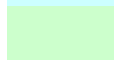
 = Controller F/W Versions 6.3.0 and later  
 = Controller F/W Versions 6.8.0 and later

**MAIN MODULE/SYSTEM DATA**

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
<b>Miscellaneous</b>								
0	15	N/A	<b>Manufacturer's Name</b>	ascii string	N/A	3,4	R	N/A
15	15	N/A	<b>Product Name</b>	ascii string	N/A	3,4/16	R/W	N/A
30	15	N/A	<b>Product Location</b>	ascii string	N/A	3,4/16	R/W	N/A
45	15	N/A	<b>Contact</b>	ascii string	N/A	3,4/16	R/W	N/A
60	10	N/A	<b>Model Number</b>	ascii string	N/A	3,4	R	N/A
70	6	N/A	<b>Date of Manufacture</b>	ascii string mm/dd/yyyy	N/A	3,4	R	N/A
76	10	N/A	<b>Serial Number</b>	ascii string	N/A	3,4	R	N/A
86	8	N/A	<b>Firmware Revision</b>	ascii string	N/A	3,4	R	N/A
94	4	N/A	<b>Hardware Revision</b>	ascii string	N/A	3,4	R	N/A
98	6	N/A	<b>System Date-Time Record</b>			3,4/16	R/W	
Offset 0	1	N/A	System Time Hour	0 to 23	Hours			1
Offset 1	1	N/A	System Time Minutes	0 to 59	Minutes			1
Offset 2	1	N/A	System Time Seconds	0 to 59	Seconds			1
Offset 3	1	N/A	System Date Month	0 to 12	Months			1
Offset 4	1	N/A	System Date Day	1 to 31	Days			1
Offset 5	1	N/A	System Date Year	0 to 9999	Years			1
104	1	N/A	<b>System On</b>	0 = Off 1 = On	N/A	3,4	R	1
105	1	N/A	<b>Startup Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
106	1	N/A	<b>Mode Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
107	1	N/A	<b>Humidity Control Method</b>	0 = Relative Humidity 1 = Dew Point	N/A	3,4/16	R/W	1
108	1	N/A	<b>Blower Speed</b>	200 to 600	.1 Hz	3,4/16	R/W	1
109	1	N/A	<b>Primary Sensors</b>	0 = Return Sensors 1 = Remote Sensors	N/A	3,4/16	R/W	1
110	1	N/A	<b>Remote Sensor Reading</b>	0 = Average Temperature 1 = Maximum Temperature	N/A	3,4/16	R/W	1
111	1	N/A	<b>Comm Loss Shutdown Delay</b>	0 to 24, -1 = no shutdown	Hours	3,4/16	R/W	1
112	1	N/A	<b>Cooling Essential</b>	0 = Essential 1 = Non-essential	N/A	3,4/16	R/W	1
113	1	N/A	<b>Re-Heat Essential</b>	0 = Essential 1 = Non-essential	N/A	3,4/16	R/W	1
114	1	N/A	<b>Humidification Essential</b>	0 = Essential 1 = Non-essential	N/A	3,4/16	R/W	1
115	1	N/A	<b>De-Humidification Essential</b>	0 = Essential 1 = Non-essential	N/A	3,4/16	R/W	1
116	1	N/A	<b>Fast Startup Enable</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
117	1	N/A	<b>Current Humidity Control Method</b>	0 = Relative Humidity 1 = Dew Point	N/A	3,4	R	1
118	119		<b>Reserved</b>			3,4	R	
<b>Module Configuration</b>								
237	1	N/A	<b>Output Capacity</b>	1 = 15 2 = 35 3 = 40 4 = 50 5 = 80	kW	3,4/16	R/W	1
238	1	N/A	<b>Coil Configuration</b>	0 = DX 1 = Econ 2 = Multi-Cool 3 = Liquid Cool	N/A	3,4/16	R/W	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
239	1	N/A	<b>Air Flow Direction</b>	0 = Up 1 = Down 2 = Horizontal	N/A	3,4/16	R/W	1
240	1	N/A	<b>Heat of Rejection Method</b>	0 = Air 1 = Water 2 = Glycol	N/A	3,4/16	R/W	1
241	1	N/A	<b>Heater Type</b>	0 = None 1 = Electric SCR 2 = Steam 3 = Hot Water On-Off 4 = Hot Gas Reheat 5 = Hot Gas & Electric 6 = Hot Water Proportional	N/A	3,4/16	R/W	1
242	1	N/A	<b>Capacity Control</b>	0 = Tandem 1 = Hot Gas Bypass	N/A	3,4	R	1
243	1	N/A	<b>Humidifier Type</b>	0 = None 1 = Steam Electrode 2 = Live Steam	N/A	3,4/16	R/W	1
244	1	N/A	<b>Water Regulation Actuator</b>	0 = None 2 = Floating Control	N/A	3,4/16	R/W	1
245	1	N/A	<b>Pre-Cool/MultiCool Actuator</b>	0 = None 1 = Spring Analog 2 = Floating Control	N/A	3,4/16	R/W	1
246	1	N/A	<b>Mains Voltage</b>	0 = 208/3/60 1 = 230/3/60 2 = 380/3/60 3 = 460/3/60 4 = 480/3/60 5 = 575/3/60 6 = 200/3/50 7 = 380/3/50 8 = 415/3/50	N/A	3,4/16	R/W	1
247	1	N/A	<b>Smoke Alarm</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
248	1	N/A	<b>Water Alarm</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
249	1	N/A	<b>Fire Alarm</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
250	1	N/A	<b>Number of PCIOMs</b>	0 to 4	N/A	3,4/16	R/W	1
251	1	N/A	<b>Flow Switch</b>	0 = None 1 = DX/Econ 2 = Multi-Cool/Chilled Water	N/A	3,4/16	R/W	1
252	1	N/A	<b>Hot Water Actuator</b>	0 = None 1 = Spring Analog 2 = Floating Control	N/A	3,4/16	R/W	1
253	1	N/A	<b>Water Regulation Valve Type</b>	0 = 2 way 1 = 3 way	N/A	3,4/16	R/W	1
254	1	N/A	<b>Econ/Multi-Cool Valve Type</b>	0 = 2 way 1 = 3 way	N/A	3,4/16	R/W	1
255	1		<b>Reserved</b>	0	N/A	3,4/16	R/W	1
256	1	N/A	<b>Condensate Pump</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
257	1	N/A	<b>Air Filter</b>	0 = Standard 1 = High Efficiency	N/A	3,4/16	R/W	1
258	1	N/A	<b>Number of Modules</b>	1 to 3	Modules	3,4/16	R/W	1
259	1	N/A	<b>Default Primary Sensors</b>	0 = Return Sensors 1 = Remote Sensors	N/A	3,4/16	R/W	1
260	1	N/A	<b>Electric Heater Type</b>	0 = 10kW 1 = 15kW	N/A	3,4/16	R/W	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
261	1	N/A	<b>Nominal Coil DP</b>	0.1 to 1.0	in. W.C.	3,4/16	R/W	S(7)
262	1	N/A	<b>UPS Voltage</b>	0 = Not Configured(Read Only) 1 = None 2 = 200 3 = 208 4 = 230 5 = 380 6 = 400 7 = 415 8 = 460 9 = 480 10 = 575	N/A	3,4/16	R/W	1
263	1	N/A	<b>Refrigerant Type</b>	0 = R22 1 = R407C	N/A	3,4/16	R/W	1
264	59		<b>Reserved</b>			3,4	R	
<b>Cooling</b>								
323	1	N/A	<b>Enable</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
324	2	N/A	<b>Set Point</b>	15.5625 to 32.21875	°C	3,4/16	R/W	S(5)
326	2	N/A	<b>Deadband</b>	0.28125 to 5.5625	°C	3,4/16	R/W	S(5)
328	2	N/A	<b>Liquid Cooling Threshold</b>	4.4375 to 32.21875	°C	3,4/16	R/W	S(5)
330	2	N/A	<b>Liquid Cooling Deadband</b>	0.5625 to 5.5625	°C	3,4/16	R/W	S(5)
332	1	N/A	<b>Interstage Delay</b>	60 to 999	Seconds	3,4/16	R/W	1
333	1	N/A	<b>Compressor Min. On Time</b>	120 to 300	Seconds	3,4/16	R/W	1
334	1	N/A	<b>Compressor Min. Off Time</b>	120 to 300	Seconds	3,4/16	R/W	1
335	1	N/A	<b>Water Reg. Valve Close Delay</b>	0 to 1200	Seconds	3,4/16	R/W	1
336	1	N/A	<b>Cool Ant. Valve Close Delay</b>	45 to 60	Minutes	3,4/16	R/W	1
337	1	N/A	<b>Compressor Alloc. Timeout</b>	0 to 999	Hours	3,4/16	R/W	1
<b>Re-Heating</b>								
338	1	N/A	<b>Enable</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
339	2	N/A	<b>Set Point</b>	15.5625 to 32.21875	°C	3,4/16	R/W	S(5)
341	2	N/A	<b>Deadband</b>	0.28125 to 5.5625	°C	3,4/16	R/W	S(5)
<b>Humidification</b>								
343	1	N/A	<b>Enable</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
344	2	N/A	<b>Set Point</b>	30.0 to 80.0	%RH	3,4/16	R/W	S(5)
346	2	N/A	<b>Deadband</b>	0.5 to 10.0	%RH	3,4/16	R/W	S(5)
348	1	N/A	<b>Function Select</b>	0 = Off 1 = Auto 2 = Drain	N/A	3,4/16	R/W	1
<b>Dehumidification</b>								
349	1	N/A	<b>Enable</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
350	2	N/A	<b>Set Point</b>	30.0 to 80.0	%RH	3,4/16	R/W	S(5)
352	2	N/A	<b>Deadband</b>	0.5 to 10.0	%RH	3,4/16	R/W	S(5)
354	1	N/A	<b>Capacity</b>	0 = Half Capacity 1 = Full Capacity	N/A	3,4/16	R/W	1
<b>PID Controllers</b>								
<b>Pre-Cool/MultiCool</b>								
355	1	N/A	<b>Mode</b>	0 = Proportional 1 = Proportional + Integral 2 = Proportional + Integral + Derivative	N/A	3,4/16	R/W	1
356	1	N/A	<b>Gain</b>	0.0 to 1.0	(%)/°C	3,4/16	R/W	S(8)
357	1	N/A	<b>Derivative</b>	0.0 to 1.0	(%)/(°C/s)	3,4/16	R/W	S(8)
358	1		<b>Reset Rate</b>	0.0 to 1.0	(%)/(°C*s)	3,4/16	R/W	S(8)
<b>Re-Heating SCR</b>								

