



Marvel Premium points list

MODBUS

Form: MARVPREM_BMS_080218
DATE: 8/2/2018 Rev. A

Index	Variable/BACnet Name	Description	Type	Access	Format	Default	Minimum	Maximum	MultiStat Value	Multistate Text	Inactive Text	Active Text
Coils												
1	SystemOnOff	System ON/OFF	Coil	Read/Write					N/A	N/A	OFF	ON
2	UnoccFan_en	Unoccupied Fan Enable	Coil	Read/Write					N/A	N/A	Closed	Open
3	Override_ON	Unoccupied Override Status	Coil	Read/Write					N/A	N/A	OFF	ON
4	EnergyRecoveryWheel_en	Energy Recovery Wheel Enable	Coil	Read/Write					N/A	N/A	Occupied	Unoccupied
5	ExhaustFan_en	Exhaust Blower/Fan Enable	Coil	Read/Write					N/A	N/A	Unoccupied	Occupied
6	Schedule_en	Schedule Enable	Coil	Read/Write					N/A	N/A	Disable	Enable
Discrete Inputs												
10001	OutdoorAirDamper	Outdoor Air Damper Status	Discrete Input	Read Only					N/A	N/A	Override OFF	Override ON
10002	SupplyBlower	Supply Air Blower Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10003	Unoccupied	Unoccupied Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10004	Occupied	Occupied Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10005	Compressor_1	Compressor 1 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10006	Compressor_2	Compressor 2 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10007	Compressor_3	Compressor 3 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10008	Compressor_4	Compressor 4 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10009	Heater_1	Heater 1 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10010	Heater_2	Heater 2 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	Heat Pump - Valve Open	Air Conditioning - Valve Closed
10011	Heater_3	Heater 3 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	Heat Pump - Valve Open	Air Conditioning - Valve Closed
10012	Heater_4	Heater 4 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	Heat Pump - Valve Open	Air Conditioning - Valve Closed
10013	ReversingValve_1	Reversing Valve 1 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	Heat Pump - Valve Open	Air Conditioning - Valve Closed
10014	ReversingValve_2	Reversing Valve 2 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10015	ReversingValve_3	Reversing Valve 3 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10016	ReversingValve_4	Reversing Valve 4 ON/OFF Status	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10017	Compressor_1_HP_Alarm	Alarm - Compressor 1 High Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10018	Compressor_1_LP_Alarm	Alarm - Compressor 1 Low Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10019	Compressor_2_HP_Alarm	Alarm - Compressor 2 High Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10020	Compressor_2_LP_Alarm	Alarm - Compressor 2 Low Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10021	Compressor_3_HP_Alarm	Alarm - Compressor 3 High Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10022	Compressor_3_LP_Alarm	Alarm - Compressor 3 Low Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10023	Compressor_4_HP_Alarm	Alarm - Compressor 4 High Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10024	Compressor_4_LP_Alarm	Alarm - Compressor 4 Low Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10025	Airflow_Alarm	Alarm - Loss of Airflow	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10026	FireSmoke_Alarm	Alarm - Fire/Smoke Detected	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10027	DrainPan_Alarm	Alarm - Drain Pan	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10028	WaterFlow_Alarm	Alarm - Loss of Water Flow	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10029	DirtyFilter_Alarm	Alarm - Dirty Air Filter(s)	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10030	HighDuctStatic_Alarm	Alarm - High Duct Static Pressure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10031	HighHeatLimit_Alarm	Alarm - Heater High Limit	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10032	DigComp_1_Module_Alarm	Alarm - Digital Compressor 1 Module	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10033	DigComp_2_Module_Alarm	Alarm - Digital Compressor 2 Module	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10034	DigComp_3_Module_Alarm	Alarm - Digital Compressor 3 Module	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10035	DigComp_4_Module_Alarm	Alarm - Digital Compressor 4 Module	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10036	Motor_1_Overload_Alarm	Alarm - Motor 1 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10037	Motor_2_Overload_Alarm	Alarm - Motor 2 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10038	Motor_3_Overload_Alarm	Alarm - Motor 3 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10039	Motor_4_Overload_Alarm	Alarm - Motor 4 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10040	VFD_1_Overload_Alarm	Alarm - VFD 1 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10041	VFD_2_Overload_Alarm	Alarm - VFD 2 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10042	VFD_3_Overload_Alarm	Alarm - VFD 3 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10043	VFD_4_Overload_Alarm	Alarm - VFD 4 Overload	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10044	WaterCoil_FreezeStat_Alarm	Alarm - Freeze Protect Mode	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10045	CompsFreezeStat_Alarm	Alarm - Compressor Freeze Protection	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10046	OA_Damper_Alarm	Alarm - Outdoor Damper Failed to Open	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10047	AlarmReturnHighTemp	Alarm - Return Temperature High	Discrete Input	Read Only					N/A	N/A	Normal	Alarm

