



## Modbus Register Map: InRow® ACRD301 - ACRH301

Part number: 990-5987A

**Notes:**

1. 16-bit registers (INT16, UINT16, ENUM) are transmitted MSB first (i.e., big-endian).
2. INT32 and UINT32 are most-significant word in n\*0, least significant word in n+1 (i.e. big-endian).
3. Reads can be performed with function codes 3, or 4. Writes can be performed with function code 16, or with function code 6 to registers with length 1.
4. Modbus serial RTU and Modbus over TCP is supported.
5. Signed numbers (INT16, INT32, ENUM) are twos-complement
6. Status bits are atomic within a single Modbus register. User should not look for consistency across multiple registers, only within a single register.
7. Strings are two characters per register, first character in high-order byte, second character in low-order byte. Printable ASCII only.
8. When writing an ASCII string the null terminator must be included.
9. Single-register reads of reserved or undefined registers will return an error. Block reads which begin with a valid register will not return an error but will return zeros for undefined registers.
10. Data Type column:
  - "INT16" = signed 16-bit integer,
  - "UINT16" = unsigned 16-bit integer,
  - "INT32" = signed 32-bit integer,
  - "UINT32" = unsigned 32-bit integer,
  - "ENUM" = signed 16-bit integer which maps to a defined list of states,
  - "ASCII" = the printable ASCII subset from 0x20 - 0x7E,
  - "STREAM" = raw data ranging from 0x00 - 0xFF.
11. "Absolute Starting Register Address" = 0 (the column heading used in this table) is equivalent to "Register 40001" in Modicon terminology, which is address zero when transmitted over the wire.
12. Accesses to items before data is available will result in an invalid address error.
13. Response Timeout Guide: A single register response is typically less than 100 ms; however, reading a large number of registers may take 2 seconds or more. If timeouts occur, reduce the number of registers in each request or increase the response timeout.

Modicon Standard Register Number	Absolute Register Number (Hex)	Absolute Register Number (Dec)	Data Point	R/W	Length	Data Type	Scale	Units	Valid Response
<b>System ID</b>									
400001	0x0000	0	Model Number	R	15	ASCII			
400016	0x000F	15	Serial Number	R	10	ASCII			
400026	0x0019	25	Firmware Revision	R	12	ASCII			
400038	0x0025	37	Hardware Revision	R	4	ASCII			
400042	0x0029	41	Manufacture Date	R	6	ASCII			
400048	0x002F	47	Development Firmware Revision	R	16	ASCII			
400064	0x003F	63	PIC 1 Firmware Revision	R	20	ASCII			
400084	0x0053	83	PIC 2 Firmware Revision	R	20	ASCII			
<b>Unit Control (Metric)</b>									
401001	0x03E8	1000	Unit	R	1	ENUM			0 = Off; 1 = On
401002	0x03E9	1001	Startup Delay	R	1	UINT16	0	sec	
401003	0x03EA	1002	Cooling Strategy	R	1	ENUM			0 = RACS; 1 = HACCS; 2 = INROW; 3 = CACS; 4 = Manual
401004	0x03EB	1003	Supply Air Setpoint	R	1	UINT16	1	C	
401005	0x03EC	1004	Cool Setpoint	R	1	UINT16	1	C	
401006	0x03ED	1005	Delta-T Setpoint	R	1	ENUM			0 = 10F/5.6C; 1 = 15F/8.3C; 2 = 20F/11.1C; 3 = 25F/13.9C; 4 = 30F/16.7C; 5 = 35F/19.4C; 6 = 40F/22.2C
401007	0x03EE	1006	Maximum Fan Speed	R	1	UINT16	1	%	
