

MODBUS POINTS LIST Unit Type SP For Program Version 1.x.x

* Logical Address	Description	Input Registers 3x	Data Format	Comments	
00001 LSW	Overtice Breezeway A	Read Only	32-bit	Linear from 0.0 to 050.0 aris / 0.0 to 47.0 has	
00002 MSW	Suction Pressure A	Decil Octo	Float	Linear from 0.0 to 250.0 psig / 0.0 to 17.3 bar.	
00003 LSW 00004 MSW	Discharge Pressure A	Read Only	32-bit Float	Linear from 0.0 to 650.0 psig / 0.0 to 45.0 bar.	
00005 LSW		Read Only	32-bit		
00006 MSW	Zone Air Relative Humidity		Float	Linear from 0.0 to 100.0 %.	
00007 LSW 00008 MSW	Zone Air Temperature	Read Only	32-bit Float	Linear from 40.0°E to 140.0°E / 40.0°C to 60.0°C	
00008 WSW	Zone Air Temperature	Read Only	32-bit	Linear from -40.0°F to 140.0°F / -40.0°C to 60.0°C.	
00003 ESW	Supply Air Temperature	ricad Offig	Float	Linear from -40.0°F to 140.0°F / -40.0°C to 60.0°C.	
00011 LSW		Read Only	32-bit		
00012 MSW	Suction Pressure B	,	Float	Linear from 0.0 to 250.0 psig / 0.0 to 17.3 bar.	
00013 LSW		Read Only	32-bit		
00014 MSW	Discharge Pressure B		Float	Linear from 0.0 to 650.0 psig / 0.0 to 45.0 bar.	
00015 LSW		Read Only	32-bit		
00016 MSW	Pool 1 Inlet Temperature	D 101	Float	Linear from -40.0°F to 140.0°F / -40.0°C to 60.0°C.	
00017 LSW 00018 MSW	Pool 2 Inlet Temperature	Read Only	32-bit Float	Linear from -40.0°F to 140.0°F / -40.0°C to 60.0°C.	
00018 WSW	Fool 2 Illiet Temperature	Read Only	32-bit	Einear from -40.0 F to 140.0 F / -40.0 C to 60.0 C.	
00019 LSW	Pool 1 Outlet Temperature	Read Offig	Float	Linear from -40.0°F to 140.0°F / -40.0°C to 60.0°C.	
00021 LSW	. co. : canet :cmporatare	Read Only	32-bit	2	
00022 MSW	Pool 2 Outlet Temperature		Float	Linear from -40.0°F to 140.0°F / -40.0°C to 60.0°C.	
00023 LSW	·	Read Only	32-bit		
00024 MSW	Supply Blower DP		Float	Linear from 0.0 to 25.0 "wc.	
00025 LSW		Read Only	32-bit		
00026 MSW	Exhaust Blower DP		Float	Linear from 0.0 to 25.0 "wc.	
00027 LSW 00028 MSW	Evaporator DP	Read Only	32-bit Float	Linear from 0.0 to 2.0 "wc.	
00029 LSW	Evaporator Di	Read Only	32-bit	Linear Horri 0.0 to 2.0 WC.	
00023 ESW	Evaporator A DP	ricad Offig	Float	Linear from 0.0 to 2.0 "wc.	
00031 LSW		Read Only	32-bit		
00032 MSW	OA DP	,	Float	Linear from 0.0 to 2.0 "wc.	
00033 LSW		Read Only	32-bit		
00034 MSW	Zone DP		Float	Linear from -1.0 to 1.0 "wc.	
00035 LSW	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Read Only	32-bit	1. (0.000	
00036 MSW	VOC Sensor	Deed Only	Float	Linear from 0 to 2000 ppm.	
00037 LSW 00038 MSW	OA RH	Read Only	32-bit Float	Linear from 0.0 to 100.0 %.	
00039 LSW	0,7,7,7,7	Read Only	32-bit	Emodification of the rest of the second of t	
00040 MSW	OA Temperature	11000 01119	Float	Linear from -40.0°F to 140.0°F / -40.0°C to 60.0°C.	
00041 LSW	Evaporator Bypass Damper	Read Only	32-bit		
00042 MSW	Command	-	Float	Linear from 0.0 to 100.0 %.	
00043 LSW		Read Only	32-bit		
00044 MSW	OA Damper Command	D / G /	Float	Linear from 0.0 to 100.0 %.	
00045 LSW	Air Hoot Commercial	Read Only	32-bit	Linear from 0.0 to 100.0 %	
00046 MSW 00047 LSW	Air Heat Command	Read Only	Float 32-bit	Linear from 0.0 to 100.0 %.	
00047 LSW 00048 MSW	Supply Blower CFM	Read Only	3∠-bit Float	Linear from 0.0 to 100.0 %.	
00049 LSW		Read Only	32-bit		
00050 MSW	Exhaust Blower CFM	l local offiny	Float	Linear from 0.0 to 100.0 %.	
00051 LSW		Read Only	32-bit		
00052 MSW	Low Exhaust Speed	Í	Float	Linear from 0.0 to 100.0 %.	
00050			16-bit		
00053	Unit Status	Read Only	Integer	For code definitions, see the table below.	



