = Zone DAT (Default) 1 = DAT Sensor 2 = SAT Sensor 3 = BAS Supplied DAT
18	DAT Sensor Source Selection Status	dat_sel_sta_1	AV:82	Input Register (Float)	30015	Float Register	21	Yes	Discharge Air Temperature Sensor Selection 0 = Zone DAT 1 = DAT Sensor 2 = SAT Sensor 3 = BAS Supplied DAT
19	Demand Level	demand_level_1	AV:64	Holding Register (Float)	40017	Float Register	22		Demand Level Setup in °F
20	Eff HGR Mod Valve 1	eff_hgr_mod_vlv1_1	AV:28	Input Register (Float)	30017	Float Register	24	Yes	Hot Gas Reheat Modulating Valve Output Status in %
21	Eff SA Static Pressure	eff_sa_sta_press_1	AV:53	Input Register (Float)	30019	Float Register	26	Yes	Static Air Pressure Sensor Status in H20"
22	Eff Zone Co2 Lev	eff_zn_co2 Lev_1	AV:25	Input Register (Float)	30021	Float Register	27	Yes	Zone CO2 Levels + Offset in PPM
23	Low Remote Temperature Alarm	zrem_lo_1	BV:42	Discrete Input	10003	Binary Input	61	Yes	Remote Sensor Zone Temperature Alarm (Low) 0 = Normal 1 = Low Zone Temperature (Default: 10 °F Below Setpoint)
24	Effect Disch Air Temp	eff_dat_1	AV:10	Input Register (Float)	30023	Float Register	29	Yes	Discharge Air Temperature (DAT) + Offset in °F
25	Effect EW Temp	eff_ewt_1	AV:62	Input Register (Float)	30025	Float Register	30	Yes	Entering Water Temperature + Offset in °F
26	Low ZS Zone Sensor Temperature Alarm	ztmp_lo_1	BV:27	Discrete Input	10004	Binary Input	63	Yes	Zone Temperature Alarm (Low) 0 = Normal 1 = Low Zone Temperature (Default: 10 °F Below Setpoint)
27	Effect Leaving Wtr Temp	eff_lwt_1	AV:11	Input Register (Float)	30027	Float Register	32	Yes	Leaving Water Temperature + Offset in °F
28	Effect Load Temp	eff_load_tmp_1	AV:32	Input Register (Float)	30029	Float Register	33	Yes	Load Temperature (Entering Water) in °F
29	Effect Outdoor Air Temp	eff_oat_1	AV:75	Input Register (Float)	30031	Float Register	34	Yes	Outdoor Temperature + Offset in °F
30	Effective Zone Humidity	eff_zone_humid_1	AV:20	Input Register (Float)	30033	Float Register	36	Yes	Zone Humidity Status + Offset in %
31	Enabled Stages	enabled_clstages_1	AV:68	Input Register (Float)	30035	Float Register	95	Yes	Number of Compressor Stages Enabled
32	EWLT Low Trip Point	ewlt_low_trip_1	AV:101	Holding Register (Float)	40021	Float Register	38		Entering Water Loop Temperature Low Trip Setpoint in °F Default: 45 °F
33	EWLT Low Trip Point Hyst	ewlt_low_trip_hyst_1	AV:102	Holding Register (Float)	40023	Float Register	39		Entering Water Loop Temperature Low Trip Point Hysteresis in °F Default: 0.0
34	EWLT Timer Above Limit	ewlt_trip_timer_1	AV:103	Holding Register (Float)	40025	Float Register	40		Entering Water Loop Temperature Timer Above Limit in Minutes Default: 15 Minutes
35	IN 10 HW CFG	in10_cfg_sel_1	AV:93	Holding Register (Float)	40027	Float Register	44		Input Port 10 Hardware selector (Configured via BACview Terminal) 0 = DPS 1 = FSS 2 = OAT 3 = Not installed (Default)
36	Input 10 Status	in_10_mode_stat_1	AV:94	Input Register (Float)	30037	Float Register	45	Yes	Reads the configuration status of UI-10
37	Input 4 Status	in_4_mode_stat_1	AV:36	Input Register (Float)	30039	Float Register	46	Yes	Input Port 04 Hardware Status (Configured via BACview Terminal) 0 = VFD Over Current Hardware (From VFD Controller) 1 = CO2 Hardware 2 = Not Installed (Default) 3 = CWV Feedback

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38	Input 7 Status	in_7_mode_stat_1	AV:37	Input Register (Float)	30041	Float Register	47	Yes	Input Port 07 Hardware Status (Configured via BACview Terminal) 0 = VFD Overvoltage Hardware (From VFD Controller) 1 = Entering Water Temperature Sensor 2 = Not Installed (Default)