10048	AlarmReturnLowTemp	Alarm - Return Temperature Low	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10049	AlarmReturnHighHumidity	Alarm - Return Humidity High	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10050	AlarmReturnLowHumidity	Alarm - Return Humidity Low	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10051	AlarmSupplyHighTemp	Alarm - Supply Temperature High	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10052	AlarmSupplyLowTemp	Alarm - Supply Temperature Low	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10053	AlarmDuctPressureHigh	Alarm - Duct Pressure High	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10054	AlarmDuctPressureLow	Alarm - Duct Pressure Low	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10055	ReturnTemperature_FAIL	Alarm - Return Temperature Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10056	SpaceTemperature_FAIL	Alarm - Space Temperature Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10057	ReturnHumidity_FAIL	Alarm - Return Humidity Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10058	SpaceHumidity_FAIL	Alarm - Space Humidity Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10059	OutdoorTemperature_FAIL	Alarm - Outdoor Temperature Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10060	OutdoorHumidity_FAIL	Alarm - Outdoor Humidity Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10061	DuctPressure_FAIL	Alarm - Duct Pressure Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10062	LiquidPressure_1_FAIL	Alarm - Liquid Pressure 1 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10063	LiquidPressure_2_FAIL	Alarm - Liquid Pressure 2 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10064	LiquidPressure_3_FAIL	Alarm - Liquid Pressure 3 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10065	LiquidPressure_4_FAIL	Alarm - Liquid Pressure 4 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10066	SuctionPressure_1_FAIL	Alarm - Suction Pressure 1 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10067	SuctionPressure_2_FAIL	Alarm - Suction Pressure 2 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10068	SuctionPressure_3_FAIL	Alarm - Suction Pressure 3 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10069	SuctionPressure_4_FAIL	Alarm - Suction Pressure 4 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10070	LiquidTemperature_1_FAIL	Alarm - Liquid Temperature 1 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10071	LiquidTemperature_2_FAIL	Alarm - Liquid Temperature 2 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10072	LiquidTemperature_3_FAIL	Alarm - Liquid Temperature 3 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10073	LiquidTemperature_4_FAIL	Alarm - Liquid Temperature 4 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10074	SuctionTemperature_1_FAIL	Alarm - Suction Temperature 1 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10075	SuctionTemperature_2_FAIL	Alarm - Suction Temperature 2 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10076	SuctionTemperature_3_FAIL	Alarm - Suction Temperature 3 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10077	SuctionTemperature_4_FAIL	Alarm - Suction Temperature 4 Sensor Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10078	VFD_1_Frequency_FAIL	Alarm - VFD 1 Frequency Feedback Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10079	VFD_2_Frequency_FAIL	Alarm - VFD 2 Frequency Feedback Failure	Discrete Input	Read Only					N/A	N/A	Normal	Alarm
10080	VFD_3_Frequency_FAIL	Alarm - VFD 3 Frequency Feedback Failure	Discrete Input	Read Only					N/A	N/A	Closed	Open
10081	VFD_4_Frequency_FAIL	Alarm - VFD 4 Frequency Feedback Failure	Discrete Input	Read Only					N/A	N/A	Closed	Open
10082	RoomPressure_FAIL	Alarm - Room Pressure Sensor Failure	Discrete Input	Read Only					N/A	N/A	Closed	Open
10083	Compressor_1_HP_Active	Compressor 1 - High Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10084	Compressor_1_LP_Active	Compressor 1 - Low Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10085	Compressor_2_HP_Active	Compressor 2 - High Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10086	Compressor_2_LP_Active	Compressor 2 - Low Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10087	Compressor_3_HP_Active	Compressor 3 - High Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10088	Compressor_3_LP_Active	Compressor 3 - Low Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10089	Compressor_4_HP_Active	Compressor 4 - High Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10090	Compressor_4_LP_Active	Compressor 4 - Low Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10091	Airflow_Active	Airflow Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10092	DrainPan_Active	Drain Pan Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10093	DirtyFilter_Active	Dirty Filter Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10094	HeaterHighLimit_Active	Heater High Limit Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10095	Cond_OUT_Damper_ES_Active	Condenser Damper End Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10096	Cond_IN_Damper_ES_Active	Condenser OUT Damper End Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10097	OA_Damper_ES_Active	Outdoor Damper End Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10098	HighDuctPressure_Active	High Duct Pressure Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10099	Motor_1_Overload_Active	Motor 1 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10100	Motor_2_Overload_Active	Motor 2 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10101	Motor_3_Overload_Active	Motor 3 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10102	Motor_4_Overload_Active	Motor 4 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10103	VFD_1_Overload_Active	VFD 1 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10104	VFD_2_Overload_Active	VFD 2 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10105	VFD_3_Overload_Active	VFD 3 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10106	VFD_4_Overload_Active	VFD 4 Overload Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10107	WaterCoil_FreezeStat_Active	Hot Water, Steam, or Water Econ Freeze Stat Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10108	DigComp_1_Module_Active	Digital Compressor 1 Module Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10109	DigComp_2_Module_Active	Digital Compressor 2 Module Switch Open	Discrete Input	Read Only					N/A	N/A	Closed	Open
10110	DigComp_3_Module_Active	Digital Compressor 3 Module Switch Open	Discrete Input	Read Only					N/A	N/A	Open	Closed

10111	DigComp_4_Module_Active	Digital Compressor 4 Module Switch Open	Discrete Input	Read Only					N/A	N/A	No Water Flow	Water Flow OK
10112	CompsFreezeStat_Active	Compressor FreezeStat Switch Open	Discrete Input	Read Only					N/A	N/A	Water Flow OK	No Water Flow
10113	WaterFlow_Active	Water Flow Switch Open	Discrete Input	Read Only					N/A	N/A	Defrost OFF	Defrost ON
10114	WaterFlow_OK	Water is Flowing	Discrete Input	Read Only					N/A	N/A	Closed	Open