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
359	1	N/A	<b>Mode</b>	0 = Proportional 1 = Proportional + Integral 2 = Proportional + Integral + Derivative	N/A	3,4/16	R/W	1
360	1	N/A	<b>Gain</b>	0.0 to 1.0	(%)/°C	3,4/16	R/W	S(8)
361	1	N/A	<b>Derivative</b>	0.0 to 1.0	(%)/(°C/s)	3,4/16	R/W	S(8)
362	1	N/A	<b>Reset Rate</b>	0.0 to 1.0	(%)/(°C*s)	3,4/16	R/W	S(8)
<b>Humidifying</b>								
363	1	N/A	<b>Sensitivity Band</b>	1 to 10	%RH	3,4/16	R/W	1
<b>Dehumidifying</b>								
364	1	N/A	<b>Mode</b>	0 = Proportional 1 = Proportional + Integral 2 = Proportional + Integral + Derivative	N/A	3,4/16	R/W	1
365	1	N/A	<b>Gain</b>	0.0 to 1.0	(%)/%RH	3,4/16	R/W	S(8)
366	1	N/A	<b>Derivative</b>	0.0 to 1.0	(%)/(%RH/s)	3,4/16	R/W	S(8)
367	1	N/A	<b>Reset Rate</b>	0.0 to 1.0	(%)/(%RH*s)	3,4/16	R/W	S(8)
<b>PCIOM</b>								
<b>PCIOM 1 Input 1</b>								
368	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
369	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
370	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
377	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
378	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 1 Input 2</b>								
379	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
380	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
381	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
388	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
389	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 1 Input 3</b>								
390	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
391	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
392	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
399	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
400	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 1 Input 4</b>								
401	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
402	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
403	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
410	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
411	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Input 1</b>								
412	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
413	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
414	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
421	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
422	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Input 2</b>								
423	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
424	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
425	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
432	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
433	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Input 3</b>								
434	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
435	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
436	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
443	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
444	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Input 4</b>								
445	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
446	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
447	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
454	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
455	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 3 Input 1</b>								
456	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
457	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
458	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
465	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
466	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 3 Input 2</b>								
467	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
468	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
469	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
476	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
477	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 3 Input 3</b>								
478	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
479	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
480	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
487	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
488	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
<b>PCIOM 3 Input 4</b>								
489	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
490	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
491	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
498	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
499	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Input 1</b>								
500	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
501	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
502	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
509	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
510	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Input 2</b>								
511	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
512	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
513	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
520	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
521	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Input 3</b>								
522	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
523	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
524	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
531	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
532	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Input 4</b>								

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
533	1	N/A	<b>Action</b>	0 = Status Only 1 = Minor Alarm 2 = Major Alarm 3 = Remote Run/Stop 4 = Nonessential Lock Out 5 = Immediate Shutdown	N/A	3,4/16	R/W	1
534	1	N/A	<b>Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
535	7	N/A	<b>Name</b>	ascii string	N/A	3,4/16	R/W	N/A
542	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
543	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 1 Output 1</b>								
544	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
545	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 1 Output 2</b>								
546	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
547	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 1 Output 3</b>								
548	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
549	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 1 Output 4</b>								
550	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
551	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Output 1</b>								
552	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
553	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Output 2</b>								
554	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
555	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Output 3</b>								
556	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
557	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 2 Output 4</b>								
558	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
559	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 3 Output 1</b>								
560	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
561	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 3 Output 2</b>								
562	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1



Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
563	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 3 Output 3</b>								
564	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
565	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 3 Output 4</b>								
566	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
567	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Output 1</b>								
568	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
569	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Output 2</b>								
570	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
571	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Output 3</b>								
572	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
573	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>PCIOM 4 Output 4</b>								
574	1	N/A	<b>Normal State</b>	0 = Open 1 = Closed	N/A	3,4/16	R/W	1
575	1	N/A	<b>Current State</b>	0 = Open 1 = Closed	N/A	3,4	R	1
<b>Sensor Status</b>								
576	1	N/A	<b>Supply Temperature</b>	-40 to 100	°C	3,4	R	S(5)
577	1	N/A	<b>Supply Humidity</b>	0 to 100	%RH	3,4	R	S(5)
578	1	N/A	<b>Return Temperature</b>	-40 to 100	°C	3,4	R	S(5)
579	1	N/A	<b>Return Humidity</b>	0 to 100	%RH	3,4	R	S(5)
580	1	N/A	<b>Average Remote Temperature</b>	-40 to 100	°C	3,4	R	S(5)
581	1	N/A	<b>Average Remote Humidity</b>	0 to 100	%RH	3,4	R	S(5)
582	1	N/A	<b>Suction Pressure</b>	0 to 500	PSI	3,4	R	1
583	1	N/A	<b>Discharge Pressure</b>	0 to 500	PSI	3,4	R	1
584	1	N/A	<b>Filter Differential Pressure</b>	0 to 8.30	in. W.C.	3,4	R	S(7)
585	1	N/A	<b>Coil Pack Differential Pressure</b>	0 to 8.30	in. W.C.	3,4	R	S(7)
586	1	N/A	<b>Inlet MC/Econ Water Temp</b>	0 to 90	°C	3,4	R	1
587	1	N/A	<b>Hot Water Temp</b>	0 to 90	°C	3,4	R	1
588	1	N/A	<b>Water Regulation Valve Pos</b>	0 to 100	% Open	3,4	R	1
589	1	N/A	<b>Econ/Multi-Cool Valve Pos</b>	0 to 100	% Open	3,4	R	1
590	1	N/A	<b>Hot Water Valve Pos</b>	0 to 100	% Open	3,4	R	1
591	1	N/A	<b>Average Return Temperature</b>	-40 to 100	°C	3,4	R	S(5)
592	1	N/A	<b>Average Return Humidity</b>	0 to 100	%RH	3,4	R	S(5)
593	1	N/A	<b>Minimum Remote Temperature</b>	-40 to 100	°C	3,4	R	S(5)
594	1	N/A	<b>Maximum Remote Temperature</b>	-40 to 100	°C	3,4	R	S(5)
595	1	N/A	<b>Number of Remote Sensors</b>	0 to 4		3,4	R	1
596	1	N/A	<b>Active Sensors</b>	0 = Return Sensors 1 = Remote Sensors		3,4	R	1
597	26		<b>Reserved</b>			3,4	R	
<b>Demand</b>								
623	1	N/A	<b>DX Cooling Demand</b>	0 to 100	%	3,4	R	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
624	1	N/A	Chilled Water Cooling Demand	0 to 100	%	3,4	R	1
625	1	N/A	Heating Demand-Electric	0 to 100	%	3,4	R	1
626	1	N/A	Heating Demand-Hot Water/Gas	0 to 100	%	3,4	R	1
627	1	N/A	DX Dehumidification Demand	0 to 100	%	3,4	R	1
628	1	N/A	MC Dehumidification Demand	0 to 100	%	3,4	R	1
629	1	N/A	Steam Electrode Humidification Demand	0 to 100	%	3,4	R	1
630	1	N/A	Compressor 1 Status	0 = Off 1 = On	N/A	3,4	R	1
631	1	N/A	Compressor 2 Status	0 = Off 1 = On	N/A	3,4	R	1
632	1	N/A	Chilled Water Cool/Dehum Out	0 to 100	%	3,4	R	1
633	1	N/A	Steam Electrode Humidification Output	0 to 100	%	3,4	R	1
634	1	N/A	DX Cooling/Dehum Output	0 to 100	%	3,4	R	1
635	1	N/A	Heating Output-Electric	0 to 100	%	3,4	R	1
636	1	N/A	Heating Output-Hot Water/Gas	0 to 100	%	3,4	R	1
637	1	N/A	Steam Humidification Demand	0 to 100	%	3,4	R	1
638	1	N/A	Steam Humidification Output	0 to 100	%	3,4	R	1
639	27		<b>Reserved</b>			3,4	R	
<b>Blower1</b>								
666	1	N/A	Frequency Command	0 to 400	Hz	3,4	R	10
667	1	N/A	Actual Frequency	0 to 400	Hz	3,4	R	10
668	1	N/A	Actual Torque	-200 to 200	%	3,4	R	100
669	1	N/A	Current	0 to 200	%	3,4	R	100
670	1	N/A	Voltage	0 to 600	V <sub>RMS</sub>	3,4	R	10
671	1	N/A	DC Link Voltage	0 to 1000	V <sub>DC</sub>	3,4	R	1
672	1	N/A	Capacitor Life	0 to 100	%	3,4	R	10
673	1	N/A	Fan Life	0 to 65535	Hours	3,4	R	1
674	1	N/A	Acceleration Time	1 to 3600	Seconds	3,4	R	10
675	1	N/A	Deceleration Time	1 to 3600	Seconds	3,4	R	10
676	1	N/A	Electronic Overload Mode	0 = Inactive 1 = Active		3,4	R	1
677	1	N/A	Electronic Overload Setting	0 to 9999	Amps	3,4	R	100
678	1	N/A	Electronic Overload Time Const	.5 to 10.0	Minutes	3,4	R	10
679	1	N/A	Number of Poles	2 to 14	N/A	3,4	R	1
680	1	N/A	Horsepower	1.0 to 15.0	Horsepower	3,4	R	100
681	1	N/A	Rated Current	0 to 99.9	Amps	3,4	R	10
<b>Blower2</b>								
682	1	N/A	Frequency Command	0 to 400	Hz	3,4	R	10
683	1	N/A	Actual Frequency	0 to 400	Hz	3,4	R	10
684	1	N/A	Actual Torque	-200 to 200	%	3,4	R	100
685	1	N/A	Current	0 to 200	%	3,4	R	100
686	1	N/A	Voltage	0 to 600	V <sub>RMS</sub>	3,4	R	10
687	1	N/A	DC Link Voltage	0 to 1000	V <sub>DC</sub>	3,4	R	1
688	1	N/A	Capacitor Life	0 to 100	%	3,4	R	10
689	1	N/A	Fan Life	0 to 65535	Hours	3,4	R	1
690	1	N/A	Acceleration Time	1 to 3600	Seconds	3,4	R	10
691	1	N/A	Deceleration Time	1 to 3600	Seconds	3,4	R	10
692	1	N/A	Electronic Overload Mode	0 = Inactive 1 = Active		3,4	R	1
693	1	N/A	Electronic Overload Setting	0 to 9999	Amps	3,4	R	100
694	1	N/A	Electronic Overload Time Const	.5 to 10.0	Minutes	3,4	R	10
695	1	N/A	Number of Poles	2 to 14	N/A	3,4	R	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
696	1	N/A	<b>Horsepower</b>	1.0 to 15.0	Horsepower	3,4	R	100
697	1	N/A	<b>Rated Current</b>	0 to 99.9	Amps	3,4	R	10
<b>Blower1</b>								
698	1	N/A	<b>Heatsink Temp.</b>	0 to 150	°C	3,4	R	1
699	1	N/A	<b>Choke Temp.</b>	0 to 150	°C	3,4	R	1
700	1	N/A	<b>Inverter Temp.</b>	0 to 150	°C	3,4	R	1
701	1	N/A	<b>Fan Power</b>	0 to 100.0	%	3,4	R	10
<b>Blower2</b>								
702	1	N/A	<b>Heatsink Temp.</b>	0 to 150	°C	3,4	R	1
703	1	N/A	<b>Choke Temp.</b>	0 to 150	°C	3,4	R	1
704	1	N/A	<b>Inverter Temp.</b>	0 to 150	°C	3,4	R	1
705	1	N/A	<b>Fan Power</b>	0 to 100.0	%	3,4	R	10
706	24	N/A	<b>Reserved</b>			3,4	R	
<b>Humidifier</b>								
730	1	N/A	<b>Electrode Current</b>	0 to 999.9	Amps	3,4	R	10
731	1	N/A	<b>Water Conductivity</b>	0 to 1999	micro-S/cm	3,4	R	1
<b>Run Hour Meters</b>								
732	2	N/A	<b>Compressor #1 Run Hours</b>	0 to 999999	Hours	3,4	R	1
734	2	N/A	<b>Compressor #2 Run Hours</b>	0 to 999999	Hours	3,4	R	1
736	2	N/A	<b>Heater</b>	0 to 999999	Hours	3,4	R	1
738	2	N/A	<b>Humidifier</b>	0 to 999999	Hours	3,4	R	1
740	2	N/A	<b>Blower #1</b>	0 to 999999	Hours	3,4	R	1
742	2	N/A	<b>Blower #2</b>	0 to 999999	Hours	3,4	R	1
744	2	N/A	<b>VFD #1</b>	0 to 999999	Hours	3,4	R	1
746	2	N/A	<b>VFD #2</b>	0 to 999999	Hours	3,4	R	1
748	16		<b>Reserved</b>			3,4	R	
<b>Commands</b>								
764	1	N/A	<b>System Control</b>	0 = Reset User Defaults 1 = Reset Service Defaults 2 = Clear Active System Alarms	N/A		16 W	1
765	1	N/A	<b>Main Module Control</b>	0 = Reset Compressor #1 Run Hour Counter 1 = Reset Compressor #2 Run Hour Counter 2 = Reset Heater Run Hour Counter 3 = Reset Humidifier Run Hour Counter 4 = Reset Blower #1 Run Hour Counter 5 = Reset Blower #2 Run Hour Counter 6 = Reset Compressor #1 Maintenance Alarm 7 = Reset Compressor #2 Maintenance Alarm 8 = Reset Heater Maintenance Alarm 9 = Reset Humidifier Maintenance Alarm 10 = Reset Blower #1 Maintenance Alarm	N/A		16 W	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
766	1	N/A	<b>Redundant Group Control</b>	11 = Reset Blower #2 Maintenance Alarm 12 = Reset VFD #1 Maintenance Alarm 13 = Reset VFD #2 Maintenance Alarm 14 = Start Auto Airflow Calibration 15 = Abort Auto Airflow Calibration 0 = Reset System Run Hours 1 = Reset System Failure 2 = Reset Group Field Service Defaults 3 = Clear Active Group Alarms	N/A		16 W	1
767	1		<b>Auto Airflow Calibration Status</b>	0 = Success 1 = Fail 2 = In Progress	N/A	3,4	R	1
768	12		<b>Reserved</b>			3,4	R	
<b>Alarm Thresholds</b>								
780	1	N/A	<b>Supply Temperature Low</b>	0 to 100	°C	3,4/16	R/W	S(5)
781	1	N/A	<b>Supply Temperature High</b>	0 to 100	°C	3,4/16	R/W	S(5)
782	1		<b>Reserved</b>	0		3,4/16	R/W	
783	1		<b>Reserved</b>	0		3,4/16	R/W	
784	1	N/A	<b>Environmental Temp. Low</b>	0 to 100	°C	3,4/16	R/W	S(5)
785	1	N/A	<b>Environmental Temp. High</b>	0 to 100	°C	3,4/16	R/W	S(5)
786	1	N/A	<b>Environmental Humidity Low</b>	0 to 100	%RH	3,4/16	R/W	S(5)
787	1	N/A	<b>Environmental Humidity High</b>	0 to 100	%RH	3,4/16	R/W	S(5)
788	2	N/A	<b>Compressor #1 Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
790	2	N/A	<b>Compressor #2 Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
792	2	N/A	<b>Heater Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
794	2	N/A	<b>Humidifier Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
796	2	N/A	<b>Blower #1 Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
798	2	N/A	<b>Blower #2 Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
800	2	N/A	<b>VFD #1 Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
802	2	N/A	<b>VFD #2 Maintenance Interval</b>	0 to 9900 (0 = Disable)	Hours	3,4/16	R/W	1
804	1	N/A	<b>Temperature Alarm Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
805	1	N/A	<b>Humidity Alarm Delay</b>	0 to 999	Seconds	3,4/16	R/W	1
806	1	N/A	<b>Inlet Coil Fluid Temp. High</b>	0 to 90	°C	3,4/16	R/W	S(5)
807	1	N/A	<b>Inlet Coil Fluid Temp. Low</b>	0 to 90	°C	3,4/16	R/W	S(5)
808	1		<b>Reserved</b>	0		3,4/16	R/W	
809	1		<b>Reserved</b>	0		3,4/16	R/W	
810	28		<b>Reserved</b>			3,4	R	
<b>Alarms</b>				<b>0 = Clear</b> <b>1 = Active</b>	<b>N/A</b>			
838	1		<b>Alarm Register 1</b>			3,4	R	
838			15 Environmental Temperature High					
838			14 Environmental Temperature Low					
838			13 Environmental Humidity High					
838			12 Environmental Humidity Low					
838			11 High Filter Different					