401008	0x03EF	1007	Manual IT Fan Speed	R	1	UINT16	1	%	
401009	0x03F0	1008	Unit Role Override	R	1	ENUM			0 = Automatic; 1 = Forced On
401010	0x03F1	1009	Idle on Leak Detect	R	1	ENUM			0 = No; 1 = Yes
401011	0x03F2	1010	Shutdown Input State	R	1	ENUM			0 = Open; 1 = Closed
401012	0x03F3	1011	Shutdown Input Present	R	1	ENUM			0 = No; 1 = Yes
401013	0x03F4	1012	Shutdown Input Normal State	R	1	ENUM			0 = Open; 1 = Closed
401014	0x03F5	1013	Protect On/Standby	R	1	ENUM			0 = Disable; 1 = Enable
401015	0x03F6	1014	Runtime Balancing Difference	R	1	UINT16	0	hr	
401016	0x03F7	1015	Switchover Handoff Time	R	1	UINT16	0	min	

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Unit Status (Metric)										
402001	0x07D0	2000	Mode	R	1	ENUM				0 = Unknown; 1 = Initializing; 2 = Off; 3 = Standby; 4 = Idle; 5 = Startup Delay; 6 = Active; 7 = Maintenance
402002	0x07D1	2001	Supply Temperature	R	1	INT16	1	C		
402003	0x07D2	2002	Maximum Rack Inlet Temperature	R	1	INT16	1	C		
402004	0x07D3	2003	Return Temperature	R	1	INT16	1	C		
402005	0x07D4	2004	Room Temperature	R	1	INT16	1	C		
402006	0x07D5	2005	Humidity	R	1	INT16	1	%RH		
402007	0x07D6	2006	Dew Point Temperature	R	1	INT16	1	C		
402008	0x07D7	2007	Airflow	R	1	UINT16	0	L/s		
402009	0x07D8	2008	Air Filter Pressure	R	1	INT16	0	Pa		
402010	0x07D9	2009	Cool Demand	R	1	UINT16	1	kW		
402011	0x07DA	2010	Cool Output	R	1	UINT16	1	kW		
402012	0x07DB	2011	Upper Supply Temperature	R	1	INT16	1	C		
402013	0x07DC	2012	Lower Supply Temperature	R	1	INT16	1	C		
402014	0x07DD	2013	Upper Return Temperature	R	1	INT16	1	C		
402015	0x07DE	2014	Lower Return Temperature	R	1	INT16	1	C		
402016	0x07DF	2015	Rack Inlet Temperature 1	R	1	INT16	1	C		
402017	0x07E0	2016	Rack Inlet Temperature 2	R	1	INT16	1	C		
402018	0x07E1	2017	Rack Inlet Temperature 3	R	1	INT16	1	C		
402019	0x07E2	2018	Rack Inlet Temperature 4	R	1	INT16	1	C		
402020	0x07E3	2019	Suction Pressure	R	1	UINT16	1	bar		
402021	0x07E4	2020	Discharge Pressure	R	1	UINT16	1	bar		
402022	0x07E5	2021	Suction Evap. Temp.	R	1	INT16	1	C		
402023	0x07E6	2022	Discharge Cond. Temp.	R	1	INT16	1	C		
402024	0x07E7	2023	Inlet Evap Coil Temperature	R	1	INT16	1	C		
402025	0x07E8	2024	Outlet Evap Coil Temperature	R	1	INT16	1	C		
402026	0x07E9	2025	Superheat	R	1	INT16	1	C		
402027	0x07EA	2026	Fan 1	R	1	UINT16	0	rpm		
402028	0x07EB	2027	Fan 2	R	1	UINT16	0	rpm		
402029	0x07EC	2028	Fan 3	R	1	UINT16	0	rpm		
402030	0x07ED	2029	Fan 4	R	1	UINT16	0	rpm		
402031	0x07EE	2030	Fan 5	R	1	UINT16	0	rpm		
402032	0x07EF	2031	Fan 6	R	1	UINT16	0	rpm		
402033	0x07F0	2032	Fan 7	R	1	UINT16	0	rpm		
402034	0x07F1	2033	Fan 8	R	1	UINT16	0	rpm		
402035	0x07F2	2034	Compressor Speed	R	1	UINT16	1	Hz		
402036	0x07F3	2035	EEV Position	R	1	UINT16	1	%		
402037	0x07F4	2036	Condenser Fan Speed	R	1	UINT16	1	%		
402038	0x07F5	2037	Power Feed Type	R	1	ENUM				0 = Single; 1 = Dual
402039	0x07F6	2038	Fan Power Supply 1	R	1	UINT16	3	A		
402040	0x07F7	2039	Fan Power Supply 2	R	1	UINT16	3	A		
402041	0x07F8	2040	Condenser Fan Power	R	1	UINT16	0	W		
402042	0x07F9	2041	Compressor Power	R	1	UINT16	2	kW		
402043	0x07FA	2042	Shutdown Input State	R	1	ENUM				0 = Open; 1 = Closed