39	Input 9 Status	in_9_mode_stat_1	AV:38	Input Register (Float)	30043	Float Register	48	Yes	Input Port 09 Hardware Status (Configured via BACview Terminal) 0 = VFD Overload Hardware (From VFD Controller) 2 = Not Installed (Default)
40	M/S CFG Status	ms_status_1	AV:95	Input Register (Float)	30045	Float Register	49	Yes	Master/Save Configuration Status
41	Master/Slave HW CFG	ms_cfg_1	AV:96	Holding Register (Float)	40029	Float Register	50		Master/Save Option Setup 0 = Normal Operation (Default) 1 = Master 2 = Slave
42	mode status	mode_status_1	AV:24	Input Register (Float)	30047	Float Register	51	Yes	Unit Mode of Operation Selection Status 0 = Cooling only 1 = Aux Heat 2 = Heat Pump (Default) 3 = Heat Pump + Aux Heat 4 = Heat Pump + Hot Gas Re-Heat 5 = Cooling + Hot Gas Re-Heat 6 = Heat Pump + Hot Gas Reheat + Auxiliary Heat
43	OAT Reset	oat_reset1_1	AV:80	Holding Register (Float)	40031	Float Register	96		Outside Air Temperature (Free Cooling) Operation in °F Default: 50 °F
44	OAT Reset 2	oat_reset2_1	AV:72	Holding Register (Float)	40033	Float Register	97		Outside Air Temperature (Stage 1 Cooling) Operation in °F Default: 60 °F
45	OAT Reset 3	oat_reset3_1	AV:74	Holding Register (Float)	40035	Float Register	54		Outside Air Temperature (Stage 2 Cooling) Operation in °F Default: 70 °F
46	OAT Reset 4	oat_reset4_1	AV:76	Holding Register (Float)	40037	Float Register	55		Outside Air Temperature (Stage 3 Cooling) Operation in °F Default: 78 °F
47	OAT Reset 5	oat_reset5_1	AV:79	Holding Register (Float)	40039	Float Register	56		Outside Air Temperature (Stage 4 Cooling) Operation in °F Default: 84 °F
48	OAT Reset MA	oat_reset_ht_1	AV:92	Holding Register (Float)	40041	Float Register	57		Outside Air Mixed Air Temperature (Pre-Heating) Operation in °F Default: 40 °F
49	OAT Reset Mode	oat_rst_mode_1	AV:71	Holding Register (Float)	40043	Float Register	58		Outside Air Temperature Reset Mode Setup 0 = Single Temperature 1 = Multiple Temperature (Default)
50	OAT Reset Selection	oat_sel_1	AV:73	Holding Register (Float)	40045	Float Register	59		Outside Air Temperature Sensor Setup 0 = BAS supplied OAT 1 = Hardwired OAT Sensor (Default)
51	OAT Select	oat_sel_sta_1	AV:78	Input Register (Float)	30049	Float Register	60	Yes	Outside Air Temperature Sensor Configuration Status 0 = BAS OAT 1 = Hardwired OAT
52	Occupied Zone Humidity Setpoint	occ_zhumid_stpt_1	AV:21	Holding Register (Float)	40047	Float Register	63		Occupied Humidity Setpoint Setup in % Default: 50%

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53	Output Override	htg_ovrde_1	AV:39	Holding Register (Float)	40049	Float Register	64		Heating Compressor Output Override 0 = Off 1 = Override Heating (% Required via BACview Terminal)
54	Output Override	clg_ovrde_1	AV:40	Holding Register (Float)	40051	Float Register	65		Cooling Compressor Output Override 0 = Off 1 = Override Cooling (% Required via BACview Terminal)
55	Outside Air Reset Mode Status	oat_rst_mode_stat_1	AV:89	Input Register (Float)	30051	Float Register	98	Yes	Outside Air Temperature Reset Mode Status 0 = Single 1 = Multiple
56	SA Static Press High Trip	sa_sta_hi_trip_1	AV:54	Holding Register (Float)	40053	Float Register	71		High Static Air Pressure Alarm Trip Setpoint inches of H2O Setup Default: 4.0"
57	Setpoint Adjust	stpt_adj_dem_1	AV:41	Input Register (Float)	30053	Float Register	75	Yes	Demand Level Setpoint Adjust in °F
58	Static Press Setpoint	sta_press_stpt_1	AV:52	Holding Register (Float)	40055	Float Register	76		Duct Static Pressure Setpoint in inches of H2O Setup