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
838		10	Return Sensor Failure					
838		9	High Supply Temperature					
838		8	Low Supply Temperature					
838		7	Reserved					
838		6	Reserved					
838		5	Loss or Low Airflow					
838		4	Supply Sensor Failure					
838		3	Water Regulator Actuator Failure					
838		2	PC/Multicool Actuator Failure					
838		1	High Head Pressure					
838		0	Low Suction Pressure					
839	1		<b>Alarm Register 2</b>			3,4	R	
839		15	Mains A failure					
839		14	Mains B failure					
839		13	Reserved					
839		12	Humidifier RS485 Communication Error					
839		11	Air Block Interlock Open					
839		10	Water Detected					
839		9	Fire (thermal sensor trip)					
839		8	Smoke Detected					
839		7	Condensate Pump Failure					
839		6	Reserved					
839		5	Humidifier High Water Conductivity					
839		4	Humidifier Excessive Foaming					
839		3	Humidifier High Current					
839		2	Humidifier No Power					
839		1	Humidifier Internal Memory Error					
839		0	Humidifier Lack of Water					
840	1		<b>Alarm Register 3</b>			3,4	R	
840		15	Humidifier Excessive Output Reduction					
840		14	Humidifier Drain Malfunction					
840		13	Humidifier Cylinder Full When Empty					
840		12	Humidifier Cylinder Depleted					
840		11	VFD 1 Over Current During Acceleration					
840		10	VFD 2 Over Current During Acceleration					
840		9	VFD 1 Over Current During Deceleration					
840		8	VFD 2 Over Current During Deceleration					
840		7	VFD 1 Over Current During Steady Operation					
840		6	VFD 2 Over Current During Steady Operation					
840		5	Reserved					
840		4	Compressor #1 Requires Maintenance					
840		3	Compressor #2 Requires Maintenance					
840		2	Heater Requires Maintenance					
840		1	Humidifier Requires Maintenance					
840		0	Blower #1 Requires Maintenance					
841	1		<b>Alarm Register 4</b>			3,4	R	

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
841		15	Blower #2 Requires Maintenance					
841		14	Loss of Coolant Flow to MultiCool/Chilled Water Coil					
841		13	Loss of Coolant Flow to Econ Coil/Condensor					
841		12	VFD 1 Over Voltage During Acceleration					
841		11	VFD 2 Over Voltage During Acceleration					
841		10	VFD 1 Over Voltage During Deceleration					
841		9	VFD 2 Over Voltage During Deceleration					
841		8	VFD 1 Over Voltage During Steady Operation					
841		7	VFD 2 Over Voltage During Steady Operation					
841		6	VFD 1 DC Under Voltage					
841		5	VFD 2 DC Under Voltage					
841		4	VFD 1 Power Supply Open Phase					
841		3	VFD 2 Power Supply Open Phase					
841		2	VFD 1 Output Wiring Error					
841		1	VFD 2 Output Wiring Error					
841		0	VFD 1 Heat Sink Over Temp					
842	1		<b>Alarm Register 5</b>			3,4	R	
842		15	VFD 2 Heat Sink Over Temp					
842		14	VFD 1 Motor 1 Overload					
842		13	VFD 2 Motor 1 Overload					
842		12	VFD 1 Overload					
842		11	VFD 2 Overload					
842		10	VFD 1 Overheat Outside Thermal					
842		9	VFD 2 Overheat Outside Thermal					
842		8	VFD 1 Overheat DB Resistor					
842		7	VFD 2 Overheat DB Resistor					
842		6	VFD 1 Motor 2 Overload					
842		5	VFD 2 Motor 2 Overload					
842		4	VFD 1 Memory Error					
842		3	VFD 2 Memory Error					
842		2	VFD 1 Keypad Transmission Error					
842		1	VFD 2 Keypad Transmission Error					
842		0	VFD 1 CPU Error					
843	1		<b>Alarm Register 6</b>			3,4	R	
843		15	VFD 2 CPU Error					
843		14	VFD 1 Option Communication Error					
843		13	VFD 2 Option Communication Error					
843		12	VFD 1 Option Error					
843		11	VFD 2 Option Error					
843		10	VFD 1 PL Error					
843		9	VFD 2 PL Error					
843		8	VFD 1 RS485 Communication Error					
843		7	VFD 2 RS485 Communication Error					