402044	0x07FB	2043	Alarm Relay 1	R	1	ENUM				0 = Open; 1 = Closed

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402045	0x07FC	2044	Alarm Relay 2	R	1	ENUM			0 = Open; 1 = Closed
402046	0x07FD	2045	Alarm Relay 3	R	1	ENUM			0 = Open; 1 = Closed
402047	0x07FE	2046	Alarm Relay 4	R	1	ENUM			0 = Open; 1 = Closed
402048	0x07FF	2047	Circuit 1 Chilled Water Inlet Temperature	R	1	INT16	1	C	
402049	0x0800	2048	Engery Save Choke Valve Position	R	1	UINT16	1	%	
402050	0x0801	2049	Bypass Valve Position	R	1	UINT16	1	%	
402051	0x0802	2050	Dry Cooler fan Speed	R	1	UINT16	1	%	
<b>Group Status (Metric)</b>									
403001	0x0BB8	3000	Group Minimum Rack Temperature	R	1	INT16	1	C	
403002	0x0BB9	3001	Group Maximum Rack Temperature	R	1	INT16	1	C	
403003	0x0BBA	3002	Total Airflow	R	1	UINT16	0	L/s	
403004	0x0BBB	3003	Total Air Side Cooling Demand	R	1	UINT16	1	kW	
403005	0x0BBC	3004	Total Sensible Cooling Power	R	1	UINT16	1	kW	
403006	0x0BBD	3005	Active Flow Control Status	R	1	ENUM			0 = Under; 1 = Okay; 2 = Over; 3 = NA; 4 = NA
<b>Unit Control (US Customary)</b>									
404001	0x0FA0	4000	Unit	R	1	ENUM			0 = Off; 1 = On
404002	0x0FA1	4001	Startup Delay	R	1	UINT16	0	sec	
404003	0x0FA2	4002	Cooling Strategy	R	1	ENUM			0 = RACS; 1 = HACS; 2 = INROW; 3 = CACS; 4 = Manual
404004	0x0FA3	4003	Supply Air Setpoint	R	1	UINT16	1	F	
404005	0x0FA4	4004	Cool Setpoint	R	1	UINT16	1	F	
404006	0x0FA5	4005	Delta-T Setpoint	R	1	ENUM			0 = 10F/5.6C; 1 = 15F/8.3C; 2 = 20F/11.1C; 3 = 25F/13.9C; 4 = 30F/16.7C; 5 = 35F/19.4C; 6 = 40F/22.2C
404007	0x0FA6	4006	Maximum Fan Speed	R	1	UINT16	1	%	
404008	0x0FA7	4007	Manual IT Fan Speed	R	1	UINT16	1	%	
404009	0x0FA8	4008	Unit Role Override	R	1	ENUM			0 = Automatic; 1 = Forced On
404010	0x0FA9	4009	Idle on Leak Detect	R	1	ENUM			0 = No; 1 = Yes
404011	0x0FAA	4010	Shutdown Input State	R	1	ENUM			0 = Open; 1 = Closed
404012	0x0FAB	4011	Shutdown Input Present	R	1	ENUM			0 = No; 1 = Yes
404013	0x0FAC	4012	Shutdown Input Normal State	R	1	ENUM			0 = Open; 1 = Closed
404014	0x0FAD	4013	Protect On/Standby	R	1	ENUM			0 = Disable; 1 = Enable
404015	0x0FAE	4014	Runtime Balancing Difference	R	1	UINT16	0	hr	
404016	0x0FAF	4015	Switchover Handoff Time	R	1	UINT16	0	min	
<b>Unit Status (US Customary)</b>									
405001	0x1388	5000	Mode	R	1	ENUM			0 = Unknown; 1 = Initializing; 2 = Off; 3 = Standby; 4 = Idle; 5 = Startup Delay; 6 = Active; 7 = Maintenance
405002	0x1389	5001	Supply Temperature	R	1	INT16	1	F	
405003	0x138A	5002	Maximum Rack Inlet Temperature	R	1	INT16	1	F	
405004	0x138B	5003	Return Temperature	R	1	INT16	1	F	
405005	0x138C	5004	Room Temperature	R	1	INT16	1	F	
405006	0x138D	5005	Humidity	R	1	INT16	1	%RH	
405007	0x138E	5006	Dew Point Temperature	R	1	INT16	1	F	
405008	0x138F	5007	Airflow	R	1	UINT16	0	CFM	
405009	0x1390	5008	Air Filter Pressure	R	1	INT16	2	inWC	
405010	0x1391	5009	Cool Demand	R	1	UINT16	1	kW	
405011	0x1392	5010	Cool Output	R	1	UINT16	1	kW	
405012	0x1393	5011	Upper Supply Temperature	R	1	INT16	1	F	

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405013	0x1394	5012	Lower Supply Temperature	R	1	INT16	1	F	
405014	0x1395	5013	Upper Return Temperature	R	1	INT16	1	F	