59	Static Pressure Shutdown	st_press_trip_1	AV:69	Holding Register (Float)	40057	Float Register	77		Duct Static Pressure Trip in inches of H2O Setup Default: 0.25"
60	Suplpy Air Fan min speed	saf_min_speed_1	AV:59	Holding Register (Float)	40059	Float Register	78		Minimum VFD Fan Speed Setpoint Setup Default: 20%
61	Supply Air Temperature	eff_sat_1	AV:67	Input Register (Float)	30055	Float Register	79	Yes	Supply Air Temperature Status in °F
62	supply air low trip	sat_lo_trip_1	AV:77	Holding Register (Float)	40061	Float Register	80		Low Supply Air Temperature (DAC) Setup Default: < 80 °F
63	Supply Air Setpoint Differential	sat_stpt_diff_1	AV:65	Holding Register (Float)	40063	Float Register	99		Supply Air Setpoint Differential in °F
64	Supply Air Temp Setpoint	sa_setpt_1	AV:31	Input Register (Float)	30057	Float Register	83	Yes	Supply Air Temperature Setpoint in °F
65	System Status	sys_status_1	AV:16	Input Register (Float)	30059	Float Register	100	Yes	General System Status 0 = Unoccupied 1 = Occupied 2 = Fan Only 3 = Heating 4 = Cooling 5 = Transition to Cool 6 = Transition to Heat 7 = Manual Cool 8 = Manual Heat 9 = Aux Heat 10 = Re-Heat 11 = Manual Re-Heat 12 = Transition to Re-Heat
66	Unit_mode	unit_mode_1	AV:23	Holding Register (Float)	40065	Float Register	85		Unit Mode Setup 0 = Cooling only 1 = Aux Heat 2 = Heat Pump (Default) 3 = Heat Pump + Aux Heat 4 = Heat Pump + Hot Gas Re-Heat 5 = Cooling + Hot Gas Re-Heat 6 = Heat Pump + Hot Gas Re-Heat +Auxiliary Electric Heat
67	Zone Co2 High Trip	zn_co2_hi_trip_1	AV:27	Holding Register (Float)	40067	Float Register	88		Level of CO2 reported as a High Level Alarm
68	Zone Humidity Stpt Diff	zhumid_stpt_diff_1	AV:22	Holding Register (Float)	40069	Float Register	89		Zone Humidity Setpoint Differential in % Default: 2%, Range 1% - 5%
69	Alarm Status	alm_status_1	BV:24	Discrete Input	10005	Byte	1	Yes	Alarm Status of Unit (see "Current Alarm" for more information)

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		Name	Type ID	Object Type	Register	Type	ID	Read Only	
70	Allow CWV Alarm	allow_cwv_alarm_1	BV:106	Coil	1	Byte	2		Enable Condensate Water Valve Alarm Pass Through 0 = Off 1 = Enable CWV Alarm
71	Aux Heat Output Cmd	aux_htg_cmd_1	BV:20	Discrete Input	10006	Byte	3	Yes	Auxiliary Heat Output Stage 1 Command Status (Flex + Expander) 0 = Off 1 = Heat On
72	Aux Heat Output Cmd	aux_htg3_cmd_1	BV:86	Discrete Input	10007	Byte	4	Yes	Auxiliary Heat Output Stage 3 Command Status (Flex + Expander) 0 = Off 1 = Heat On
73	Aux Heat Output Cmd	aux_htg4_cmd_1	BV:88	Discrete Input	10008	Byte	5	Yes	Auxiliary Heat Output Stage 4 Command Status (Flex + Expander) 0 = Off 1 = Heat On
74	Aux Heat Output Cmd	aux_htg2_cmd_1	BV:84	Discrete Input	10009	Byte	6	Yes	Auxiliary Heat Output Stage 2 Command Status (Flex + Expander) 0 = Off 1 = Heat On
75	Aux Heat Output Cmd Flex Only	aux_htg1_fo_1	BV:97	Discrete Input	10010	Byte	7	Yes	Auxiliary Heat Output Stage 1 Command Status (Flex Only) 0 = Off 1 = Heat On
76	Aux Heat Output Cmd Flex Only	aux_htg2_fo_1	BV:98	Discrete Input	10011	Byte	8	Yes	Auxiliary Heat Output Stage 2 Command Status (Flex Only) 0 = Off 1 = Heat On
77	Backup Heat Lock?	bkup_ht_lock_1	BV:2	Coil	2	Byte	9		Backup Heat Lock Enabled 0 = Off 1 = On (Heating % must be provided via BACview)
78	BAS SD Input	bas_sd_in_1	BV:91	Coil	3	Byte	10		BAS supplied input for Smoke Detector (Network Supplied) 0 = Normal 1 = Smoke Alarm Active
79	BRN	brn_2st_1	BV:10	Discrete Input	10012	Byte	11	Yes	UPM Board 1 Brownout Alarm Status 0 = Normal 1 = Brownout Alarm Active