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
843		6	Slave Module 1 Comm Loss					
843		5	Slave Module 2 Comm Loss					
843		4	Slave Module 3 Comm Loss					
843		3	Reserved					
843		2	Inlet MC/Econ Water Temp High					
843		1	Inlet MC/Econ Water Temp Low					
843		0	Reserved					
844	1		<b>Alarm Register 7</b>			3,4	R	
844		15	Reserved					
844		14	Remote Sensor Address 3 Removed					
844		13	Remote Sensor Address 4 Removed					
844		12	Remote Sensor Address 5 Removed					
844		11	Remote Sensor Address 6 Removed					
844		10	Remote Sensor Address 7 Removed					
844		9	Remote Sensor Address 8 Removed					
844		8	Remote Sensor Address 9 Removed					
844		7	Remote Sensor Address 10 Removed					
844		6	Primary Sensors Fail					
844		5	Secondary Sensors Fail					
844		4	Secondary Sensors Active					
844		3	High Suction Pressure					
844		2	VFD #1 Requires Maintenance					
844		1	VFD #2 Requires Maintenance					
844		0	Humidifier Fault Tolerance Exceeded					
845	1		<b>Alarm Register 8</b>			3,4	R	
845		15	VFD #1 Fault Tolerance Exceeded					
845		14	VFD #2 Fault Tolerance Exceeded					
845		13	Inlet Coil Fluid Temperature Sensor Fail					
845		12	System Offline					
845		11	No Backup Systems Available					
845		10	Module Firmware Version Mismatch					
845		9	Reserved					
845		8	Reserved					
845		7	Reserved					
845		6	Reserved					
845		5	Reserved					
845		4	Reserved					
845		3	Reserved					
845		2	Reserved					
845		1	Reserved					
845		0	Reserved					
846	1		<b>Alarm Register 9 (Redundant Group Control System #1)</b>			3,4	R	
846		15	System Failure					
846		14	System Off					
846		13	Backup is On-Line					
846		12	Backup is Load Sharing					
846		11	System Fire Detected					
846		10	System Smoke Detected					

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
846		9	Group Fatal Fire Shutdown					
846		8	Group Fatal Smoke Shutdown					
846		7	Inter-System Communications Lost					
846		6	Group Configuration Invalid					
846		5	Group Configuration Conflict					
846		4	System Firmware Version Mismatch					
846		3	Reserved					
846		2	Reserved					
846		1	Reserved					
846		0	Reserved					
847	1		<b>Alarm Register 10 (Redundant Group Control System #2)</b>			3,4	R	
847		15	System Failure					
847		14	System Off					
847		13	Backup is On-Line					
847		12	Backup is Load Sharing					
847		11	System Fire Detected					
847		10	System Smoke Detected					
847		9	Group Fatal Fire Shutdown					
847		8	Group Fatal Smoke Shutdown					
847		7	Inter-System Communications Lost					
847		6	Group Configuration Invalid					
847		5	Group Configuration Conflict					
847		4	System Firmware Version Mismatch					
847		3	Reserved					
847		2	Reserved					
847		1	Reserved					
847		0	Reserved					
848	1		<b>Alarm Register 11 (Redundant Group Control System #3)</b>			3,4	R	
848		15	System Failure					
848		14	System Off					
848		13	Backup is On-Line					
848		12	Backup is Load Sharing					
848		11	System Fire Detected					
848		10	System Smoke Detected					
848		9	Group Fatal Fire Shutdown					
848		8	Group Fatal Smoke Shutdown					
848		7	Inter-System Communications Lost					
848		6	Group Configuration Invalid					
848		5	Group Configuration Conflict					
848		4	System Firmware Version Mismatch					
848		3	Reserved					
848		2	Reserved					
848		1	Reserved					
848		0	Reserved					
849	1		<b>Alarm Register 12 (Redundant Group Control System #4)</b>			3,4	R	
849		15	System Failure					
849		14	System Off					
849		13	Backup is On-Line					
849		12	Backup is Load Sharing					
849		11	System Fire Detected					
849		10	System Smoke Detected					
849		9	Group Fatal Fire Shutdown					
849		8	Group Fatal Smoke Shutdown					



Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
849		7	Inter-System Communications Lost					
849		6	Group Configuration Invalid					
849		5	Group Configuration Conflict					
849		4	System Firmware Version Mismatch					
849		3	Reserved					
849		2	Reserved					
849		1	Reserved					
849		0	Reserved					
850	3		Reserved			3,4	R	
<b>Supplemental</b>								
853	1	N/A	<b>LCD Display Contrast</b>	0 to 7 0 = High 7 = Low	N/A	3,4/16	R/W	1
854	1	N/A	<b>LCD Display Key Click</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
855	1	N/A	<b>LCD Display Beeper Volume</b>	0 = Off 1 = Low 2 = Medium 3 = High	N/A	3,4/16	R/W	1
856	5	N/A	<b>LCD Display User Password</b>	ascii string (5th word must equal 0x0000)	N/A	16	W	N/A
861	5	N/A	<b>LCD Display Field Service Pwd</b>	ascii string (5th word must equal 0x0000)	N/A	16	W	N/A
866	1	N/A	<b>Timeout</b>	0 = 1 minute 1 = 2 minutes 2 = 5 minutes 3 = 10 minutes 4 = 30 minutes 5 = 1 hour 6 = 2 hours 7 = 4 hours	N/A	16	R/W	1
867	1	N/A	<b>Unit BMI Slave Address</b>	1 to 255	N/A	3,4/16	R/W	1
868	1	N/A	<b>Unit BMI Baud Rate</b>	0 = 2400 1 = 4800 2 = 9600 3 = 19200	N/A	3,4/16	R/W	1
869	1	N/A	<b>Unit BMI Parity</b>	0 = None 1 = Even 2 = Odd	N/A	3,4/16	R/W	1
870	1	N/A	<b>Unit BMI Stop Bit Length</b>	0 = 1bit length 1 = 2 bit length	N/A	3,4/16	R/W	1
871	5		Reserved			3,4	R	
<b>Cooling Section 2</b>								
876	1	N/A	<b>Econ Isolator Valve Open Delay</b>	15 to 120	Seconds	3,4/16	R/W	1
877	1	N/A	<b>Econ Isolator Enabled</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
878	1	N/A	<b>Suction Pressure Compensation Enabled</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	1
879	121		Reserved			3,4	R	
<b>PCIOM Output Triggers</b>								
Each element in this section is a 16-bit bitmask. Bit 0 represents Output #1, Bit 1 represents Output #2, and so on.								
1000	1	N/A	<b>High Environmental Temperature</b>		N/A	3,4/16	R/W	
1001	1	N/A	<b>Low Environmental Temperature</b>		N/A	3,4/16	R/W	
1002	1	N/A	<b>High Environmental Humidity</b>		N/A	3,4/16	R/W	
1003	1	N/A	<b>Low Environmental Humidity</b>		N/A	3,4/16	R/W	
1004	1	N/A	<b>Fire Alarm</b>		N/A	3,4/16	R/W	