405015	0x1396	5014	Lower Return Temperature	R	1	INT16	1	F	
405016	0x1397	5015	Rack Inlet Temperature 1	R	1	INT16	1	F	
405017	0x1398	5016	Rack Inlet Temperature 2	R	1	INT16	1	F	
405018	0x1399	5017	Rack Inlet Temperature 3	R	1	INT16	1	F	
405019	0x139A	5018	Rack Inlet Temperature 4	R	1	INT16	1	F	
405020	0x139B	5019	Suction Pressure	R	1	UINT16	1	psi	
405021	0x139C	5020	Discharge Pressure	R	1	UINT16	1	psi	
405022	0x139D	5021	Suction Evap. Temp.	R	1	INT16	1	F	
405023	0x139E	5022	Discharge Cond. Temp.	R	1	INT16	1	F	
405024	0x139F	5023	Inlet Evap Coil Temperature	R	1	INT16	1	F	
405025	0x13A0	5024	Outlet Evap Coil Temperature	R	1	INT16	1	F	
405026	0x13A1	5025	Superheat	R	1	INT16	1	F	
405027	0x13A2	5026	Fan 1	R	1	UINT16	0	rpm	
405028	0x13A3	5027	Fan 2	R	1	UINT16	0	rpm	
405029	0x13A4	5028	Fan 3	R	1	UINT16	0	rpm	
405030	0x13A5	5029	Fan 4	R	1	UINT16	0	rpm	
405031	0x13A6	5030	Fan 5	R	1	UINT16	0	rpm	
405032	0x13A7	5031	Fan 6	R	1	UINT16	0	rpm	
405033	0x13A8	5032	Fan 7	R	1	UINT16	0	rpm	
405034	0x13A9	5033	Fan 8	R	1	UINT16	0	rpm	
405035	0x13AA	5034	Compressor Speed	R	1	UINT16	1	Hz	
405036	0x13AB	5035	EEV Position	R	1	UINT16	1	%	
405037	0x13AC	5036	Condenser Fan Speed	R	1	UINT16	1	%	
405038	0x13AD	5037	Power Feed Type	R	1	ENUM			0 = Single; 1 = Dual
405039	0x13AE	5038	Fan Power Supply 1	R	1	UINT16	3	A	
405040	0x13AF	5039	Fan Power Supply 2	R	1	UINT16	3	A	
405041	0x13B0	5040	Condenser Fan Power	R	1	UINT16	0	W	
405042	0x13B1	5041	Compressor Power	R	1	UINT16	2	kW	
405043	0x13B2	5042	Shutdown Input State	R	1	ENUM			0 = Open; 1 = Closed
405044	0x13B3	5043	Alarm Relay 1	R	1	ENUM			0 = Open; 1 = Closed
405045	0x13B4	5044	Alarm Relay 2	R	1	ENUM			0 = Open; 1 = Closed
405046	0x13B5	5045	Alarm Relay 3	R	1	ENUM			0 = Open; 1 = Closed
405047	0x13B6	5046	Alarm Relay 4	R	1	ENUM			0 = Open; 1 = Closed
405048	0x13B7	5047	Circuit 1 Chilled Water Inlet Temperature	R	1	INT16	1	F	
405049	0x13B8	5048	Engery Save Choke Valve Position	R	1	UINT16	1	%	
405050	0x13B9	5049	Bypass Valve Position	R	1	UINT16	1	%	
405051	0x13B10	5050	Dry Cooler fan Speed	R	1	UINT16	1	%	
<b>Group Status (US Customary)</b>									
406001	0x1770	6000	Group Minimum Rack Temperature	R	1	INT16	1	F	
406002	0x1771	6001	Group Maximum Rack Temperature	R	1	INT16	1	F	
406003	0x1772	6002	Total Airflow	R	1	UINT16	0	CFM	
406004	0x1773	6003	Total Air Side Cooling Demand	R	1	UINT16	1	kW	
406005	0x1774	6004	Total Sensible Cooling Power	R	1	UINT16	1	kW	
406006	0x1775	6005	Active Flow Control Status	R	1	ENUM			0 = Under; 1 = Okay; 2 = Over; 3 = NA; 4 = NA

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Run Hours									
407001	0x1B58	7000	Unit Run Hours	R	2	UINT32	0	hr	
407003	0x1B5A	7002	Air Filter Run Hours	R	2	UINT32	0	hr	
407005	0x1B5C	7004	Compressor Run Hours	R	2	UINT32	0	hr	
407007	0x1B5E	7006	Condenser Fan Run Hours	R	2	UINT32	0	hr	
407009	0x1B60	7008	Condensate Pump Run Hours	R	2	UINT32	0	hr	
407011	0x1B62	7010	Fan 1 Run Hours	R	2	UINT32	0	hr	
407013	0x1B64	7012	Fan 2 Run Hours	R	2	UINT32	0	hr	
407015	0x1B66	7014	Fan 3 Run Hours	R	2	UINT32	0	hr	
407017	0x1B68	7016	Fan 4 Run Hours	R	2	UINT32	0	hr	
407019	0x1B6A	7018	Fan 5 Run Hours	R	2	UINT32	0	hr	