80	BRN2	brn_4st_1	BV:58	Discrete Input	10013	Byte	12	Yes	UPM Board 2 Brownout Alarm Status 0 = Normal 1 = Brownout Alarm Active
81	BV Occupancy Command (BAS)	occupancy_cmd_1	BV:1	Coil	4	Byte	13		Occupancy Command (BAS) 0 = Disable Unit Operation 1 = Enable Unit Operation
82	CMP1_RNTM	comp1_rntm_1	BV:35	Discrete Input	10014	Byte	14	Yes	Compressor 1 Runtime Alarm Status, (Hours) 0 = Off 1 = Timer Has Expired
83	CMP2_RNTM	comp2_rntm_1	BV:36	Discrete Input	10015	Byte	15	Yes	Compressor 2 Runtime Alarm Status, (Hours) 0 = Off 1 = Timer Has Expired
84	CMP3_RNTM	comp3_rntm_1	BV:69	Discrete Input	10016	Byte	16	Yes	Compressor 3 Runtime Alarm Status (Hours) 0 = Off 1 = Timer Has Expired
85	CMP4_RNTM	comp4_rntm_1	BV:71	Discrete Input	10017	Byte	17	Yes	Compressor 4 Runtime Alarm Status (Hours) 0 = Off 1 = Timer Has Expired
86	Comp Stage1 Output Cmd	cmp_stg1_cmd_1	BV:11	Discrete Input	10018	Byte	18	Yes	Compressor Stage 1 Output Status 0 = Compressor Stage 1 Off 1 = Compressor 1 On

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		Name	Type ID	Object Type	Register	Type	ID		
87	Comp Stage2 Output Cmd	cmp_stg2_cmd_1	BV:12	Discrete Input	10019	Byte	19	Yes	Compressor Stage 2 Output Status 0 = Compressor 2 Off 1 = Compressor 2 On
88	Comp Stage3 Output Cmd	cmp_stg3_cmd_1	BV:66	Discrete Input	10020	Byte	20	Yes	Compressor Stage 3 Output Status 0 = Compressor 3 Off 1 = Compressor 2 On
89	Comp Stage4 Output Cmd	cmp_stg4_cmd_1	BV:67	Discrete Input	10021	Byte	21	Yes	Compressor Stage 4 Output Status 0 = Compressor 2 Off 1 = Compressor 2 On
90	Comp1 Runtime Rst	cmp1_rntm_rst_1	BV:13	Coil	5	Byte	22		Compressor 1 Runtime Reset. Momentary On/Off required.
91	Comp2 Runtime Rst	cmp2_rntm_rst_1	BV:14	Coil	6	Byte	23		Compressor 2 Runtime Reset. Momentary On/Off required.
92	Comp3 Runtime Rst	cmp3_rntm_rst_1	BV:68	Coil	7	Byte	24		Compressor 3 Runtime Reset. Momentary On/Off required.
93	Comp4 Runtime Rst	cmp4_rntm_rst_1	BV:70	Coil	8	Byte	25		Compressor 4 Runtime Reset. Momentary On/Off required.
94	CON	con_2st_1	BV:9	Discrete Input	10022	Byte	26	Yes	UPM Board 1 Condensate Alarm 0 = Normal 1 = Condensate Alarm
95	CON2	con_4st_1	BV:57	Discrete Input	10023	Byte	27	Yes	UPM Board 2 Condensate Alarm 0 = Normal 1 = Condensate Alarm
96	Condenser Valve Status	cond_vlv_status_1	BV:105	Discrete Input	10024	Byte	28	Yes	Condenser Valve Status (Closed to Enable Compressor Operation) 0 = Compressor Operation Disabled 1 = Compressor Operation Enabled
97	Continous Fan	Cont_fan_1	BV:18	Coil	9	Byte	29		Run Fan continuously During Occupancy Mode Setup 0 = Cycle Fan with Compressor Operation 1 = Run Fan when Occupied (Default)
98	Cooling Econo	clg_econ_1	BV:63	Discrete Input	10025	Byte	30	Yes	Economizer Valve Status 0 = Off 1 = On
99	CSAT_HI	csat_hi_1	BV:80	Discrete Input	10026	Byte	31	Yes	High Cooling Supply Air Temperature Alarm 0 = Normal 1 = High Supply Temperature Alarm Active
100	CWV Command	cwv_command_1	BV:109	Discrete Input	10027	Byte	32	Yes	Condenser Water Valve Command Status 0 = Off 1 = On
101	CWV_FAIL	cwv_fail_1	BV:107	Discrete Input	10028	Byte	33	Yes	Condenser Water Valve Failure Alarm
102	CWV_HAND	cwv_hand_1	BV:108	Discrete Input	10029	Byte	34	Yes	Condenser Hand Alarm Condenser Valve Command Enabled without unit commanded
103	DA_SENS_FAIL	da_sen_1	BV:31	Discrete Input	10030	Byte	35	Yes	Discharge Air Temperature Sensor Alarm (Sensor) 0 = Sensor Connected 1 = Sensor Not Installed
104	Damper Output Cmd	damper_cmd_1	BV:49	Discrete Input	10031	Byte	36	Yes	Damper Output Status 0 = Closed 1 = Open