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
1005	1	N/A	Smoke Alarm		N/A	3,4/16	R/W	
1006	1	N/A	Econ Isolator		N/A	3,4/16	R/W	
1007	1	N/A	Output #1		N/A	3,4/16	R/W	
1008	1	N/A	Output #2		N/A	3,4/16	R/W	
1009	1	N/A	Output #3		N/A	3,4/16	R/W	
1010	1	N/A	Output #4		N/A	3,4/16	R/W	
1011	1	N/A	Output #5		N/A	3,4/16	R/W	
1012	1	N/A	Output #6		N/A	3,4/16	R/W	
1013	1	N/A	Output #7		N/A	3,4/16	R/W	
1014	1	N/A	Output #8		N/A	3,4/16	R/W	
1015	1	N/A	Output #9		N/A	3,4/16	R/W	
1016	1	N/A	Output #10		N/A	3,4/16	R/W	
1017	1	N/A	Output #11		N/A	3,4/16	R/W	
1018	1	N/A	Output #12		N/A	3,4/16	R/W	
1019	1	N/A	Output #13		N/A	3,4/16	R/W	
1020	1	N/A	Output #14		N/A	3,4/16	R/W	
1021	1	N/A	Output #15		N/A	3,4/16	R/W	
1022	1	N/A	Output #16		N/A	3,4/16	R/W	
1023	1	N/A	Input #1		N/A	3,4/16	R/W	
1024	1	N/A	Input #2		N/A	3,4/16	R/W	
1025	1	N/A	Input #3		N/A	3,4/16	R/W	
1026	1	N/A	Input #4		N/A	3,4/16	R/W	
1027	1	N/A	Input #5		N/A	3,4/16	R/W	
1028	1	N/A	Input #6		N/A	3,4/16	R/W	
1029	1	N/A	Input #7		N/A	3,4/16	R/W	
1030	1	N/A	Input #8		N/A	3,4/16	R/W	
1031	1	N/A	Input #9		N/A	3,4/16	R/W	
1032	1	N/A	Input #10		N/A	3,4/16	R/W	
1033	1	N/A	Input #11		N/A	3,4/16	R/W	
1034	1	N/A	Input #12		N/A	3,4/16	R/W	
1035	1	N/A	Input #13		N/A	3,4/16	R/W	
1036	1	N/A	Input #14		N/A	3,4/16	R/W	
1037	1	N/A	Input #15		N/A	3,4/16	R/W	
1038	1	N/A	Input #16		N/A	3,4/16	R/W	
1039	1	N/A	Main Module Maintenance		N/A	3,4/16	R/W	
1040	1	N/A	Main Module Cooling Failure		N/A	3,4/16	R/W	
1041	1	N/A	Main Module Humidifier Failure		N/A	3,4/16	R/W	
1042	1	N/A	Main Module VFD 1 Failure		N/A	3,4/16	R/W	
1043	1	N/A	Main Module VFD 2 Failure		N/A	3,4/16	R/W	
1044	1	N/A	Main Module High Filter Diff. Pressure		N/A	3,4/16	R/W	
1045	1	N/A	Main Module High Supply Temperature		N/A	3,4/16	R/W	
1046	1	N/A	Main Module Low Supply Temperature		N/A	3,4/16	R/W	
1047	1	N/A	Reserved		N/A	3,4/16	R/W	
1048	1	N/A	Reserved		N/A	3,4/16	R/W	
1049	1	N/A	Main Module Low Airflow		N/A	3,4/16	R/W	
1050	1	N/A	Supply Sensor Failure		N/A	3,4/16	R/W	
1051	1	N/A	Return Sensor Failure		N/A	3,4/16	R/W	
1052	1	N/A	Main Module Replace Canister		N/A	3,4/16	R/W	
1053	1	N/A	Main Module Air Block Interlock Open		N/A	3,4/16	R/W	
1054	1	N/A	Main Module Water Detected		N/A	3,4/16	R/W	
1055	1	N/A	Main Module Condensate Pump Fail		N/A	3,4/16	R/W	
1056	1	N/A	Main Module Summary		N/A	3,4/16	R/W	
1057	1	N/A	Expansion #1 Maintenance		N/A	3,4/16	R/W	
1058	1	N/A	Expansion #1 Cooling Failure		N/A	3,4/16	R/W	

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
1059	1	N/A	Expansion #1 Humidifier Failure		N/A	3,4/16	R/W	
1060	1	N/A	Expansion #1 VFD 1 Failure		N/A	3,4/16	R/W	
1061	1	N/A	Expansion #1 VFD 2 Failure		N/A	3,4/16	R/W	
1062	1	N/A	Expansion #1 High Filter Diff. Pressure		N/A	3,4/16	R/W	
1063	1	N/A	Expansion #1 High Supply Temperature		N/A	3,4/16	R/W	
1064	1	N/A	Expansion #1 Low Supply Temperature		N/A	3,4/16	R/W	
1065	1	N/A	Reserved		N/A	3,4/16	R/W	
1066	1	N/A	Reserved		N/A	3,4/16	R/W	
1067	1	N/A	Expansion #1 Low Airflow		N/A	3,4/16	R/W	
1068	1	N/A	Reserved		N/A	3,4/16	R/W	
1069	1	N/A	Reserved		N/A	3,4/16	R/W	
1070	1	N/A	Expansion #1 Replace Canister		N/A	3,4/16	R/W	
1071	1	N/A	Expansion #1 Air Block Interlock Open		N/A	3,4/16	R/W	
1072	1	N/A	Expansion #1 Water Detected		N/A	3,4/16	R/W	
1073	1	N/A	Expansion #1 Condensate Pump Fail		N/A	3,4/16	R/W	
1074	1	N/A	Expansion #1 Summary		N/A	3,4/16	R/W	
1075	1	N/A	Expansion #2 Maintenance		N/A	3,4/16	R/W	
1076	1	N/A	Expansion #2 Cooling Failure		N/A	3,4/16	R/W	
1077	1	N/A	Expansion #2 Humidifier Failure		N/A	3,4/16	R/W	
1078	1	N/A	Expansion #2 VFD 1 Failure		N/A	3,4/16	R/W	
1079	1	N/A	Expansion #2 VFD 2 Failure		N/A	3,4/16	R/W	
1080	1	N/A	Expansion #2 High Filter Diff. Pressure		N/A	3,4/16	R/W	
1081	1	N/A	Expansion #2 High Supply Temperature		N/A	3,4/16	R/W	
1082	1	N/A	Expansion #2 Low Supply Temperature		N/A	3,4/16	R/W	
1083	1	N/A	Reserved		N/A	3,4/16	R/W	
1084	1	N/A	Reserved		N/A	3,4/16	R/W	
1085	1	N/A	Expansion #2 Low Airflow		N/A	3,4/16	R/W	
1086	1	N/A	Reserved		N/A	3,4/16	R/W	
1087	1	N/A	Reserved		N/A	3,4/16	R/W	
1088	1	N/A	Expansion #2 Replace Canister		N/A	3,4/16	R/W	
1089	1	N/A	Expansion #2 Air Block Interlock Open		N/A	3,4/16	R/W	
1090	1	N/A	Expansion #2 Water Detected		N/A	3,4/16	R/W	
1091	1	N/A	Expansion #2 Condensate Pump Fail		N/A	3,4/16	R/W	
1092	1	N/A	Expansion #2 Summary		N/A	3,4/16	R/W	
1093	1	N/A	System On		N/A	3,4/16	R/W	
1094	1	N/A	System Summary		N/A	3,4/16	R/W	
1095	1	N/A	Remote Sensor Removed		N/A	3,4/16	R/W	
1096	1	N/A	Primary Sensors Fail		N/A	3,4/16	R/W	
1097	1	N/A	Secondary Sensors Fail		N/A	3,4/16	R/W	
1098	1	N/A	Secondary Sensors Active		N/A	3,4/16	R/W	
1099	1	N/A	System Offline		N/A	3,4/16	R/W	
1100	50		Reserved			3,4	R	
<b>Redundant Group Control Configuration</b>								
1150	15	N/A	Group Name	ascii string	N/A	3,4/16	R/W	N/A
1165	1	N/A	Number of Systems in the Group	1..4	N/A	3,4/16	R/W	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
1166	1	N/A	<b>System #1 Role</b>	0 = Primary 1 = Backup	N/A	3,4/16	R/W	N/A
1167	1	N/A	<b>System #2 Role</b>	0 = Primary 1 = Backup	N/A	3,4/16	R/W	N/A
1168	1	N/A	<b>System #3 Role</b>	0 = Primary 1 = Backup	N/A	3,4/16	R/W	N/A
1169	1	N/A	<b>System #4 Role</b>	0 = Primary 1 = Backup	N/A	3,4/16	R/W	N/A
1170	1	N/A	<b>Number of Primary Systems</b>	1..4	N/A	3,4/16	R/W	1
1171	1	N/A	<b>Runtime Balancing</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1172	1	N/A	<b>Demand Fighting</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1173	1	N/A	<b>Setpoint Sharing</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1174	1	N/A	<b>Failover on System Comm. Loss</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1175	1	N/A	<b>Shutdown Group on Smoke Alarm</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1176	1	N/A	<b>Shutdown Group on Fire Alarm</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1177	1	N/A	<b>Idle Blower Speed</b>	0 = Off 1 = Minimum 2 = Normal	N/A	3,4/16	R/W	N/A
1178	1	N/A	<b>Load Sharing: Cooling</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1179	1	N/A	<b>Load Sharing: Reheat</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1180	1	N/A	<b>Load Sharing: Humidification</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1181	1	N/A	<b>Load Sharing: Dehumidification</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1182	1	N/A	<b>Load Sharing: Cooling Offset</b>	0.0.. 11.125	°C	3,4/16	R/W	S(5)
1183	1	N/A	<b>Load Sharing: Reheat Offset</b>	0.0.. 11.125	°C	3,4/16	R/W	S(5)
1184	1	N/A	<b>Load Sharing: Humidification Offset</b>	0.0..10.0	%RH	3,4/16	R/W	S(5)
1185	1	N/A	<b>Load Sharing: Dehumidification Offset</b>	0.0..20.0	%RH	3,4/16	R/W	S(5)
1186	1	N/A	<b>Actual Demand Fighting</b>	0 = Disabled 1 = Enabled	N/A	3,4	R	N/A
1187	1	N/A	<b>Actual Setpoint Sharing</b>	0 = Disabled 1 = Enabled	N/A	3,4	R	N/A
1188	30		<b>Reserved</b>			3,4	R	
<b>Redundant Group Control Failure Events</b>								
1218	1	N/A	<b>Any Minor Alarm</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1219	1	N/A	<b>Any Major Alarm</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1220	1	N/A	<b>High Environmental Temperature</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1221	1	N/A	<b>Low Environmental Temperature</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1222	1	N/A	<b>High Environmental Humidity</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1223	1	N/A	<b>Low Environmental Humidity</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1224	1	N/A	<b>Fire Alarm</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1225	1	N/A	<b>Smoke Alarm</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
1226	1	N/A	<b>Communications Lost</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1227	1	N/A	<b>Supply Sensor Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1228	1	N/A	<b>Return Sensor Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1229	1	N/A	<b>Primary Sensor Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1230	1	N/A	<b>Secondary Sensor Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1231	1	N/A	<b>No Sensors Available</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1232	1	N/A	<b>Maintenance Required</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1233	1	N/A	<b>Cooling Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1234	1	N/A	<b>Humidifier Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1235	1	N/A	<b>VFD #1 Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1236	1	N/A	<b>VFD #2 Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1237	1	N/A	<b>High Filter Differential Pressure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1238	1	N/A	<b>High Supply Temperature</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1239	1	N/A	<b>Low Supply Temperature</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1240	1	N/A	<b>Loss or Low Airflow</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1241	1	N/A	<b>Humidier Replace Cylinder</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1242	1	N/A	<b>Air Block Interlock</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1243	1	N/A	<b>Water Detected</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1244	1	N/A	<b>Condensate Pump Failure</b>	0 = Disabled 1 = Enabled	N/A	3,4/16	R/W	N/A
1245	50		<b>Reserved</b>			3,4	R	
<b>Redundant Group Control Status</b>								
1295	1		<b>System 1 Status</b>		N/A	3,4	R	N/A
1295		15..12	<b>Reserved</b>	0				
1295		11.8	<b>Comm Status</b>	0 = Comm Lost 1 = Comm OK				
1295		7..6	<b>Reserved</b>	0				
1295		5..4	<b>Role</b>	0 = Primary 1 = Backup				
1295		3..0	<b>Status</b>	0 = Initializing 1 = Initializing 2 = On Line 3 = Idle 4 = Load Sharing 5 = Failed 6 = Off Line				
1296	1		<b>System 2 Status</b>		N/A	3,4	R	N/A
1296		15..12	<b>Reserved</b>	0				
1296		11.8	<b>Comm Status</b>	0 = Comm Lost 1 = Comm OK				
1296		7..6	<b>Reserved</b>	0				
1296		5..4	<b>Role</b>	0 = Primary 1 = Backup				