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* Logical Address	Description	Holding Registers 4x	Data Format	Comments	
00001 LSW	Zone Relative Humidity	Read/	32-bit		
00002 MSW	Setpoint	Write	Float	Settable from 0.0 to 100.0 %.	
00003 LSW	Zone Air Temperature	Read/	32-bit		
00004 MSW	Setpoint	Write	Float	Settable from 65.0°F to 99.0°F / 18.3°C to 37.2°C.	
00005 LSW	Pool 1 Water Temperature	Read/	32-bit		
00006 MSW	Setpoint	Write	Float	Settable from 70.0°F to 104.0 °F / 21.1°C to 40.0°C.	
00007 LSW	Pool 2 Water Temperature	Read/	32-bit		
00008 MSW	Setpoint	Write	Float	Settable from 70.0°F to 104.0 °F / 21.1°C to 40.0°C.	

* Logical Address	Description	Coils 0x	Data Format	Comments	
		Read/		Write 1 for Network Occupancy Request. Write 0 for Network	
00001	Network Occupied	Write	Boolean	Unoccupied request.	
		Read/			
00002	Network Event	Write	Boolean	Write 1 for Event Mode. Write 0 for Normal Mode.	
		Read/			
00003	Network Max OA	Write	Boolean	Write 1 for Max OA Mode. Write 0 for Normal Mode.	
		Read/			
00004	Network Purge	Write	Boolean	Write 1 for Purge Mode. Write 0 for Normal Mode.	
		Read/			
00005	Network Off	Write	Boolean	Write 1 to turn Unit off. Write 0 for turn Unit On.	
		Read/		Write 1 when Roof or Wall is Open. Write 0 when Roof is	
00006	Network Roof Lockout	Write	Boolean	Closed.	
		Read/			
00007	Remote Reset	Write	Boolean	Write 1 to Remotely Reset the Unit.	

* Logical Address	Description	Discrete Inputs 1x	Data Format	Comments	
		Read Only			
00001	Supply Blower On		Boolean	State of Supply Blower. 0 = Off, 1 = On.	
00000	Factorial Blasses On	Read Only	Deelee	Otata of Faharrat Planara O. Off 4. Oa	
00002	Exhaust Blower On	D 101	Boolean	State of Exhaust Blower. 0 = Off, 1 = On.	
00003	Compressor A On	Read Only	Boolean	State of Compressor A. 0 = Off, 1 = On.	
00004	Compressor B On	Read Only	Boolean	State of Compressor B. 0 = Off, 1 = On.	
	·	Read Only			
00005	Airflow		Boolean	State of Airflow. 0 = Off, 1 = On.	
00006	Air Heating Required	Read Only	Boolean	State of Air Heat Requirement. 0 = Off, 1 = On.	
	Auxiliary Heat Required	Read Only	200.00	Clare Ciril Front Responsibility Ciril	
00007	Pool 1		Boolean	State of Auxiliary Pool 1 Heat Requirement. 0 = Off, 1 = On.	
	Auxiliary Heat Required	Read Only			
80000	Pool 2		Boolean	State of Auxiliary Pool 2 Heat Requirement. 0 = Off, 1 = On.	
00009	Pool 1 Flow Switch	Read Only	Boolean	State of Flow Switch. 0 = Off, 1 = On.	
		Read Only		·	
00010	Pool 2 Flow Switch		Boolean	State of Flow Switch. 0 = Off, 1 = On.	
00011	Tower 1 Flow Switch	Read Only	Boolean	State of Flow Switch. 0 = Off, 1 = On.	
		Read Only		,	
00012	Tower 2 Flow Switch		Boolean	State of Flow Switch. 0 = Off, 1 = On.	
		Read Only			
00013	Occupied	<u> </u>	Boolean	Occupied Status, 0 = Un-occupied, 1 = Occupied.	
00014	Event Mode	Read Only	Boolean	Event Mode, 0 = Normal, 1 = Event On.	