105	DAT_HI	dat_hi_1	BV:29	Discrete Input	10032	Byte	37	Yes	Discharge Air Temperature Sensor Alarm (Cooling) 0 = Normal 1 = High DAT (Default: >70 °F)
106	DAT_LO	dat_lo_1	BV:30	Discrete Input	10033	Byte	38	Yes	Discharge Air Temperature Sensor Alarm (Heating) 0 = Normal 1 = Low DAT (Default: >75 °F)
107	DO_LOCK	do_lock_1	BV:37	Discrete Input	10034	Byte	39	Yes	Digital Override Lock Alarm 0 = Normal 1 = Digital Override Has Been Enabled

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108	DPS Alarm	DPS_alarm_1	BV:77	Discrete Input	10035	Byte	40	Yes	Differential Pressure Switch (DPS) 0 = Normal 1 = Active DPS
109	DX_RNTM	dx_rntm_1	BV:79	Discrete Input	10036	Byte	41	Yes	Compressor Runtime Alarm for Any Compressor 0 = Normal 1 = Compressor Time Expired (Default: 8760 Hrs)
110	Effect HGR Vlv Command	eff_hgrv_cmd_1	BV:44	Discrete Input	10037	Byte	42	Yes	Hot Gas Re-Heat Valve Output Status 0 = Off 1 = Valve Enabled
111	ELW_SENS_FAIL	elw_sen_1	BV:72	Discrete Input	10038	Byte	43	Yes	Entering Water Temperature Sensor Alarm 0 = Normal 1 = Sensor Failure Alarm (Check Hardware Configuration)
112	FILTER	filter_1	BV:40	Discrete Input	10039	Byte	46	Yes	Filter Alarm 0 = Normal 1 = Active
113	Filter Status	filter_status_1	BV:50	Discrete Input	10040	Byte	47	Yes	Filter Status 0 = Normal 1 = Clean Filter
114	FRE	frz_2st_1	BV:8	Discrete Input	10041	Byte	48	Yes	UPM Board 1 Freeze Alarm 0 = Normal 1 = Active Freeze Condition
115	FRE2	frz_4st_1	BV:56	Discrete Input	10042	Byte	49	Yes	UPM Board 2 Freeze Alarm 0 = Normal 1 = Active Freeze Condition
116	Heating Econo	htg_econ_1	BV:62	Discrete Input	10043	Byte	50	Yes	Boilerless Operation Status 0 = Off 1 = Compressors Off & Electric Heat Enabled
117	High Static Status	blw_static_status_1	BV:96	Discrete Input	10044	Byte	51	Yes	High Static Pressure Status 0 = Normal 1 = High Static Pressure
118	HP1	hp1_2st_1	BV:5	Discrete Input	10045	Byte	52	Yes	UPM Board 1 High Pressure Alarm Status for Compressor 1 0 = Normal 1 = Active High Pressure 1 Alarm
119	HP2	hp2_2st_1	BV:52	Discrete Input	10046	Byte	53	Yes	UPM Board 2 High Pressure Alarm Status for Compressor 3 0 = Normal 1 = Active High Pressure 3 Alarm
120	HP3	hp3_3st_1	BV:7	Discrete Input	10047	Byte	54	Yes	UPM Board 1 High Pressure Alarm Status for Compressor 2 0 = Normal 1 = High Pressure 2 Alarm
121	HP4	hp4_4st_1	BV:54	Discrete Input	10048	Byte	55	Yes	UPM Board 2 High Pressure Alarm Status for Compressor 4 0 = Normal 1 = High Pressure 4 Alarm
122	HSAT_LO	hsat_lo_1	BV:61	Discrete Input	10049	Byte	56	Yes	Heating Supply Air Temp Alarm (Low) 0 = Normal 1 = Active (Default: <80 °F)
123	INPUT_LOCK	input_lock_1	BV:38	Discrete Input	10050	Byte	57	Yes	Software Input Lock Alarm 0 = Normal 1 = Software Lock Enabled
124	Loop Enabled	loop_enabled_1	BV:23	Coil	10	Byte	58		Loop Status 0 = Disable Heat/Cool 1 = Allow Heating and Cooling
125	LOW SP	sta_press_low_1	BV:81	Discrete Input	10051	Byte	59	Yes	Low Static Pressure Alarm 0 = Normal 1 = Alarm Active (Default: 0.25")
126	LP1	lp1_2st_1	BV:4	Discrete Input	10052	Byte	60	Yes	UPM Board 1 Low Pressure Alarm Status for Compressor 1 0 = Normal 1 = LP1 Alarm Active
127	LP2	lp2_2st_1	BV:53	Discrete Input	10053	Byte	61	Yes	UPM Board 2 Low Pressure Alarm Status for Compressor 3 0 = Normal 1 = LP3 Alarm Active

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128	LP3	x_1	BV:6	Discrete Input	10054	Byte	62	Yes	UPM Board 1 Low Pressure Alarm Status for Compressor 2 0 = Normal 1 = Low Pressure 2 Alarm