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
1296		3..0	Status	0 = Initializing 1 = Initializing 2 = On Line 3 = Idle 4 = Load Sharing 5 = Failed 6 = Off Line				
1297	1		<b>System 3 Status</b>		N/A	3,4	R	N/A
1297		15..12	<b>Reserved</b>	0				
1297		11.8	<b>Comm Status</b>	0 = Comm Lost 1 = Comm OK				
1297		7..6	<b>Reserved</b>	0				
1297		5..4	<b>Role</b>	0 = Primary 1 = Backup				
1297		3..0	<b>Status</b>	0 = Initializing 1 = Initializing 2 = On Line 3 = Idle 4 = Load Sharing 5 = Failed 6 = Off Line				
1298	1		<b>System 4 Status</b>		N/A	3,4	R	N/A
1298		15..12	<b>Reserved</b>	0				
1298		11.8	<b>Comm Status</b>	0 = Comm Lost 1 = Comm OK				
1298		7..6	<b>Reserved</b>	0				
1298		5..4	<b>Role</b>	0 = Primary 1 = Backup				
1298		3..0	<b>Status</b>	0 = Initializing 1 = Initializing 2 = On Line 3 = Idle 4 = Load Sharing 5 = Failed 6 = Off Line				
1299	2	N/A	<b>System 1 Run Hours</b>	0 to 999999	Hours	3,4	R	1
1301	2	N/A	<b>System 2 Run Hours</b>	0 to 999999	Hours	3,4	R	1
1303	2	N/A	<b>System 3 Run Hours</b>	0 to 999999	Hours	3,4	R	1
1305	2	N/A	<b>System 4 Run Hours</b>	0 to 999999	Hours	3,4	R	1
1307	693		<b>Reserved</b>			3,4	R	

**EXPANSION MODULE DATA**

Expansion Module Register Address = Address + Expansion Module Offset

Module 2 Date of Manufacture = 3000+10 = 3010

Expansion Module 1 Offset = 2000

Expansion Module 2 Offset = 3000

<b>Miscellaneous</b>								
0	10	N/A	<b>Model Number</b>	ascii string	N/A	3,4	R	N/A
10	6	N/A	<b>Date of Manufacture</b>	ascii string mm/dd/yyyy	N/A	3,4	R	N/A
16	10	N/A	<b>Serial Number</b>	ascii string	N/A	3,4	R	N/A
26	8	N/A	<b>Firmware Revision</b>	ascii string	N/A	3,4	R	N/A
34	4	N/A	<b>Hardware Revision</b>	ascii string	N/A	3,4	R	N/A
38	1	N/A	<b>Blower Speed</b>	200 to 600	.1 Hz	3,4/16	R/W	1
39	7		<b>Reserved</b>			3,4	R	
<b>Module Configuration</b>								

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
46	1	N/A	<b>Output Capacity</b>	1 = 15 2 = 35 3 = 40 4 = 50 5 = 80	kW	3,4/16	R/W	1
47	1	N/A	<b>Heater Type</b>	0 = None 1 = Electric SCR 2 = Steam 3 = Hot Water On-Off 4 = Hot Gas Reheat 5 = Hot Gas & Electric 6 = Hot Water Proportional	N/A	3,4/16	R/W	1
48	1	N/A	<b>Capacity Control</b>	0 = Tandem 1 = Hot Gas Bypass	N/A	3,4	R	1
49	1	N/A	<b>Humidifier Type</b>	0 = None 1 = Steam Electrode 2 = Live Steam	N/A	3,4/16	R/W	1
50	1	N/A	<b>Smoke Alarm</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
51	1	N/A	<b>Water Alarm</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
52	1	N/A	<b>Fire Alarm</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
53	1	N/A	<b>Condensate Pump</b>	0 = Not Present 1 = Present	N/A	3,4/16	R/W	1
54	1	N/A	<b>Electric Heater Type</b>	0 = 10kW 1 = 15kW	N/A	3,4/16	R/W	1
55	1	N/A	<b>Nominal Coil DP</b>	0.1 to 1.0	in. W.C.	3,4/16	R/W	S(7)
56	6		<b>Reserved</b>			3,4	R	
<b>Humidification</b>								
62	1	N/A	<b>Function Select</b>	0 = Off 1 = Auto 2 = Drain	N/A	3,4/16	R/W	1
<b>Sensor Status</b>								
63	1	N/A	<b>Supply Temperature</b>	-40 to 100	°C	3,4	R	S(5)
64	1	N/A	<b>Supply Humidity</b>	0 to 100	%RH	3,4	R	S(5)
65	1	N/A	<b>Return Temperature</b>	-40 to 100	°C	3,4	R	S(5)
66	1	N/A	<b>Return Humidity</b>	0 to 100	%RH	3,4	R	S(5)
67	1		<b>Reserved</b>	0	N/A	3,4	R	
68	1		<b>Reserved</b>	0	N/A	3,4	R	
69	1	N/A	<b>Suction Pressure</b>	0 to 500	PSI	3,4	R	1
70	1	N/A	<b>Discharge Pressure</b>	0 to 500	PSI	3,4	R	1
71	1	N/A	<b>Filter Differential Pressure</b>	0 to 8.30	in. W.C.	3,4	R	S(7)
72	1	N/A	<b>Coil Pack Differential Pressure</b>	0 to 8.30	in. W.C.	3,4	R	S(7)
73	1	N/A	<b>Inlet MC/Econ Water Temp</b>	0 to 90	°C	3,4	R	1
74	1		<b>Hot Water Temp</b>	0 to 90		3,4	R	
75	1	N/A	<b>Water Regulation Valve Pos</b>	0 to 100	% Open	3,4	R	1
76	1	N/A	<b>Econ/Multi-Cool Valve Pos</b>	0 to 100	% Open	3,4	R	1
77	1		<b>Hot Water Valve Pos</b>	0 to 100		3,4	R	
<b>Demand</b>								
78	1	N/A	<b>Compressor 1 Status</b>	0 = Off 1 = On	N/A	3,4	R	1
79	1	N/A	<b>Compressor 2 Status</b>	0 = Off 1 = On	N/A	3,4	R	1
<b>Blower1</b>								
80	1	N/A	<b>Actual Frequency</b>	0 to 400	Hz	3,4	R	10
81	1	N/A	<b>Actual Torque</b>	-200 to 200	%	3,4	R	100
82	1	N/A	<b>Current</b>	0 to 200	%	3,4	R	100
83	1	N/A	<b>Voltage</b>	0 to 600	VRMS	3,4	R	10