10115	No_WaterFlow	No Water Flow	Discrete Input	Read Only					N/A	N/A	OFF	ON
10116	DefrostMode_Active	Defrost Mode Active	Discrete Input	Read Only					N/A	N/A	OFF	ON
10117	PreheatHighLimit_Active	Preheat High Limit Switch Open	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10118	OA_Dewpoint_Mode	Supply Dewpoint Dehumidification Status (Digital Comps)	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10119	DewpointDehumMode_ON	Dewpoint Control Status (No Digital Comps)	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10120	EnableCompressor_1	Compressor 1 Enable	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10121	EnableCompressor_2	Compressor 2 Enable	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10122	EnableCompressor_3	Compressor 3 Enable	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10123	EnableCompressor_4	Compressor 4 Enable	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10124	EnableHeater_1	Heater 1 Enable	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10125	EnableHeater_2	Heater 2 Enable	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10126	EnableHeater_3	Heater 3 Enable	Discrete Input	Read Only					N/A	N/A	OFF	ON
10127	EnableHeater_4	Heater 4 Enable	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10128	Humidifier_ON	Humidifier ON	Discrete Input	Read Only					N/A	N/A	Disabled	Enabled
10129	ERW_ON	Ennergy Recovery Wheel Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
10130	ExhaustFan_ON	Exhaust Blower/Fan Status	Discrete Input	Read Only					N/A	N/A	OFF	ON
Input Registers												
30001	ReturnTemperature	Return Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30002	ReturnHumidity	Return Humidity	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30003	SpaceTemperature	Space Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30004	SpaceHumidity	Space Humidity	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30005	SupplyTemperature_1	Supply Temperature 1	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30006	SupplyTemperature_2	Supply Temperature 2	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30007	SupplyTemperature	Supply Temperature Average	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30008	OutdoorTemperature	Outdoor Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30009	OutdoorHumidity	Outdoor Humidity	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30010	WaterTemperature	Water Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30011	PreheatTemperature	Preheat Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30012	DuctPressure	Duct Pressure	Input Register	Read Only	+aa.aa	N/A	-10.00	10.00	N/A	N/A		
30013	LiquidPressure_1	Liquid Pressure 1	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30014	LiquidPressure_2	Liquid Pressure 2	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30015	LiquidPressure_3	Liquid Pressure 3	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30016	LiquidPressure_4	Liquid Pressure 4	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30017	SuctionPressure_1	Suction Pressure 1	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30018	SuctionPressure_2	Suction Pressure 2	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30019	SuctionPressure_3	Suction Pressure 3	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30020	SuctionPressure_4	Suction Pressure 4	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30021	ControlPressure	Maximum Liquid Pressure and Control Value	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30022	CondenserTemperature_IN	Condenser Inlet Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30023	CondenserTemperature_OUT	Condenser Outlet Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30024	LiquidTemperature_1	Liquid Temperature 1	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30025	LiquidTemperature_2	Liquid Temperature 2	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30026	LiquidTemperature_3	Liquid Temperature 3	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30027	LiquidTemperature_4	Liquid Temperature 4	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30028	SuctionTemperature_1	Suction Temperature 1	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30029	SuctionTemperature_2	Suction Temperature 2	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30030	SuctionTemperature_3	Suction Temperature 3	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30031	SuctionTemperature_4	Suction Temperature 4	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30032	Room_1_Temperature	Room 1 Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30033	Room_2_Temperature	Room 2 Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30034	Room_3_Temperature	Room 3 Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30035	Room_4_Temperature	Room 4 Temperature	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30036	RoomPressure	Room Pressure	Input Register	Read Only	+aa.aa	N/A	-99.99	99.99	N/A	N/A		
30037	VFD_1_Frequency	VFD 1 Frequency	Input Register	Read Only	+aa.a	N/A	-99.9	99.9	N/A	N/A		
30038	VFD_2_Frequency	VFD 2 Frequency	Input Register	Read Only	+aa.a	N/A	-99.9	99.9	N/A	N/A		
30039	VFD_3_Frequency	VFD 3 Frequency	Input Register	Read Only	+aa.a	N/A	-99.9	99.9	N/A	N/A		
30040	VFD_4_Frequency	VFD 4 Frequency	Input Register	Read Only	+aa.a	N/A	-99.10	99.10	N/A	N/A		
30041	CoolDemand	Cooling Demand	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		

30042	HeatDemand	Heating Demand	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30043	DehumidifyDemand	Dehumidification Demand	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30044	HumidifyDemand	Humidification Demand	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30045	ReheatDemand	Reheat Demand	Input Register	Read Only	+aaa.a	N/A	-999.9	999.9	N/A	N/A		