407021	0x1B6C	7020	Fan 6 Run Hours	R	2	UINT32	0	hr	
407023	0x1B6E	7022	Fan 7 Run Hours	R	2	UINT32	0	hr	
407025	0x1B70	7024	Fan 8 Run Hours	R	2	UINT32	0	hr	
407027	0x1B72	7026	Humidifier Run Hours	R	2	UINT32	0	hr	
407029	0x1B74	7028	Heater 1 Run Hours	R	2	UINT32	0	hr	
407031	0x1B76	7030	Heater 2 Run Hours	R	2	UINT32	0	hr	
407033	0x1B78	7032	Dry Cooler Fan Run Hours	R	2	UINT32	0	hr	
Alarms									
408001	0x1F40	8000	Unexpected Number of Units in Group	R	1	ENUM			0 = Inactive; 1 = Active
408002	0x1F41	8001	Primary Power Source	R	1	ENUM			0 = Inactive; 1 = Active
408003	0x1F42	8002	Secondary Power Source	R	1	ENUM			0 = Inactive; 1 = Active
408004	0x1F43	8003	Output Relay 1	R	1	ENUM			0 = Inactive; 1 = Active
408005	0x1F44	8004	Output Relay 2	R	1	ENUM			0 = Inactive; 1 = Active
408006	0x1F45	8005	Output Relay 3	R	1	ENUM			0 = Inactive; 1 = Active
408007	0x1F46	8006	Output Relay 4	R	1	ENUM			0 = Inactive; 1 = Active
408008	0x1F47	8007	AFC Firmware Incompatibility Detected	R	1	ENUM			0 = Inactive; 1 = Active
408009	0x1F48	8008	PIC 1 Firmware Incompatibility Detected	R	1	ENUM			0 = Inactive; 1 = Active
408010	0x1F49	8009	PIC 2 Firmware Incompatibility Detected	R	1	ENUM			0 = Inactive; 1 = Active
408011	0x1F4A	8010	VFD Communication Error	R	1	ENUM			0 = Inactive; 1 = Active
408012	0x1F4B	8011	VFD Drive Initialization Error	R	1	ENUM			0 = Inactive; 1 = Active
408013	0x1F4C	8012	High Head Pressure	R	1	ENUM			0 = Inactive; 1 = Active
408014	0x1F4D	8013	VFD Persistent Trips	R	1	ENUM			0 = Inactive; 1 = Active
408015	0x1F4E	8014	VFD Power Card Temperature	R	1	ENUM			0 = Inactive; 1 = Active
408016	0x1F4F	8015	VFD Earth Fault	R	1	ENUM			0 = Inactive; 1 = Active
408017	0x1F50	8016	VFD Control Card Over Temperature	R	1	ENUM			0 = Inactive; 1 = Active
408018	0x1F51	8017	VFD Peak Over Current	R	1	ENUM			0 = Inactive; 1 = Active
408019	0x1F52	8018	VFD Torque Limit Exceeded	R	1	ENUM			0 = Inactive; 1 = Active
408020	0x1F53	8019	VFD Motor Thermistor Over Temperature	R	1	ENUM			0 = Inactive; 1 = Active
408021	0x1F54	8020	VFD Motor Over Temperature	R	1	ENUM			0 = Inactive; 1 = Active
408022	0x1F55	8021	VFD Current Overload	R	1	ENUM			0 = Inactive; 1 = Active
408023	0x1F56	8022	VFD DC Overvoltage	R	1	ENUM			0 = Inactive; 1 = Active
408024	0x1F57	8023	VFD Short Circuit	R	1	ENUM			0 = Inactive; 1 = Active
408025	0x1F58	8024	VFD Inrush Error	R	1	ENUM			0 = Inactive; 1 = Active
408026	0x1F59	8025	VFD Mains Phase Loss	R	1	ENUM			0 = Inactive; 1 = Active
408027	0x1F5A	8026	VFD Internal Error	R	1	ENUM			0 = Inactive; 1 = Active

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408028	0x1F5B	8027	VFD Motor Phase U Missing	R	1	ENUM		0 = Inactive; 1 = Active
408029	0x1F5C	8028	VFD Motor Phase V Missing	R	1	ENUM		0 = Inactive; 1 = Active
408030	0x1F5D	8029	VFD Motor Phase W Missing	R	1	ENUM		0 = Inactive; 1 = Active
408031	0x1F5E	8030	VFD Vd D1 Supply Low	R	1	ENUM		0 = Inactive; 1 = Active
408032	0x1F5F	8031	VFD Drive Initialized to Defaults	R	1	ENUM		0 = Inactive; 1 = Active
408033	0x1F60	8032	VFD Control Card Over Temperature Warning	R	1	ENUM		0 = Inactive; 1 = Active