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* Logical Address	Description	Discrete Inputs 1x	Data Format	Comments	
00015	Maximum Outdoor Air Mode	Read Only	Boolean	Max OA Mode, 0 = Normal, 1 = Max OA On.	
00016	Economizer On	Read Only	Boolean	Economizer Status, 0 = Normal, 1 = Economizer Running.	
00017	Purge Mode	Read Only	Boolean	Purge Mode, 0 = Normal, 1 = Purge On.	
00018	Remote Off	Read Only	Boolean	Remote Off Status, 0 = Unit Off, 1 = Normal.	
00019	Suction Pressure A Alarm	Read Only	Boolean	Very Low Suction Pressure A, 0 = Normal, 1 = Alarm.	
00020	Suction Pressure B Alarm	Read Only	Boolean	Very Low Suction Pressure B, 0 = Normal, 1 = Alarm.	
00021	Multiple Suction Pressure A Alarms	Read Only	Boolean	Multiple Low Suction Pressure A, 0 = Normal, 1 = Alarm.	
00022	Multiple Suction Pressure B Alarms	Read Only	Boolean	Multiple Low Suction Pressure B, 0 = Normal, 1 = Alarm.	
00023	Discharge Pressure A Alarm	Read Only	Boolean	High Discharge Pressure A, 0 = Normal, 1 = Alarm.	
00024	Discharge Pressure B Alarm	Read Only	Boolean	High Discharge Pressure B, 0 = Normal, 1 = Alarm.	
00025	Zone Sensor Alarm	Read Only	Boolean	Communication Fault, 0 = Normal, 1 = Alarm.	
00026	Outdoor Air Sensor Alarm	Read Only	Boolean	Communication Fault, 0 = Normal, 1 = Alarm.	
00027	Supply Blower Overload	Read Only	Boolean	Supply Blower Overload, 0 = Normal, 1 = Alarm.	
00028	Exhaust Blower Overload	Read Only	Boolean	Exhaust Blower Overload, 0 = Normal, 1 = Alarm.	
00029	Condenser Fan Overload	Read Only	Boolean	Condenser Fan Overload, 0 = Normal, 1 = Alarm.	
00030	Compressor A Overload	Read Only	Boolean	Compressor A Overload, 0 = Normal, 1 = Alarm.	
00031	Compressor B Overload	Read Only	Boolean	Compressor B Overload, 0 = Normal, 1 = Alarm.	
00032	Smoke / General Alarm	Read Only	Boolean	Smoke Alarm, 0 = Normal, 1 = Alarm.	
00033	Low Voltage Alarm	Read Only	Boolean	Voltage Monitor Alarm, 0 = Normal, 1 = Alarm.	
00034	Freeze Protection Alarm	Read Only	Boolean	Freeze Protection Alarm, 0 = Normal, 1 = Alarm.	
00035	Low Exhaust Blower Overload	Read Only	Boolean	Low Exhaust Blower Overload, 0 = Normal, 1 = Alarm.	
00036	Filter Alarm	Read Only		Filter Alarm, 0 = Normal, 1 = Alarm.	
00037	Motor 2 Overload	Read Only	Boolean	Motor 2 Overload, 0 = Normal, 1 = Alarm.	
00038	Motor 3 Overload	Read Only	Boolean	Motor 3 Overload, 0 = Normal, 1 = Alarm.	
00039	Motor 4 Overload	Read Only	Boolean	Motor 4 Overload, 0 = Normal, 1 = Alarm.	
00040	Motor 8 Overload	Read Only	Boolean	Motor 8 Overload, 0 = Normal, 1 = Alarm.	
00041	VFD 106 Overload	Read Only	Boolean	VFD 106 Overload, 0 = Normal, 1 = Alarm.	
00042	VFD 142 Overload	Read Only	Boolean	VFD 142 Overload, 0 = Normal, 1 = Alarm.	
00043	EVD Offline Alarm	Read Only	Boolean	EVD Driver Offline, 0 = Normal, 1 = Alarm.	
00044	EVD Low Superheat A Alarm	Read Only	Boolean	EVD Low Superheat A, 0 = Normal, 1 = Alarm.	