30046	HGBP_1_CoolDem_Demand_vdc	Mod Hot Gas Bypass 1 by Cooling Demand (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30047	HGBP_2_CoolDem_Demand_vdc	Mod Hot Gas Bypass 2 by Cooling Demand (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30048	VFD_PressureDemand_vdc	Variable Frequency Drive Pressure Control (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30049	ECM_Pressure_Demand_vdc	EC Motor Pressure Control (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30050	HeadPress_Valve_1_vdc	Discharge Pressure Valve 1 Output (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30051	HeadPress_Valve_2_vdc	Discharge Pressure Valve 2 Output (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30052	HeadPress_Valve_3_vdc	Discharge Pressure Valve 3 Output (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30053	HeadPress_Valve_4_vdc	Discharge Pressure Valve 4 Output (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30054	DigComp_1_Demand_vdc	Digital Compressor 1 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30055	DigComp_2_Demand_vdc	Digital Compressor 2 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30056	DigComp_3_Demand_vdc	Digital Compressor 3 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30057	DigComp_4_Demand_vdc	Digital Compressor 4 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30058	ModHeat_1_Demand_vdc	Modulating Heater 1 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30059	ModHeat_2_Demand_vdc	Modulating Heater 2 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30060	AirEcon_Demand_vdc	Airside Economizer (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30061	WSE_Demand_vdc	Waterside Economizer (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30062	ModReheat_1_Demand_vdc	Modulating Reheat 1 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30063	ModReheat_2_Demand_vdc	Modulating Reheat 2 (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30064	ModHumidifier_Demand_vdc	Modulating Humidifier (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30065	VFD_Temp_Demand_vdc	Modulating Supply Blower - Single Zone VAV (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30066	Preheat_Demand_vdc	Preheat Demand (vdc)	Input Register	Read Only	+aa.aa	N/A	0.00	10.00	N/A	N/A		
30067	OA_Enthalpy	Outdoor Air Enthalpy	Input Register	Read Only	+AA.A	N/A	-99.9	99.9	N/A	N/A		
30068	ReturnEnthalpy	Return Air Enthalpy	Input Register	Read Only	+AA.A	N/A	-99.9	99.9	N/A	N/A		
30069	SupplyDewpoint_Setpoint	Supply Dewpoint Set Point	Input Register	Read Only	+AA.A	55.0	5.0	85.0	N/A	N/A		
30070	DuctPress_PropBand	Duct Pressure Proportional Gain	Input Register	Read Only	+A.AAA	0.250	0.001	9.999	N/A	N/A		
30071	ReturnHumidify_PropBand	Return Humidify Proportional Gain	Input Register	Read Only	+AAA.A	1.0	-100.0	100.0	N/A	N/A		
30072	SpaceHumidify_PropBand	Space Humidify Proportional Gain	Input Register	Read Only	+AAA.A	1.0	-100.0	100.0	N/A	N/A		
30073	ReturnDehum_PropBand	Return Dehumidification Proportional Gain	Input Register	Read Only	+AAA.A	1.0	-100.0	100.0	N/A	N/A		
30074	HumidifierCurrent	Humidifier Operating Current	Input Register	Read Only	aaa.a	0.0	0.0	99.9	N/A	N/A		
30075	SteamFlowRate	Humidifier Steam Flow Rate	Input Register	Read Only	aaa.a	0.0	-999.9	999.9	N/A	N/A		
30076	HeatPumpDemand	Heat Pump Demand	Input Register	Read Only	aaa.a	0.0	0.0	100.0	N/A	N/A		
30077	Evaporator_1_Temperature	Evaporator 1 Temperature	Input Register	Read Only	aaa.a	0.0	-999.9	999.9	N/A	N/A		
30078	Evaporator_2_Temperature	Evaporator 2 Temperature	Input Register	Read Only	aaa.a	0.0	-999.9	999.9	N/A	N/A		
30079	EvaporatorTemperature	Evaporator Temperature	Input Register	Read Only	aaa.a	0.0	-999.9	999.9	N/A	N/A		
30080	WarmupTimeRemain	Morning Warm-Up Time Remaining	Input Register	Read Only					N/A	N/A		
30082	CooldownTimeRemain	Morning Cool-Down Time Remaining	Input Register	Read Only					N/A	N/A		
30084	UnoccMode_Status	Unoccupied Mode of Operation	Input Register	Read Only	N/A	0	0	6	0	Unoccupied Mode - OFF		
									1	Unoccupied Cooling ON		
									2	Unoccupied Heating ON		
									3	Unoccupied Dehumidification ON		
									4	Unoccupied Humidification ON		
30085	Compressor_1_Status	Compressor 1 Status	Input Register	Read Only	N/A	0	0	5	0	Compressor 1 - OFF		
									1	Compressor 1 - High Pressure		
									2	Compressor 1 - Low Pressure		
									3	Compressor 1 - In Delay		
									4	Compressor 1 - ON		
									5	Compressor 1 - Heat Pump Mode ON		
30086	Compressor_2_Status	Compressor 2 Status	Input Register	Read Only	N/A	0	0	5	0	Compressor 2 - OFF		
									1	Compressor 2 - High Pressure		
									2	Compressor 2 - Low Pressure		
									3	Compressor 2 - In Delay		
									4	Compressor 2 - ON		
									5	Compressor 2 - Heat Pump Mode ON		
30087	Compressor_3_Status	Compressor 3 Status	Input Register	Read Only	N/A	0	0	5	0	Compressor 3 - OFF		
									1	Compressor 3 - High Pressure		
									2	Compressor 3 - Low Pressure		
									3	Compressor 3 - In Delay		
									4	Compressor 3 - ON		
									5	Compressor 3 - Heat Pump Mode ON		

30088	Compressor_4_Status	Compressor 4 Status	Input Register	Read Only	N/A	0	0	5	0	Compressor 4 - OFF		
									1	Compressor 4 - High Pressure		
									2	Compressor 4 - Low Pressure		
									3	Compressor 4 - In Delay		
									4	Compressor 4 - ON		
									5	Compressor 4 - Heat Pump Mode ON		
30089	DigitalCompressor_1_Status	Digital Compressor 1 Status	Input Register	Read Only	N/A	0	0	6	0	Compressor 1 - OFF		
									1	Compressor 1 - High Pressure		
									2	Compressor 1 - Low Pressure		
									3	Compressor 1 - In Delay		
									4	Compressor 1 - Compressor Module Alarm		
									5	Compressor 1 - ON		
30090	DigitalCompressor_2_Status	Digital Compressor 2 Status	Input Register	Read Only	N/A	0	0	6	0	Compressor 2 - OFF		
									1	Compressor 2 - High Pressure		
									2	Compressor 2 - Low Pressure		
									3	Compressor 2 - In Delay		
									4	Compressor 2 - Compressor Module Alarm		
									5	Compressor 2 - ON		
30091	DigitalCompressor_3_Status	Digital Compressor 3 Status	Input Register	Read Only	N/A	0	0	6	0	Compressor 3 - OFF		
									1	Compressor 3 - High Pressure		
									2	Compressor 3 - Low Pressure		
									3	Compressor 3 - In Delay		
									4	Compressor 3 - Compressor Module Alarm		
									5	Compressor 3 - ON		
30092	DigitalCompressor_4_Status	Digital Compressor 4 Status	Input Register	Read Only	N/A	0	0	6	0	Compressor 4 - OFF		
									1	Compressor 4 - High Pressure		
									2	Compressor 4 - Low Pressure		
									3	Compressor 4 - In Delay		
									4	Compressor 4 - Compressor Module Alarm		
									5	Compressor 4 - ON		
30093	VariableCompressor_1_Status	Variable Compressor 1 Status	Input Register	Read Only	N/A	0	0	6	0	Compressor 1 - OFF		
									1	Compressor 1 - High Pressure		
									2	Compressor 1 - Low Pressure		
									3	Compressor 1 - In Delay		
