

Document Name

MODBUS POINTS LIST Unit Type Standard SA Dehumidifiers Program Version 2.x.x

* Coil Address	Description	Modbus Function	R/W Status	Comments	
			Read		
00002	Supply Fan	1	Only	Confirmation of Supply Fan, 0 = Off, 1 = On.	
			Read	0 " " " " " " " " " " " " " " " " " " "	
00003	Exhaust Fan	1	Only	Confirmation of Exhaust Fan, 0 = Off, 1 = On.	
00004	0	_	Read	0	
00004	Compressor A	1	Only	Confirmation of Compressor A, 0 = Off, 1 = On.	
00005	Compressor B	1	Read Only	Confirmation of Compressor B, 0 = Off, 1 = On.	
00003	Compressor B		Read	Commitmation of Compressor B, 0 = On, 1 = On.	
00006	Air Flow	1	Only	Confirmation of Air Flow. 0 = No Flow, 1 = Flow.	
			Read	·	
00007	Alarm Active	1	Only	Confirmation of Alarm Status. 0 = Alarm, 1 = Normal.	
			Read		
80000	Auxiliary Air Heat Required	1	Only	Confirmation of Aux. Heat, 0 = Not Required, 1 = Required.	
00000	Auxiliary Pool 1 Heat	_	Read	Oce from office of Associated Oc. Not Bernined A. Bernined	
00009	Required Auxiliary Pool 2 Heat	1	Only	Confirmation of Aux. Heat, 0 = Not Required, 1 = Required.	
00010	Required	1	Read Only	Confirmation of Aux. Heat, 0 = Not Required, 1 = Required.	
00010	Required	'	Read	Commitmation of Aux. Fleat, 0 = Not Required, 1 = Required.	
00011	Pool1 Water Flow	1	Only	Confirmation of Pool Water Flow. 0 = No Flow, 1 = Flow.	
			Read		
00012	Pool2 Water Flow	1	Only	Confirmation of Pool Water Flow. 0 = No Flow, 1 = Flow.	
			Read		
00013	Tower 1 Water Flow	1	Only	Confirmation of Tower Water Flow. 0 = No Flow, 1 = Flow.	
			Read		
00014	Tower 2 Water Flow	1	Only	Confirmation of Tower Water Flow. 0 = No Flow, 1 = Flow.	
00015	Occupied	1	Read Only	Occupied Status 0 - Un accupied 1 - Occupied	
00015	Occupied	!	Read	Occupied Status. 0 = Un-occupied, 1 = Occupied.	
00016	Event Mode	1	Only	Event Mode Status. 0 = Normal, 1 = Event.	
00010	Event mede	•	Read	Event mede etates: 6 = Normal, 1 = Event.	
00017	Unit Off	1	Only	Confirmation of Unit Status. 0 = Unit On, 1 = Unit Off.	
			Read	·	
00019	Purge Mode	1	Only	Purge Mode Status. 0 = Normal, 1 = Purging.	
	Network Occupancy		Read/		
00010	Command	1/5	Write	Write 1 to Occupy, 0 to Un-Occupy.	
00000	Notice of Event Command	1/F	Read/	Write 1 for Event Made, O for Normal Made	
00020	Network Event Command	1/5	Write	Write 1 for Event Mode, 0 for Normal Mode.	
00021	Network Purge Command	1/5	Read/ Write	Write 1 for Purge mode, 0 for Normal Mode.	
00021	110tWork Fungo Command	1/0	Read/	Time Fiel Fulgo mode, o for Hormal Wode.	
00022	Network Unit Off Command	1/5	Write	Write 1 to set Unit to Off, 0 to set Unit to On.	
			Read/	·	
00023	Remote Reset	1/5	Write	Write 1 to Reset. 0 is set after a program scan.	
			Read/		
00024	Network Max OA Command	1/5	Write	Write 1 to Force Max OA condition.	
00005	Doof / Wall Switch	1/5	Read/	Cot 1 when reef or well is onen. Cot to 0 when closed	
00025	Roof / Wall Switch	1/5	Write	Set 1 when roof or wall is open. Set to 0 when closed.	

* Holding Register Address	Description	Modbus Function	R/W Status	Comments	
00002	Custian Programs	2	Read Only	Linear from 0.0 to 250.0 pair, 0.0 to 47.2 DAD or 0 to 4720 kDs	
00002	Suction Pressure	3	- ,	Linear from 0.0 to 250.0 psig, 0.0 to 17.2 BAR or 0 to 1720 kPa.	
00003	Discharge Pressure	3	Read Only	Linear from 0.0 to 650.0 psig, 0.0 to 44.8 BAR or 0 to 4480 kPa.	
00004	Zone Air Relative Humidity	3	Read Only	Linear from 0.0 to 100.0 %.	
00005	Zone Air Temperature	3	Read Only	Linear from -42.0 to 137.0 °F or -41.1 to 58.3 °C.	
00006	Supply Air Temperature	3	Read Only	Linear from -58.0 to 212.0 °F or -50.0 to 100.0 °C.	