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* Logical Address	Description	Discrete Inputs 1x	Data Format	Comments
00045	EVD Low Superheat B Alarm	Read Only	Boolean	EVD Low Superheat B, 0 = Normal, 1 = Alarm.
00046	EVD LOP A Alarm	Read Only	Boolean	EVD LOP A, 0 = Normal, 1 = Alarm.
00047	EVD LOP B Alarm	Read Only	Boolean	EVD LOP B, 0 = Normal, 1 = Alarm.
00048	EVD MOP A Alarm	Read Only	Boolean	EVD MOP A, 0 = Normal, 1 = Alarm.
00049	EVD MOP B Alarm	Read Only	Boolean	EVD MLOP B, 0 = Normal, 1 = Alarm.
00050	EVD Valve A Alarm	Read Only	Boolean	EVD Valve A, 0 = Normal, 1 = Alarm.
00051	EVD Valve B Alarm	Read Only	Boolean	EVD Valve B, 0 = Normal, 1 = Alarm.
00052	EVD Low Suct A Alarm	Read Only	Boolean	EVD Low Suct A, 0 = Normal, 1 = Alarm.
00053	EVD Low Suct B Alarm	Read Only	Boolean	EVD Low Suct B, 0 = Normal, 1 = Alarm.
00054	EVD High T Cond Alarm	Read Only	Boolean	EVD High T Cond, 0 = Normal, 1 = Alarm.
00055	EVD S1 Alarm	Read Only	Boolean	EVD S1, 0 = Normal, 1 = Alarm.
00056	EVD S2 Alarm	Read Only	Boolean	EVD S2, 0 = Normal, 1 = Alarm.
00057	EVD S3 Alarm	Read Only	Boolean	EVD S3, 0 = Normal, 1 = Alarm.
00058	EVD S4 Alarm	Read Only	Boolean	EVD S4, 0 = Normal, 1 = Alarm.
00059	EVD Battery Alarm	Read Only	Boolean	EVD Battery, 0 = Normal, 1 = Alarm.
00060	EVD EEPROM Alarm	Read Only	Boolean	EVD EEPROM, 0 = Normal, 1 = Alarm.
00061	EVD Incomplete Closing Alarm	Read Only	Boolean	EVD Incomplete Closing, 0 = Normal, 1 = Alarm.
00062	EVD Emergency Closing Alarm	Read Only	Boolean	EVD Emergency Closing, 0 = Normal, 1 = Alarm.
00063	EVD Firmware Alarm	Read Only	Boolean	EVD Firmware, 0 = Normal, 1 = Alarm.
00064	EVD Config Error	Read Only	Boolean	EVD Config Error, 0 = Normal, 1 = Alarm.
00065	EVD Retain Alarm	Read Only	Boolean	EVD Retain, 0 = Normal, 1 = Alarm.
00066	EVD Retain Error	Read Only	Boolean	EVD Retain Error, 0 = Normal, 1 = Alarm.
00067	Offline c.PCOe 2	Read Only	Boolean	Expansion Module Communication Fault, 0 = Normal, 1 = Alarm.
00068	Offline c.PCOe 3	Read Only	Boolean	Expansion Module Communication Fault, 0 = Normal, 1 = Alarm.
00069	Offline c.PCOe 4	Read Only	Boolean	Expansion Module Communication Fault, 0 = Normal, 1 = Alarm.
00070	Offline c.PCOe 5	Read Only	Boolean	Expansion Module Communication Fault, 0 = Normal, 1 = Alarm.
00071	High Condensate Level Alarm	Read Only	Boolean	Drain pan level high, 0 = Normal, 1 = Alarm.
00072	Active Alarm	Read Only	Boolean	Any Alarm is Active, 0 = Normal, 1 = Alarm.

^{*} All coil and holding register addresses are in PLC style base 0 notation. If base 1 notation is required, add 1 to the logical address number.



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CODE	UNIT STATUS
0	Unit Off /Zone Satisfied
1	Heating Required
2	Cooling Required
3	Dehumidification Required
4	Dehum and Heating Required
5	Dehum and Cooling Required
6	Energy Recovery
7	Low Air Flow Condition
8	Low Suction Pressure Condition
9	EEV Initialization

Revision (Rev.) History						
Rev.	Description	Date	Initials	ECN#		
00	Initial Release	6/16/2020	MTW	EC-10586		