129	LP4	lp4_4st_1	BV:55	Discrete Input	10055	Byte	63	Yes	UPM Board 2 Low Pressure Alarm Status for Compressor 4 0 = Normal 1 = LP4 Alarm Active
130	LVG_HI	lv_g_hi_1	BV:32	Discrete Input	10056	Byte	64	Yes	Leaving Water Temperature Alarm (High) 0 = Normal 1 = High LWT Alarm Active (Default: >135 °F)
131	LVG_LO	lv_g_lo_1	BV:33	Discrete Input	10057	Byte	65	Yes	Leaving Water Temperature (LWT) Alarm (Low) 0 = Normal 1 = Low LWT Alarm Active (Default: <21 °F)
132	LVG_SENS_FAIL	lv_g_sen_1	BV:34	Discrete Input	10058	Byte	66	Yes	Leaving Water Temperature Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Hardware Configuration)
133	OA_SENS_FAIL	oat_sen_1	BV:99	Discrete Input	10059	Byte	68	Yes	Outside Air Temperature Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Hardware Configuration)
134	Output Override Lock	clg_ovrde_lock_1	BV:82	Coil	11	Byte	70		Cooling Override Lock Setup - Test and Balance 0 = Off 1 = On
135	Overcurrent Status	blw_ovrc_status_1	BV:93	Discrete Input	10060	Byte	71	Yes	Over Current Status (Provided by VFD) 0 = Normal 1 = Over Current Detected
136	Overload	blwr_ovrload_alm_1	BV:75	Discrete Input	10061	Byte	72	Yes	Blower Overload Alarm 0 = Normal 1 = Overload Detected
137	Overload Status	blw_ovrload_status_1	BV:74	Discrete Input	10062	Byte	73	Yes	Blower Overload Input Status 0 = Normal 1 = Active Blower Overload
138	Overvoltage Status	blw_ovrv_status_1	BV:95	Discrete Input	10063	Byte	74	Yes	Overvoltage Status (Provided by VFD) 0 = Normal 1 = Overvoltage Detected
139	Ovrcurrent	blwr_ovrcurrent_alm_1	BV:92	Discrete Input	10064	Byte	75	Yes	Blower Over Current Alarm 0 = Normal 1 = Over Current Detected
140	Ovrvoltage	blwr_ovrv_alm_1	BV:94	Discrete Input	10065	Byte	76	Yes	Blower Overvoltage Alarm 0 = Normal 1 = Overvoltage Detected
141	Reset Fan Rntm	fan_rntm_rst_1	BV:19	Coil	12	Byte	77		Reset Fan Runtime. Momentary On/Off required. Toggled upon filter change.
142	Rev Valve Action	rev_vlv_act_1	BV:16	Coil	13	Byte	78		Reversing Valve Action Parameter Setup. Setting this option will reverse the operation of the unit. 0 = Heating is enabled 1 = Cooling is enabled (Default)
143	SA_CFG	sa_config_error_1	BV:90	Discrete Input	10066	Byte	80	Yes	Smoke Alarm Configuration Alarm
144	SA_SENS_FAIL	sas_sen_1	BV:65	Discrete Input	10067	Byte	81	Yes	Static Air Pressure Sensor Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Hardware)
145	SAS_HI	sas_hi_1	BV:64	Discrete Input	10068	Byte	82	Yes	Static Air Pressure Alarm (High) 0 = Normal 1 = High Static Pressure (Default: 4.0" H2O)
146	SAT SENS FAIL	sat-sen_1	BV:73	Discrete Input	10069	Byte	83	Yes	Supply Air Temperature Sensor Failure 0 = Normal 1 = Sensor Failure (Check Sensor Hardware)

	Point Name	BACnet		MODBUS		N2		Read Only	Point Description
		Name	Type ID	Object Type	Register	Type	ID		
147	SAT_HI	sat_hi_1	BV:78	Discrete Input	10070	Byte	84	Yes	Cooling Supply Air Temperature (SAT) Alarm (High) 0 = Normal 1 = High SAT Alarm Active
148	SAT_LO	sat_lo_1	BV:206	Discrete Input	10071	Byte	85	Yes	Heating Supply Air Temp Alarm (Low) 0 = Normal 1 = Low SAT Alarm Active
149	Smk Det Alarm	smoke_1	BV:89	Discrete Input	10072	Byte	86	Yes	Smoke Detector Alarm 0 = Normal 1 = Alarm
150	smoke detector status	smoke_status_1	BV:87	Discrete Input	10073	Byte	87	Yes	Smoke Alarm Status 0 = Normal 1 = Smoke Detector Active
151	UPM INPUT	upm_input_1	BV:39	Discrete Input	10074	Byte	88	Yes	UPM Input Failure Alarm - Board 1 0 = UPM Connected 1 = UPM Connection Failure
152	UPM2 INPUT	upm2_input_1	BV:59	Discrete Input	10075	Byte	89	Yes	UPM Input Failure Alarm - Board 2 0 = UPM Connected 1 = UPM Connection Failure