Document Name

MODBUS POINTS LIST

Unit Type

Standard SA Dehumidifiers Program Version 2.x.x

* Holding Register Address	Description	Modbus Function	R/W Status	Comments **	
			Read		
00007	Suction Pressure Circuit B	3	Only	Linear from 0.0 to 250.0 psig, 0.0 to 17.2 BAR or 0 to 1720 kPa.	
80000	Discharge Pressure Circuit B	3	Read Only	Linear from 0.0 to 650.0 psig, 0.0 to 44.8 BAR or 0 to 4480 kPa.	
00009	Pool 1 Water Temperature	3	Read Only	Linear from -42.0 to 137.0 °F or -41.1 to 58.3 °C.	
00010	Pool 2 Water Temperature	3	Read Only	Linear from -42.0 to 137.0 °F or -41.1 to 58.3 °C.	
00011	Evap. Bypass Damper Command	3	Read Only	Linear from 0.0 to 100.0 %.	
00012	Outside Air Damper Command	3	Read Only	Linear from 0.0 to 100.0 %.	
00013	Auxiliary Air Heat Command	3	Read Only	Linear from 0.0 to 100.0 %.	
00014	Exhaust Blower Command	3	Read Only	Linear from 0.0 to 100.0 %.	
00015	Low Exhaust Blower Command	3	Read Only	Linear from 0.0 to 100.0 %.	
00016	Zone Air RH Setpoint	3/6	Read/ Write	Settable from 0.0 to 100.0 %.	
00017	Zone Air Temperature Setpoint	3/6	Read/ Write	Settable from 65.0 to 99.9 °F or 18.3 to 37.7 °C.	
00018	Pool 1 Temperature Setpoint	3/6	Read/ Write	Settable from 70.0 to 104.0 °F or 21.1 to 40.0 °C.	
00019	Pool 2 Temperature Setpoint	3/6	Read/ Write	Settable from 70.0 to 104.0 °F or 21.1 to 40.0 °C.	
00020	Outdoor Air Relative Humidity	3	Read Only	Linear from 0.0 to 100.0 %.	
00021	Outdoor Air Temperature	3	Read Only	Linear from -42.0 to 137.0 °F or -41.1 to 58.3 °C.	

* Holding Register Address	Description	Modbus Function	R/W Status	Comments **
00129	Unit Status	3	Read Only	0=Satisfied/Off, 1=Heating, 2=Cooling, 3=Dehumidifying, 4=Dehum/Heat, 5=Dehum/Cool.
00130	Alarm Code	3	Read Only	Alarm code. See table at end of list.
00131	Supply Air Pressure Drop	3	Read Only	Linear from 0 to 2000 "wc, in thousandths, or 0-498 Pascal.
00132	Evaporator Air Press. Drop	3	Read Only	Linear from 0 to 2000 "wc, in thousandths, or 0-498 Pascal.
00133	Outdoor Air Pressure Drop	3	Read Only	Linear from 0 to 2000 "wc, in thousandths, or 0-498 Pascal.
00134	Zone Air Pressure Drop	3	Read Only	Linear from 0 to 2000 "wc, in thousandths, or 0-498 Pascal.
00135	VOC Sensor	3	Read Only	Linear from 0 to 2000 ppm of volatile organic compounds.

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

^{**} Refrigerant pressures can be set for psig, bar or kilopascal. When set for psig or bar, one decimal place is provided. For example, a reading of 2345 would be 234.5 psig. When set for kilopascal, a reading of 345 would be 345 kPa. Temperatures can be set for °F or °C with one decimal place provided as well. For example, when set for °F, a reading of 726 would be 72.6 °F. Air pressure can be set for In. Water Column or Pascal. The reading is in thousandths only when In. Water Column is used. For example, a reading of 1234 would be 1.234 "wc. When set for Pascal, a reading of 123 would be 123 Pa.



Document Name

MODBUS POINTS LIST Unit Type Standard SA Dehumidifiers Program Version 2.x.x

CODE	ALARM DESCRIPTION
1	Low Suction Pressure A
2	Low Suction Pressure B
3	High Discharge Pressure A
4	High Discharge Pressure B
5	Supply Air Sensor Failure
6	Zone Air Sensor Failure
7	Supply Fan Overload
8	Compressor Circuit A Overload
9	Compressor Circuit B Overload
10	System Shutdown
11	Low Supply Air Temperature
12	Exhaust Fan Overload
13	Low Voltage Alarm
14	Low Air Flow Alarm
15	Freeze 'Stat Alarm
16	Low Exhaust Fan Overload

Revision (Rev.) History							
Rev.	Description	Date	Initials	ECN#			
00	Initial Release	10/31/2014	MTW	2401			
01	Added Coil 00025, Roof or Wall Switch.	12/19/2016	MTW	10200			