									4	Compressor 1 - Compressor Module Alarm		
									5	Compressor 1 - ON		
30094	VariableCompressor_2_Status	Variable Compressor 2 Status	Input Register	Read Only	N/A	0	0	6	0	Compressor 2 - OFF		
									1	Compressor 2 - High Pressure		
									2	Compressor 2 - Low Pressure		
									3	Compressor 2 - In Delay		
									4	Compressor 2 - Compressor Module Alarm		
									5	Compressor 2 - ON		
30095	SystemStatus	System Status	Input Register	Read Only	N/A	0	0	23	0	Unit OFF		
									1	System Stand-By		
									2	Unit ON		
									3	Unoccupied		
									4	Unocc Cool ON		
									5	Unocc Heat ON		
									6	Unocc Dehumidify ON		
									7	Unocc Humidify ON		
									8	Warm Up - Heating ON		
									9	Cool Down - Cooling ON		
									10	Setback Cooling ON		
									11	Setback Heating ON		
									12	Setback Dehumidify ON		
									13	Setback Humidify ON		
									14	Occupied		

									15	Unoccupied Override ON		
									16	Compressors ON		
									17	Heaters ON		
									18	Dehumidify ON		
									19	Dehumidify & Reheat ON		
									20	Humidifier ON		
									21	Airside Economizer ON		
									22	Water Economizer Valve ON		
									23	Chilled Water Valve ON		
30096	HumidifierStatus	Humidifier Status	Input Register	Read Only	N/A	0	0	11	0	No Steam Production		
									1	Updating Set Characteristics		
									2	Filling Water		
									3	Steam Evaporation		
									4	Draining due to Foaming		
									5	Draining Water		
									6	Drain for Production		
									7	Drain - Prolonged Inactivity		
									8	Complete Drain Requested		
									9	Restart Filling After Alarm		
									10	Pre-Cleaning Cylinder		
									11	Periodic Drain Request		
30097	OutdoorDamper_Delay	Outdoor Air Damper Delay	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30099	HumidifierConductivity	Humidifier Water Conductivity	Input Register	Read Only	iii	0	0	999	N/A	N/A		
30100	BMS_SoftwareVersion	Software Version	Input Register	Read Only	iiiiii	N/A	N/A	N/A	N/A	N/A		
30102	Compressor_1_StartDelay	Compressor 1 Start Delay	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30104	Compressor_2_StartDelay	Compressor 2 Start Delay	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30106	Compressor_3_StartDelay	Compressor 3 Start Delay	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30108	Compressor_4_StartDelay	Compressor 4 Start Delay	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30110	Comp_1_MinRUN	Compressor 1 Minimum Run Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30112	Comp_2_MinRUN	Compressor 2 Minimum Run Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30114	Comp_3_MinRUN	Compressor 3 Minimum Run Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30116	Comp_4_MinRUN	Compressor 4 Minimum Run Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30118	Comp_1_MinOFF	Compressor 1 Minimum OFF Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30120	Comp_2_MinOFF	Compressor 2 Minimum OFF Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30122	Comp_3_MinOFF	Compressor 3 Minimum OFF Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30124	Comp_4_MinOFF	Compressor 4 Minimum OFF Time	Input Register	Read Only	iii	N/A	0	999	N/A	N/A		
30126	Hour	Present Hour	Input Register	Read Only	ii	N/A	0	23	N/A	N/A		
30127	Minute	Present Minute	Input Register	Read Only	ii	N/A	0	59	N/A	N/A		
30128	Month	Present Month	Input Register	Read Only	ii	N/A	1	12	N/A	N/A		
30129	Day	Present Day	Input Register	Read Only	ii	N/A	1	31	N/A	N/A		
30130	Year	Present Year	Input Register	Read Only	ii	N/A	0	99	N/A	N/A		
30131	DayOfWeek	Day of the Week	Input Register	Read Only	i	N/A	1	7	N/A	N/A		
30132	Airflow_CFM	Airflow CFM	Input Register	Read Only	iiiiii	0	0	50000	N/A	N/A		
Holding Registers												
40001	ReturnCool_Setpoint	Return Cooling Set Point	Holding Register	Read/Write	+AA.AA	73.00	50.00	99.00	N/A	N/A		
40002	ReturnCool_PropBand	Return Cooling Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	30.00	N/A	N/A		
40003	ReturnCool_DeathBand	Return Cooling Dead Band	Holding Register	Read/Write	+AA.AA	1.00	0.00	20.00	N/A	N/A		
40004	ReturnHeat_Setpoint	Return Heating Set Point	Holding Register	Read/Write	+AA.AA	68.00	50.00	99.00	N/A	N/A		
40005	ReturnHeat_PropBand	Return Heating Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	40.00	N/A	N/A		
40006	ReturnHeat_DeathBand	Return Heating Dead Band	Holding Register	Read/Write	+AA.AA	1.00	0.00	20.00	N/A	N/A		
40007	ReturnTemp_Setpoint	Return Temperature Set Point	Holding Register	Read/Write	+AA.AA	72.00	50.0	99.0	N/A	N/A		
40008	ReturnTemp_PropBand	Return Temperature Proportional Band	Holding Register	Read/Write	+AA.AA	2.00	0.50	40.00	N/A	N/A		
40009	ReturnTemp_DeathBand	Return Temperature Dead Band	Holding Register	Read/Write	+AA.AA	1.00	0.00	20.00	N/A	N/A		
40010	SpaceCool_Setpoint	Space Cooling Set Point	Holding Register	Read/Write	+AA.AA	73.00	50.00	99.00	N/A	N/A		
40011	SpaceCool_PropBand	Space Cooling Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	30.00	N/A	N/A		
40012	SpaceCool_DeathBand	Space Cooling Dead Band	Holding Register	Read/Write	+AA.AA	1.00	0.00	20.00	N/A	N/A		
40013	SpaceHeat_Setpoint	Space Heating Set Point	Holding Register	Read/Write	+AA.AA	68.00	50.00	99.00	N/A	N/A		
40014	SpaceHeat_PropBand	Space Heating Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	40.00	N/A	N/A		
40015	SpaceHeat_DeathBand	Space Heating Dead Band	Holding Register	Read/Write	+AA.AA	1.00	0.00	20.00	N/A	N/A		
40016	SpaceTemp_Setpoint	Space Temperature Set Point	Holding Register	Read/Write	+AA.AA	73.00	50.00	99.00	N/A	N/A		
40017	SpaceTemp_PropBand	Space Temperature Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	30.00	N/A	N/A		
40018	SpaceTemp_DeathBand	Space Temperature Dead Band	Holding Register	Read/Write	+AA.AA	1.00	0.00	20.00	N/A	N/A		

40019	SupplyCool_Setpoint	Supply Temperature Cooling Set Point	Holding Register	Read/Write	+AAA.A	55.00	45.00	99.00	N/A	N/A		
40020	SupplyCool_PropBand	Supply Temperature Proportional Gain	Holding Register	Read/Write	+AA.A	1.00	0.00	30.00	N/A	N/A		
40021	SupplyCool_DeADBnd	Supply Cooling Dead Band	Holding Register	Read/Write	+AA.A	0.00	0.00	20.00	N/A	N/A		
40022	SupplyHeat_Setpoint	Supply Heating Set Point	Holding Register	Read/Write	+AAA.A	50.00	30.00	140.00	N/A	N/A		
40023	SupplyHeat_PropBand	Supply Heating Proportional Gain	Holding Register	Read/Write	+AAA.A	1.00	0.00	30.00	N/A	N/A		