153	UPM Reset	upm_rst_1	BV:25	Coil	15	Byte	90		UPM Board 1 Reset. Momentary On/Off required.
154	UPM Reset	upm2_rst_1	BV:60	Coil	16	Byte	91		UPM Board 2 Reset. Momentary On/Off required.
155	ZHUM_HI	zhumid_hi_1	BV:45	Discrete Input	10076	Byte	92	Yes	Zone Humidity Alarm (High) 0 = Normal 1 = High Humidity (Default: 10% above Setpoint)
156	ZHUM_LO	zhumid_lo_1	BV:46	Discrete Input	10077	Byte	93	Yes	Zone Humidity Alarm (Low) 0 = Normal 1 = Low Humidity (Default: 30% below Setpoint)
157	ZHUM_SENS_FAIL	zhumid_sen_1	BV:47	Discrete Input	10078	Byte	94	Yes	Zone Humidity Alarm (Sensor) 0 = Normal 1 = Sensor Failure (Check Sensor Failure)
158	ZN_CO2_HI	zn_co2_hi_1	BV:48	Discrete Input	10079	Byte	96	Yes	CO2 Zone Sensor Alarm (High) 0 = Normal 1 = High CO2 Level (Default: >1200 PPM)
159	Rev Valve Output Cmd	rev_vlv_cmd_1	BV:15	Discrete Input	10080	Byte	79	Yes	Reversing Valve Output Status 0 = Valve De-energized 1 = Valve Energized
160	Software Version	version_1	AV:8000	Input Register (Float)	30061	Float Register	90	Yes	#N/A
161	Occupancy Status	occ_status_1	BV:21	Discrete Input	10081	Byte	44	Yes	Occupancy Status 0 = Unoccupied 1 = Occupied
162	Cooling Demand Percentage	clg_pct_1	AV:13	Input Register (Float)	30063	Float Register	13	Yes	Cooling Demand Status in % (Zone or DAC)
163	Heating Demand Percentage	htg_pct_1	AV:12	Input Register (Float)	30065	Float Register	37	Yes	Heating Demand Status in %
164	High ZS Zone Sensor Temperature Alarm	ztmp_hi_1	BV:26	Discrete Input	10082	Binary Input	62	Yes	Zone Temperature Alarm (High) 0 = Normal 1 = High Zone Temperature (Default: 10 °F Above Setpoint)
165	ZS Zone Sensor Hardware Failure Alarm	zone_sen_1	BV:28	Discrete Input	10083	Binary Input	58	Yes	Zone Sensor Failure Alarm 0 = Normal 1 = Sensor Failure (Check Sensor Hardware)
166	High Remote Temperature Alarm	zrem_hi_1	BV:41	Discrete Input	10084	Binary Input	60	Yes	Remote Sensor Zone Temperature Alarm (High) 0 = Normal 1 = High Zone Temperature (Default: 10 °F Above Setpoint)
167	Remote Temperature Sensor Hardware Failure Alarm	zrem_sen_1	BV:43	Discrete Input	10085	Binary Input	59	Yes	Remote Temperature Zone Sensor Failure Alarm 0 = Normal 1 = Sensor Failure (Check Sensor Hardware)
168	ZS Sensor Setpoint Adjustment Limit	stpt_adj_lim_1	AV:42	Holding Register (Float)	40071	Float Register	61		Used to set the allowable range of setpoint manipulation from a ZS sensor in the space Default: +/- 3 °F

	Point Name	BACnet		MODBUS		N2		Read Only	Point Description
		Name	Type ID	Object Type	Register	Type	ID		
169	Effective Heating Setpoint	eff_htg_stpt_1	AV:6	Input Register (Float)	30067	Float Register	23	Yes	Effective Heating Setpoint (after setpoint adjustment applied) in °F
170	Setpoint	occ_clg_stpt_1	AV:4	Holding Register (Float)	40073	Float Register	52		Occupied Cooling Setpoint Setup in °F Default: 74 °F
171	Setpoint	occ_htg_stpt_1	AV:2	Holding Register (Float)	40075	Float Register	53		Occupied Heating Setpoint Setup in °F Default: 70 °F
172	Setpoint	unocc_clg_stpt_1	AV:1	Holding Register (Float)	40077	Float Register	66		Unoccupied Cooling Setpoint Setup in °F Default: 90 °F
173	Setpoint	unocc_htg_stpt_1	AV:3	Holding Register (Float)	40079	Float Register	67		Unoccupied Heating Setpoint Setup in °F Default: 55 °F
174	Override Time Remaining	tlo_rem_1	AV:115	Input Register (Float)	30069	Float Register	82	Yes	Reports time remaining since ZS Plus/Pro sensor in the space was placed in manual override mode
175	Compressor Control Mode	comp_mode_1	AV:8	Holding Register (Float)	40081	Float Register	7		Compressor Mode Setup 0 = Zone (Default) 1 = Discharge Air Control 2 = Zone (BAS) 3 = Zone (Remote)
176	Override Status	override_status_1	BV:76	Discrete Input	10086	Byte	45	Yes	Reports status of override button on ZS Plus/Pro Sensor 0 = Normal 1 = ZS Sensor in Override Mode