408034	0x1F61	8033	VFD Current Overload Warning	R	1	ENUM		0 = Inactive; 1 = Active
408035	0x1F62	8034	VFD Undervoltage Warning	R	1	ENUM		0 = Inactive; 1 = Active
408036	0x1F63	8035	VFD DC Overvoltage Warning	R	1	ENUM		0 = Inactive; 1 = Active
408037	0x1F64	8036	VFD DC Link Voltage Low	R	1	ENUM		0 = Inactive; 1 = Active
408038	0x1F65	8037	VFD DC Link Voltage High	R	1	ENUM		0 = Inactive; 1 = Active
408039	0x1F66	8038	VFD Speed Not Within Limits	R	1	ENUM		0 = Inactive; 1 = Active
408040	0x1F67	8039	VFD Control Voltage Overloaded	R	1	ENUM		0 = Inactive; 1 = Active
408041	0x1F68	8040	VFD Current Limit Exceeded	R	1	ENUM		0 = Inactive; 1 = Active
408042	0x1F69	8041	Condenser Communication Error	R	1	ENUM		0 = Inactive; 1 = Active
408043	0x1F6A	8042	Condenser Fan Mains Over Voltage	R	1	ENUM		0 = Inactive; 1 = Active
408044	0x1F6B	8043	Condenser Fan Mains Under Voltage	R	1	ENUM		0 = Inactive; 1 = Active
408045	0x1F6C	8044	Condenser Fan DC Link Under Voltage	R	1	ENUM		0 = Inactive; 1 = Active
408046	0x1F6D	8045	Condenser Fan DC Link Over Voltage	R	1	ENUM		0 = Inactive; 1 = Active
408047	0x1F6E	8046	Condenser Fan Electronic Over Heated	R	1	ENUM		0 = Inactive; 1 = Active
408048	0x1F6F	8047	Condenser Fan Locked Motor	R	1	ENUM		0 = Inactive; 1 = Active
408049	0x1F70	8048	Condenser Fan Hall Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408050	0x1F71	8049	Condenser Fan Motor Overheated	R	1	ENUM		0 = Inactive; 1 = Active
408051	0x1F72	8050	Condenser Fan Bad	R	1	ENUM		0 = Inactive; 1 = Active
408052	0x1F73	8051	Condenser Fan Communication Error	R	1	ENUM		0 = Inactive; 1 = Active
408053	0x1F74	8052	Condenser Fan Power Module Overheated	R	1	ENUM		0 = Inactive; 1 = Active
408054	0x1F75	8053	Condenser Fan Phase Error	R	1	ENUM		0 = Inactive; 1 = Active
408055	0x1F76	8054	Condenser Fan Cable Break	R	1	ENUM		0 = Inactive; 1 = Active
408056	0x1F77	8055	Condenser Fan Low Speed	R	1	ENUM		0 = Inactive; 1 = Active
408057	0x1F78	8056	Condenser Fan Brake Operation	R	1	ENUM		0 = Inactive; 1 = Active
408058	0x1F79	8057	Condenser Fan DC Link Voltage Low	R	1	ENUM		0 = Inactive; 1 = Active
408059	0x1F7A	8058	Condenser Fan Electronics Temperature High	R	1	ENUM		0 = Inactive; 1 = Active
408060	0x1F7B	8059	Condenser Fan Motor Temperature High	R	1	ENUM		0 = Inactive; 1 = Active
408061	0x1F7C	8060	Low Coolant Temperature	R	1	ENUM		0 = Inactive; 1 = Active
408062	0x1F7D	8061	Condenser Fan Power Limitation	R	1	ENUM		0 = Inactive; 1 = Active
408063	0x1F7E	8062	Choke Valve Failed	R	1	ENUM		0 = Inactive; 1 = Active
408064	0x1F7F	8063	Condenser Fan Current Limitation	R	1	ENUM		0 = Inactive; 1 = Active
408065	0x1F80	8064	Upper Return Temperature Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408066	0x1F81	8065	Lower Return Temperature Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408067	0x1F82	8066	Upper Supply Temperature Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408068	0x1F83	8067	Lower Supply Temperature Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408069	0x1F84	8068	Outlet Evap Coil Temperature Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408070	0x1F85	8069	Inlet Evap Coil Temperature Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408071	0x1F86	8070	Room Humidity Sensor Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408072	0x1F87	8071	Suction Pressure Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408073	0x1F88	8072	Discharge Pressure Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active