40024	SupplyHeat_DeADBnd	Supply Heating Dead Band	Holding Register	Read/Write	+AAA.A	0.00	0.00	20.00	N/A	N/A		
40025	DuctPressure_Setpoint	Duct Pressure Set Point	Holding Register	Read/Write	+A.AA	0.00	0.00	3.00	N/A	N/A		
40026	ReturnDehumidify_Setpoint	Return Dehumidification Set Point	Holding Register	Read/Write	+AA.AA	55.00	20.00	80.00	N/A	N/A		
40027	ReturnDehum_PropBand	Return Dehumidification Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	40.00	N/A	N/A		
40028	ReturnDehum_DeADBnd	Return Dehumidification Dead Band	Holding Register	Read/Write	+AA.AA	0.00	0.00	20.00	N/A	N/A		
40029	ReturnHumidify_Setpoint	Return Humidify Set Point	Holding Register	Read/Write	+AA.AA	50.00	20.00	80.00	N/A	N/A		
40030	ReturnHumidify_DeADBnd	Return Humidify Dead Band	Holding Register	Read/Write	+AA.AA	0.00	0.00	20.00	N/A	N/A		
40031	ReturnHumidity_Setpoint	Return Humidity Set Point	Holding Register	Read/Write	+AA.AA	50.00	20.00	80.00	N/A	N/A		
40032	ReturnHumidity_PropBand	Return Humidity Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	40.00	N/A	N/A		
40033	ReturnHumidity_DeADBnd	Return Humidity Dead Band	Holding Register	Read/Write	+AA.AA	0.00	0.00	20.00	N/A	N/A		
40034	SpaceDehumidify_Setpoint	Return Dehumidify Set Point	Holding Register	Read/Write	+AA.AA	55.00	20.00	80.00	N/A	N/A		
40035	SpaceDehum_PropBand	Space Dehumidification Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	40.00	N/A	N/A		
40036	SpaceDehum_DeADBnd	Space Dehumidification Dead Band	Holding Register	Read/Write	+AA.AA	0.00	0.00	20.00	N/A	N/A		
40037	SpaceHumidify_Setpoint	Space Humidify Set Point	Holding Register	Read/Write	+AA.AA	50.00	20.00	80.00	N/A	N/A		
40038	SpaceHumidify_DeADBnd	Space Humidify Dead Band	Holding Register	Read/Write	+AA.AA	0.00	0.00	20.00	N/A	N/A		
40039	SpaceHumidity_Setpoint	Space Humidity Set Point	Holding Register	Read/Write	+AA.AA	50.00	20.00	80.00	N/A	N/A		
40040	SpaceHumidity_PropBand	Space Humidity Proportional Band	Holding Register	Read/Write	+AA.AA	5.00	0.50	40.00	N/A	N/A		
40041	SpaceHumidity_DeADBnd	Space Humidity Dead Band	Holding Register	Read/Write	+AA.AA	0.00	0.00	20.00	N/A	N/A		
40042	MixedAirTemp_Setpoint	Mixed Air Temperature Set Point	Holding Register	Read/Write	+AA.A	55.0	45.0	75.0	N/A	N/A		
40043	MixedAirTemp_PropBand	Mixed Air Temperature Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40044	MixedAirTemp_DeADBnd	Mixed Air Temperature Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40045	SetbackCool_Setpoint	Setback Cooling Set Point	Holding Register	Read/Write	+AA.A	80.0	50.0	95.0	N/A	N/A		
40046	SetbackCool_PropBand	Setback Cooling Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40047	SetbackCool_DeADBnd	Setback Cooling Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40048	SetbackHeat_Setpoint	Setback Heating Set Point	Holding Register	Read/Write	+AA.A	60.0	50.0	95.0	N/A	N/A		
40049	SetbackHeat_PropBand	Setback Heating Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40050	SetbackHeat_DeADBnd	Setback Heating Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40051	SetbackDehum_Setpoint	Setback Dehumidify Set Point	Holding Register	Read/Write	+AA.A	55.0	35.0	85.0	N/A	N/A		
40052	SetbackDehum_PropBand	Setback Dehumidify Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40053	SetbackDehum_DeADBnd	Setback Dehumidify Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40054	SetbackHum_Setpoint	Setback Humidify Set Point	Holding Register	Read/Write	+AA.A	40.0	35.0	85.0	N/A	N/A		
40055	SetbackHum_PropBand	Setback Humidify Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40056	SetbackHum_DeADBnd	Unoccupied Humidify Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40057	UnoccCool_Setpoint	Unoccupied Cooling Set Point	Holding Register	Read/Write	+AA.A	80.0	50.0	95.0	N/A	N/A		
40058	UnoccCool_PropBand	Unoccupied Cooling Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40059	UnoccCool_DeADBnd	Unoccupied Cooling Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40060	UnoccHeat_Setpoint	Unoccupied Heating Set Point	Holding Register	Read/Write	+AA.A	60.0	50.0	95.0	N/A	N/A		
40061	UnoccHeat_PropBand	Unoccupied Heating Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40062	UnoccHeat_DeADBnd	Unoccupied Heating Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40063	UnoccDehum_Setpoint	Unoccupied Dehumidify Set Point	Holding Register	Read/Write	+AA.A	55.0	35.0	85.0	N/A	N/A		
40064	UnoccDehum_PropBand	Unoccupied Dehumidify Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40065	UnoccDehum_DeADBnd	Unoccupied Dehumidify Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40066	UnoccHum_Setpoint	Unoccupied Humidify Set Point	Holding Register	Read/Write	+AA.A	40.0	35.0	85.0	N/A	N/A		
40067	UnoccHum_PropBand	Unoccupied Humidify Proportional Band	Holding Register	Read/Write	+AA.A	5.0	0.5	40.0	N/A	N/A		
40068	UnoccHum_DeADBnd	Unoccupied Humidify Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40069	MorningWarmup_Setpoint	Morning Warm-Up Set Point	Holding Register	Read/Write	+AA.A	80.0	50.0	95.0	N/A	N/A		
40070	MorningWarmup_PropBand	Morning Warm-Up Proportional Band	Holding Register	Read/Write	+AA.A	10.0	0.5	40.0	N/A	N/A		
40071	MorningWarmup_DeADBnd	Morning Warm-Up Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40072	MorningCoolDown_Setpoint	Morning Cool-Down Set Point	Holding Register	Read/Write	+AA.A	80.0	50.0	95.0	N/A	N/A		
40073	MorningCoolDown_PropBand	Morning Cool-Down Proportional Band	Holding Register	Read/Write	+AA.A	10.0	0.5	40.0	N/A	N/A		
40074	MorningCoolDown_DeADBnd	Morning Cool-Down Dead Band	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40075	DigComps_StartDemand	Digital Compressor Start Demand	Holding Register	Read/Write	+AA.A	70.0	50.0	90.0	N/A	N/A		
40076	DigComps_StopDemand	Digital Compressor Stop/End Demand	Holding Register	Read/Write	+AA.A	10.0	0.5	40.0	N/A	N/A		
40077	PercentDemand_ChangeUpdate	Compressor Demand - Output to Update	Holding Register	Read/Write	+AA.A	0.0	0.0	20.0	N/A	N/A		
40078	DigCompMinDemand	Digital Compressor Minimum Operating Demand	Holding Register	Read/Write	+AA.A	20.0	20.0	60.0	N/A	N/A		
40079	LowComp_Demand	Low Demand Threshold to Start Oil Cycle Timer	Holding Register	Read/Write	+AA.A	40.0	30.0	70.0	N/A	N/A		
40080	LowOilSpeed_DemandReset	Low Demand Threshold to Stop/Reset Oil Cycle Timer	Holding Register	Read/Write	+AA.A	45.0	40.0	80.0	N/A	N/A		