177	Effect Zone Remote Temperature	eff_remzone_temp_1	AV:9	Input Register (Float)	30071	Float Register	25	Yes	Reports the Effective Temperature from a Zone Remote Temp Sensor after any offsets have been applied
178	Effective ZS Sensor Temperature	zt_reset_1	AV:116	Input Register (Float)	30073	Float Register	84	Yes	Effective Zone Temperature reading from ZS sensor after any offsets have been applied (for Discharge Air Control with Zone Temp Reset)
179	BAS Outdoor Air Temp	bas_oat_1	AV:29	Holding Register (Float)	40083	Float Register	5		BAS OAT value = 60F (Default)
180	Eff SA Fan Speed	eff_sa_fan_speed_1	AV:55	Input Register (Float)	30075	Float Register	94	Yes	VFD Modulating Air Fan Speed Status in %
181	BAS Temperature Sensor Value	bas_sen_val_1	AV:7	Holding Register (Float)	40085	Float Register	9		Zone Temperature Value provided by BAS in °F
182	Input 3 configuration selector	in3_cfg_sel_1	AV:18	Holding Register (Float)	40087	Float Register	14		Input Port 3 Hardware selector (Configured via BACview Terminal) 0 = Not installed (Default) 1 = Leaving Water temperature sensor
183	Input 3 Configuration status	in3_cfg_sta_1	AV:19	Input Register (Float)	30077	Float Register	16	Yes	Reports the status of Input 3 Configuration
184	Remote Temp or Return Air Temp Value	zone_rem_sen_val_1	AV:26	Input Register (Float)	30079	Float Register	18	Yes	Reports the Return Air Temperature or Zone Remote Temperature at the Sensor
185	Supply Air High Differential Trip	sat_hi_trip_1	AV:30	Holding Register (Float)	40089	Float Register	28		Supply Air Temperature High Trip Setpoint Setup
186	Zone Temperature	eff_zone_temp_1	AV:57	Input Register (Float)	30081	Float Register	31	Yes	Zone Temperature in °F
187	ZS Sensor Combo Selector	zs_sen_combo_sel_1	AV:58	Holding Register (Float)	40091	Float Register	35		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

	Point Name	BACnet		MODBUS		N2		Read Only	Point Description
		Name	Type ID	Object Type	Register	Type	ID		
188	ZS Sensor Enable	zs_sensor_en_1	AV:61	Holding Register (Float)	40093	Float Register	43		ZS sensor enable selector: 0 = No ZS sensors 1 = ZS sensors enabled (Default)
189	DAT Sepoint reset	da_stpt_reset_1	BV:3	Coil	17	Byte	67		Discharge Air Temperature Setpoint reset Enable Selector 0 = Disabled (Default) 1 = Enabled
190	Fan Response for Comp Lockout	lckout_resp_1	BV:17	Coil	18	Byte	69		Configures Fan Response during Compressor Lockout by system 0 = Do not lock fan upon compressor lockout (Default) 1 = Lock fan upon compressor lockout
191	Counter No Serial	serial_number_1	AV:2004	Holding Register (Float)	40095	Float Register	62		Serial number
192	Counter Number local	counter_no_local_1	AV:2003	Holding Register (Float)	40097	Float Register	68		Serial number
193	Part Number	bosch_pn1_1	AV:2005	Holding Register (Float)	40099	Float Register	69		Serial number
194	Plant Code	factory_pc_1	AV:2001	Holding Register (Float)	40101	Float Register	70		Serial number
195	Stages	stages_1	AV:114	Holding Register (Float)	40103	Float Register	72		Compressor Stages Configuration 1 = 1 Compressor 1 Stage 2 = 2 Compressor 2 Stages 3 = 3 Compressor 3 Stages (3 and 4 Stage units only) 4 = 4 Compressor 4 Stages (4 Compressor units only) (Default) 5 = 1 Compressor 2 Stages
196	Warranty	mfg_date_1	AV:2002	Holding Register (Float)	40105	Float Register	73		Serial number
197	SAT 8	sa_temp_1	AI:1	Input Register (Float)	30083	Analog Input	1	Yes	Supply Air Temperature in °F
198	Input 1 Configuration Status	in1_cfg_sta_1	AV:109	Input Register (Float)	30085	Float Register	74	Yes	Reports the status of Input 1 Configuration
199	Fan_mode	Fan_mode_1	AV:50	Holding Register (Float)	40107	Float Register	42		Fan Mode Selection Setup 1 = Standard Fan Configuration (default) 2 = Variable Frequency Drive Configuration
200	fan mode status	fan_mode_status_1	AV:51	Input Register (Float)	30087	Float Register	41	Yes	Status of Fan Mode Selection 0 = Start / Stop Fan Operation 1 = Variable Frequency Drive Fan Operation