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408074	0x1F89	8073	Air Filter Pressure Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408075	0x1F8A	8074	Unexpected Number of Rack Inlet Temperature Sensors Present	R	1	ENUM		0 = Inactive; 1 = Active
408076	0x1F8B	8075	Rack inlet temperature sensor error detected	R	1	ENUM		0 = Inactive; 1 = Active
408077	0x1F8C	8076	Unexpected Number of Leak Detectors Present	R	1	ENUM		0 = Inactive; 1 = Active
408078	0x1F8D	8077	Leak Detected	R	1	ENUM		0 = Inactive; 1 = Active
408079	0x1F8E	8078	Condensate Pan Full	R	1	ENUM		0 = Inactive; 1 = Active
408080	0x1F8F	8079	Condensate Pan Warning	R	1	ENUM		0 = Inactive; 1 = Active
408081	0x1F90	8080	Condensate Lower Float Error	R	1	ENUM		0 = Inactive; 1 = Active
408082	0x1F91	8081	Condensate Pump Error	R	1	ENUM		0 = Inactive; 1 = Active
408083	0x1F92	8082	Fan 1 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408084	0x1F93	8083	Fan 2 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408085	0x1F94	8084	Fan 3 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408086	0x1F95	8085	Fan 4 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408087	0x1F96	8086	Fan 5 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408088	0x1F97	8087	Fan 6 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408089	0x1F98	8088	Fan 7 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408090	0x1F99	8089	Fan 8 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408091	0x1F9A	8090	Input Voltage Not Configured	R	1	ENUM		0 = Inactive; 1 = Active
408092	0x1F9B	8091	Suction Pressure Too Low To Start	R	1	ENUM		0 = Inactive; 1 = Active
408093	0x1F9C	8092	Evap Coil Freeze Protection	R	1	ENUM		0 = Inactive; 1 = Active
408094	0x1F9D	8093	Low Suction Pressure	R	1	ENUM		0 = Inactive; 1 = Active
408095	0x1F9E	8094	High Head Pressure	R	1	ENUM		0 = Inactive; 1 = Active
408096	0x1F9F	8095	Low Superheat	R	1	ENUM		0 = Inactive; 1 = Active
408097	0x1FA0	8096	High Superheat	R	1	ENUM		0 = Inactive; 1 = Active
408098	0x1FA1	8097	Persistent Low Suction Pressure	R	1	ENUM		0 = Inactive; 1 = Active
408099	0x1FA2	8098	Persistent High Head Pressure	R	1	ENUM		0 = Inactive; 1 = Active
408100	0x1FA3	8099	Persistent High/Low Superheat	R	1	ENUM		0 = Inactive; 1 = Active
408101	0x1FA4	8100	Idle Due to Error	R	1	ENUM		0 = Inactive; 1 = Active
408102	0x1FA5	8101	High Supply Temperature	R	1	ENUM		0 = Inactive; 1 = Active
408103	0x1FA6	8102	High Return Temperature	R	1	ENUM		0 = Inactive; 1 = Active
408104	0x1FA7	8103	Rack Inlet High Temperature	R	1	ENUM		0 = Inactive; 1 = Active
408105	0x1FA8	8104	Low Humidity Threshold Exceeded	R	1	ENUM		0 = Inactive; 1 = Active
408106	0x1FA9	8105	High Humidity Threshold Exceeded	R	1	ENUM		0 = Inactive; 1 = Active
408107	0x1FAA	8106	Unit Run Hours Exceeded	R	1	ENUM		0 = Inactive; 1 = Active