40081	OutdoorTemperature_BMS	Outdoor Temperature by BMS	Holding Register	Read/Write	+AAA.A	130.0	-999.9	999.9	N/A	N/A		

40082	OutdoorHumidity_BMS	Outdoor Humidity by BMS	Holding Register	Read/Write	+AAA.A	50.0	-999.9	999.9	N/A	N/A		
40083	OutdoorTemperature_Setpoint	Outdoor Temperature Set Point (Economizer)	Holding Register	Read/Write	+AAA.A	55.0	40.0	85.0	N/A	N/A		
40084	OutdoorTemperature_PropBand	Outdoor Temperature Proporationl Band (Economizer)	Holding Register	Read/Write	+AAA.A	5.0	1.0	40.0	N/A	N/A		
40085	Reheat_Setpoint	Reheat Set Point	Holding Register	Read/Write	+AAA.A	68.0	0.0	120.0	N/A	N/A		
40086	Reheat_DeadBand	Reheat Dead Band	Holding Register	Read/Write	+AAA.A	1.0	0.0	20.0	N/A	N/A		
40087	ReheatTemp_PropBand	Reheat Proportional Band	Holding Register	Read/Write	+AAA.A	2.0	1.0	30.0	N/A	N/A		
40088	SupplyDewpoint_DeadBand	Supply Dew Point Dead Band	Holding Register	Read/Write	+AAA.A	0.5	0.0	5.0	N/A	N/A		
40089	VAV_BoxTemperatureAvg	Average Temperature All VAV Boxes	Holding Register	Read/Write	AAA.A	0.0	0.0	999.9	N/A	N/A		
40090	BMS_ModeSelection	BMS Mode Input Selector	Holding Register	Read/Write	N/A	0	0	7	0	BMS - Mode Disabled/OFF		
									1	BMS - Unit OFF		
									2	BMS - Morning Warmup Mode		
									3	BMS - Morning CoolDown Mode		
									4	BMS - Set-Back Mode		
									5	BMS - Unoccupied		
									6	BMS - Occupied		
									7	BMS - Emergency Stop		
40091	Reheat_By	Reheat By	Holding Register	Read/Write	N/A	1	0	2	0	Space Temperature		
									1	Supply Temperature		
									2	Return Temperature		
40092	UnitStartDelay	Unit Start Delay	Holding Register	Read/Write	III	15	5	180	N/A	N/A		
40093	BlowerModeStart_Delay	Blower Mode Start Delay	Holding Register	Read/Write	III	60	30	180	N/A	N/A		
40095	CompMinRUN	Compressor Minimum Run Time	Holding Register	Read/Write	III	120	60	600	N/A	N/A		
40096	CompMinOFF	Compressor Minimum OFF Time	Holding Register	Read/Write	III	300	90	900	N/A	N/A		
40098	TimeBetweenCompressors	Time Between Compressor Stages	Holding Register	Read/Write	III	300	30	600	N/A	N/A		
40099	HGFlushOilRecovery_Delay	Hot Gas Flush/Oil Recovery Time	Holding Register	Read/Write	III	300	30	600	N/A	N/A		
40100	LowOilDelayTime	Low Compressor Demand Oil Cycle Start Delay	Holding Register	Read/Write	III	6	2	8	N/A	N/A		
40101	CompressorUpate_Delay	Digital Compressor Output Update Delay	Holding Register	Read/Write	III	10	5	60	N/A	N/A		
40102	NewHour	Write New Hour	Holding Register	Read/Write	II	N/A	0	24	N/A	N/A		
40103	NewMinute	Write New Minute	Holding Register	Read/Write	II	N/A	0	59	N/A	N/A		
40104	NewMonth	Write New Month	Holding Register	Read/Write	II	N/A	1	12	N/A	N/A		
40105	NewDay	Write New Day of Month	Holding Register	Read/Write	II	N/A	1	31	N/A	N/A		
40106	MON_StartHour	Monday Occupied Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40107	MON_StartMin	Monday Occupied Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40108	MON_EndHour	Monday Occupied End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40109	MON_EndMin	Monday Occupied End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40110	TUE_StartHour	Tuesday Occupied Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40111	TUE_StartMin	Tuesday Occupied Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40112	TUE_EndHour	Tuesday Occupied End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40113	TUE_EndMin	Tuesday Occupied End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40114	WED_StartHour	Wednesday Occupied Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40115	WED_StartMin	Wednesday Occupied Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40116	WED_EndHour	Wednesday Occupied End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40117	WED_EndMin	Wednesday Occupied End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40118	THU_StartHour	Thursday Occupied Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40119	THU_StartMin	Thursday Occupied Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40120	THU_EndHour	Thursday Occupied End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40121	THU_EndMin	Thursday Occupied End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40122	FRI_StartHour	Friday Occupied Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40123	FRI_StartMin	Friday Occupied Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40124	FRI_EndHour	Friday Occupied End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40125	FRI_EndMin	Friday Occupied End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40126	SAT_StartHour	Saturday Occupied Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40127	SAT_StartMin	Saturday Occupied Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40128	SAT_EndHour	Saturday Occupied End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40129	SAT_EndMin	Saturday Occupied End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40130	SUN_StartHour	Sunday Occupied Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40131	SUN_StartMin	Sunday Occupied Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40132	SUN_EndHour	Sunday Occupied End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40133	SUN_EndMin	Sunday Occupied End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40134	MON_NSB_StartHour	Monday Setback Start Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40135	MON_NSB_StartMin	Monday Setback Start Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		
40136	MON_NSB_EndHour	Monday Setback End Hour	Holding Register	Read/Write	II	0	0	23	N/A	N/A		
40137	MON_NSB_EndMin	Monday Setback End Minute	Holding Register	Read/Write	II	0	0	59	N/A	N/A		