408108	0x1FAB	8107	Air Filter Run Hours Exceeded	R	1	ENUM		0 = Inactive; 1 = Active
408109	0x1FAC	8108	EcoAisle Door Open	R	1	ENUM		0 = Inactive; 1 = Active
408110	0x1FAD	8109	Unexpected Number of Active Flow Controllers	R	1	ENUM		0 = Inactive; 1 = Active
408111	0x1FAE	8110	Insufficient Airflow	R	1	ENUM		0 = Inactive; 1 = Active
408112	0x1FAF	8111	Active Flow Controller Sensor Error	R	1	ENUM		0 = Inactive; 1 = Active
408113	0x1FB0	8112	Excessive Compressor Cycling Condition	R	1	ENUM		0 = Inactive; 1 = Active
408114	0x1FB1	8113	Off Due to Input Contact	R	1	ENUM		0 = Inactive; 1 = Active
408115	0x1FB2	8114	Smoke Detected	R	1	ENUM		0 = Inactive; 1 = Active
408116	0x1FB3	8115	Air Filter Clogged	R	1	ENUM		0 = Inactive; 1 = Active
408117	0x1FB4	8116	No Backup Units Available	R	1	ENUM		0 = Inactive; 1 = Active
408118	0x1FB5	8117	EXV Error	R	1	ENUM		0 = Inactive; 1 = Active

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408119	0x1FB6	8118	Evaporator Fan Power Supply 1 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408120	0x1FB7	8119	Evaporator Fan Power Supply 2 Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408121	0x1FB8	8120	Evaporator Fan Power Supply Error Detected	R	1	ENUM		0 = Inactive; 1 = Active
408122	0x1FB9	8121	HUMIDIFIER_COMMUNICATION_ERROR	R	1	ENUM		0 = Inactive; 1 = Active
408123	0x1FB10	8122	HUMIDIFIER_MN_CYLINDER_LIFE_EXPIRED	R	1	ENUM		0 = Inactive; 1 = Active
408124	0x1FB11	8123	HUMIDIFIER_EC_HIGH_CONDUCTIVITY	R	1	ENUM		0 = Inactive; 1 = Active
408125	0x1FB12	8124	HUMIDIFIER_E1_PARAMETERS_NOT_DOWNLOADED	R	1	ENUM		0 = Inactive; 1 = Active
408126	0x1FB13	8125	HUMIDIFIER_E0_PARAMETERS_NOT_OK	R	1	ENUM		0 = Inactive; 1 = Active
408127	0x1FB14	8126	HUMIDIFIER_EH_HIGH_CURRENT	R	1	ENUM		0 = Inactive; 1 = Active
408128	0x1FB15	8127	HUMIDIFIER_EP_LOW_PRODUCTION	R	1	ENUM		0 = Inactive; 1 = Active
408129	0x1FB16	8128	HUMIDIFIER_EU_FULL_CYLINDER	R	1	ENUM		0 = Inactive; 1 = Active
408130	0x1FB17	8129	HUMIDIFIER_EF_NO_SUPPLY_WATER	R	1	ENUM		0 = Inactive; 1 = Active
408131	0x1FB18	8130	HUMIDIFIER_ED_UNABLE_TO_DRAIN	R	1	ENUM		0 = Inactive; 1 = Active
408132	0x1FB19	8131	HUMIDIFIER_CY_CYLINDER_LIFE_NEARLY_EXPIRED	R	1	ENUM		0 = Inactive; 1 = Active
408133	0x1FB20	8132	HUMIDIFIER_EA_FOAM_DETECTED	R	1	ENUM		0 = Inactive; 1 = Active
408134	0x1FB21	8133	HUMIDIFIER_CP_EXCESSIVE_SCALING	R	1	ENUM		0 = Inactive; 1 = Active
408135	0x1FB22	8134	HUMIDIFIER_CL_CYLINDER_EXHAUSTED	R	1	ENUM		0 = Inactive; 1 = Active
408136	0x1FB23	8135	HUMIDIFIER_E2_BACKUP_MEMORY_FAILE	R	1	ENUM		0 = Inactive; 1 = Active
408137	0x1FB24	8136	CW Inlet 1 Temp Sensor Failed	R	1	ENUM		0 = Inactive; 1 = Active
<b>Modbus Counters</b>								
465519	0xFFEE	65518	CRC Errors	R	2	UINT32	0	
465521	0xFFFO	65520	RX Packets	R	2	UINT32	0	
465523	0xFFE2	65522	TX Packets	R	2	UINT32	0	
465525	0xFFE4	65524	Frame Errors	R	2	UINT32	0	
465527	0xFFE6	65526	Overrun Errors	R	2	UINT32	0	
465529	0xFFE8	65528	Parity Errors	R	2	UINT32	0	
465531	0xFFEA	65530	Rx 1.5 Errors	R	2	UINT32	0	
465533	0xFFEC	65532	Rx 3.5 Errors	R	2	UINT32	0	
465535	0xFFEE	65534	Baud Rate	R	2	UINT32	0	

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