40138	TUE_NSB_StartHour	Tuesday Setback Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40139	TUE_NSB_StartMin	Tuesday Setback Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40140	TUE_NSB_EndHour	Tuesday Setback End Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40141	TUE_NSB_EndMin	Tuesday Setback End Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40142	WED_NSB_StartHour	Wednesday Setback Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40143	WED_NSB_StartMin	Wednesday Setback Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40144	WED_NSB_EndHour	Wednesday Setback End Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40145	WED_NSB_EndMin	Wednesday Setback End Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40146	THU_NSB_StartHour	Thursday Setback Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40147	THU_NSB_StartMin	Thursday Setback Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40148	THU_NSB_EndHour	Thursday Setback End Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40149	THU_NSB_EndMin	Thursday Setback End Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40150	FRI_NSB_StartHour	Friday Setback Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40151	FRI_NSB_StartMin	Friday Setback Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40152	FRI_NSB_EndHour	Friday Setback End Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40153	FRI_NSB_EndMin	Friday Setback End Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40154	SAT_NSB_StartHour	Saturday Setback Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40155	SAT_NSB_StartMin	Saturday Setback Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40156	SAT_NSB_EndHour	Saturday Setback End Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40157	SAT_NSB_EndMin	Saturday Setback End Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40158	SUN_NSB_StartHour	Sunday Setback Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40159	SUN_NSB_StartMin	Sunday Setback Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40160	SUN_NSB_EndHour	Sunday Setback End Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40161	SUN_NSB_EndMin	Sunday Setback End Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40162	MON_MW_StartHour	Monday Morning Warm-Up Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40163	MON_MW_StartMin	Monday Morning Warm-Up Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40164	TUE_MW_StartHour	Tuesday Morning Warm-Up Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40165	TUE_MW_StartMin	Tuesday Morning Warm-Up Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40166	WED_MW_StartHour	Wednesday Morning Warm-Up Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40167	WED_MW_StartMin	Wednesday Morning Warm-Up Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40168	THU_MW_StartHour	Thursday Morning Warm-Up Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40169	THU_MW_StartMin	Thursday Morning Warm-Up Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40170	FRI_MW_StartHour	Friday Morning Warm-Up Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40171	FRI_MW_StartMin	Friday Morning Warm-Up Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40172	SAT_MW_StartHour	Saturday Morning Warm-Up Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40173	SAT_MW_StartMin	Saturday Morning Warm-Up Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40174	SUN_MW_StartHour	Sunday Morning Warm-Up Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40175	SUN_MW_StartMin	Sunday Morning Warm-Up Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40176	MON_CD_StartHour	Monday Morning Cool-Down Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40177	MON_CD_StartMin	Monday Morning Cool-Down Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40178	TUE_CD_StartHour	Tuesday Morning Cool-Down Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40179	TUE_CD_StartMin	Tuesday Morning Cool-Down Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40180	WED_CD_StartHour	Wednesday Morning Cool-Down Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40181	WED_CD_StartMin	Wednesday Morning Cool-Down Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40182	THU_CD_StartHour	Thursday Morning Cool-Down Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40183	THU_CD_StartMin	Thursday Morning Cool-Down Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40184	FRI_CD_StartHour	Friday Morning Cool-Down Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40185	FRI_CD_StartMin	Friday Morning Cool-Down Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40186	SAT_CD_StartHour	Saturday Morning Cool-Down Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40187	SAT_CD_StartMin	Saturday Morning Cool-Down Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40188	SUN_CD_StartHour	Sunday Morning Cool-Down Start Hour	Holding Register	Read/Write		0	0	23	N/A	N/A		
40189	SUN_CD_StartMin	Sunday Morning Cool-Down Start Minute	Holding Register	Read/Write		0	0	59	N/A	N/A		
40190	WarmupTime	Morning Warm-Up Time (minutes)	Holding Register	Read/Write					N/A	N/A		
40191	CoolDownTime	Morning Cool-Down Time (minutes)	Holding Register	Read/Write					N/A	N/A		
40192	ReturnTemp_Ti	Return Temperature Integration Time	Holding Register	Read/Write					N/A	N/A		
40193	SpaceTemp_Ti	Space Temperature Integration Time	Holding Register	Read/Write					N/A	N/A		
40194	ReturnCool_Ti	Return Cool Integration Time	Holding Register	Read/Write					N/A	N/A		
40195	SpaceCool_Ti	Space Cool Integration Time	Holding Register	Read/Write					N/A	N/A		
40196	ReturnHeat_Ti	Return Heat Integration Time	Holding Register	Read/Write					N/A	N/A		
40197	SpaceHeat_Ti	Space Heating Integration Time	Holding Register	Read/Write					N/A	N/A		
40198	ReturnHumidify_Ti	Return Humidification Integration Time	Holding Register	Read/Write					N/A	N/A		
40199	SpaceHumidify_Ti	Space Humidification Integration Time	Holding Register	Read/Write					N/A	N/A		
40200	ReturnTemp_Td	Return Temperature Derivative Time	Holding Register	Read/Write					N/A	N/A		

40201	SpaceTemp_Td	Space Temperature Derivative Time	Holding Register	Read/Write					N/A	N/A		
40202	ReturnCool_Td	Return Cooling Derivative Time	Holding Register	Read/Write					N/A	N/A		
40203	SpaceCool_Td	Space Cooling Derivative Time	Holding Register	Read/Write					N/A	N/A		
40204	ReturnHeat_Td	Return Heating Derivative Time	Holding Register	Read/Write					N/A	N/A		
40205	SpaceHeat_Td	Space Heating Derivative Time	Holding Register	Read/Write					N/A	N/A		
40206	SupplyCool_Ti	Supply Cooling Integration Time (seconds)	Holding Register	Read/Write	III	120	0	999	N/A	N/A		
40207	SupplyHeat_Ti	Supply Heating Integration Time (seconds)	Holding Register	Read/Write	III	0	0	999	N/A	N/A		
40208	SupplyCool_Td	Supply Cooling Derivative Time (seconds)	Holding Register	Read/Write	III	120	0	999	N/A	N/A		
40209	SupplyHeat_Td	Supply Heating Derivative Time (seconds)	Holding Register	Read/Write	III	0	0	999	N/A	N/A		
40210	Airflow_CFM_Setpoint	Airflow CFM Set Point	Holding Register	Read/Write	IIIII	0	0	50000	N/A	N/A		