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
84	1	N/A	<b>DC Link Voltage</b>	0 to 1000	VDC	3,4	R	1
85	1	N/A	<b>Capacitor Life</b>	0 to 100	%	3,4	R	10
86	1	N/A	<b>Fan Life</b>	0 to 65535	Hours	3,4	R	1
87	1	N/A	<b>Acceleration Time</b>	1 to 3600	Seconds	3,4	R	10
88	1	N/A	<b>Deceleration Time</b>	1 to 3600	Seconds	3,4	R	10
89	1	N/A	<b>Electronic Overload Mode</b>	0 = Inactive 1 = Active		3,4	R	1
90	1	N/A	<b>Electronic Overload Setting</b>	0 to 9999	Amps	3,4	R	100
91	1	N/A	<b>Electronic Overload Time Const</b>	.5 to 10.0	Minutes	3,4	R	10
92	1	N/A	<b>Number of Poles</b>	2 to 14	N/A	3,4	R	1
93	1	N/A	<b>Horsepower</b>	1.0 to 15.0	Horsepower	3,4	R	100
94	1	N/A	<b>Rated Current</b>	0 to 99.9	Amps	3,4	R	10
<b>Blower2</b>								
95	1	N/A	<b>Actual Frequency</b>	0 to 400	Hz	3,4	R	10
96	1	N/A	<b>Actual Torque</b>	-200 to 200	%	3,4	R	100
97	1	N/A	<b>Current</b>	0 to 200	%	3,4	R	100
98	1	N/A	<b>Voltage</b>	0 to 600	VRMS	3,4	R	10
99	1	N/A	<b>DC Link Voltage</b>	0 to 1000	VDC	3,4	R	1
100	1	N/A	<b>Capacitor Life</b>	0 to 100	%	3,4	R	10
101	1	N/A	<b>Fan Life</b>	0 to 65535	Hours	3,4	R	1
102	1	N/A	<b>Acceleration Time</b>	1 to 3600	Seconds	3,4	R	10
103	1	N/A	<b>Deceleration Time</b>	1 to 3600	Seconds	3,4	R	10
104	1	N/A	<b>Electronic Overload Mode</b>	0 = Inactive 1 = Active		3,4	R	1
105	1	N/A	<b>Electronic Overload Setting</b>	0 to 9999	Amps	3,4	R	100
106	1	N/A	<b>Electronic Overload Time Const</b>	.5 to 10.0	Minutes	3,4	R	10
107	1	N/A	<b>Number of Poles</b>	2 to 14	N/A	3,4	R	1
108	1	N/A	<b>Horsepower</b>	1.0 to 15.0	Horsepower	3,4	R	100
109	1	N/A	<b>Rated Current</b>	0 to 99.9	Amps	3,4	R	10
<b>Humidifier</b>								
110	1	N/A	<b>Electrode Current</b>	0 to 999.9	Amps	3,4	R	10
111	1	N/A	<b>Water Conductivity</b>	0 to 1999	micro-S/cm	3,4	R	1
<b>Run Hour Meters</b>								
112	2	N/A	<b>Compressor #1 Run Hours</b>	0 to 999999	Hours	3,4	R	1
114	2	N/A	<b>Compressor #2 Run Hours</b>	0 to 999999	Hours	3,4	R	1
116	2	N/A	<b>Heater</b>	0 to 999999	Hours	3,4	R	1
118	2	N/A	<b>Humidifier</b>	0 to 999999	Hours	3,4	R	1
120	2	N/A	<b>Blower #1</b>	0 to 999999	Hours	3,4	R	1
122	2	N/A	<b>Blower #2</b>	0 to 999999	Hours	3,4	R	1
124	2	N/A	<b>VFD #1</b>	0 to 999999	Hours	3,4	R	1
126	2	N/A	<b>VFD #2</b>	0 to 999999	Hours	3,4	R	1
<b>Alarms</b>								
				<b>0 = Clear</b>				
				<b>1 = Active</b>				
128	1		<b>Alarm Register 1</b>			3,4	R	
128		15	Reserved					
128		14	Reserved					
128		13	Reserved					
128		12	Reserved					
128		11	High Filter Different					
128		10	Return Sensor Failure					
128		9	High Supply Temperature					
128		8	Low Supply Temperature					
128		7	Reserved					
128		6	Reserved					
128		5	Loss or Low Airflow					
128		4	Supply Sensor Failure					
128		3	Water Regulator Actuator Failure					
128		2	PC/Multicool Actuator Failure					
128		1	High Head Pressure					



Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
128		0	Low Suction Pressure					
129	1		<b>Alarm Register 2</b>			3,4	R	
129		15	Mains A failure					
129		14	Mains B failure					
129		13	Reserved					
129		12	Humidifier RS485 Communication Error					
129		11	Air Block Interlock Open					
129		10	Water Detected					
129		9	Fire (thermal sensor trip)					
129		8	Smoke Detected					
129		7	Condensate Pump Failure					
129		6	Reserved					
129		5	Humidifier High Water Conductivity					
129		4	Humidifier Excessive Foaming					
129		3	Humidifier High Current					
129		2	Humidifier No Power					
129		1	Humidifier Internal Memory Error					
129		0	Humidifier Lack of Water					
130	1		<b>Alarm Register 3</b>			3,4	R	
130		15	Humidifier Excessive Output Reduction					
130		14	Humidifier Drain Malfunction					
130		13	Humidifier Cylinder Full When Empty					
130		12	Humidifier Cylinder Depleted					
130		11	VFD 1 Over Current During Acceleration					
130		10	VFD 2 Over Current During Acceleration					
130		9	VFD 1 Over Current During Deceleration					
130		8	VFD 2 Over Current During Deceleration					
130		7	VFD 1 Over Current During Steady Operation					
130		6	VFD 2 Over Current During Steady Operation					
130		5	Reserved					
130		4	Compressor #1 Requires Maintenance					
130		3	Compressor #2 Requires Maintenance					
130		2	Heater Requires Maintenance					
130		1	Humidifier Requires Maintenance					
130		0	Blower #1 Requires Maintenance					
131	1		<b>Alarm Register 4</b>			3,4	R	
131		15	Blower #2 Requires Maintenance					
131		14	Loss of Coolant Flow to MultiCool/Chilled Water Coil					
131		13	Loss of Coolant Flow to Econ Coil/Condensor					
131		12	VFD 1 Over Voltage During Acceleration					
131		11	VFD 2 Over Voltage During Acceleration					
131		10	VFD 1 Over Voltage During Deceleration					

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
131		9	VFD 2 Over Voltage During Deceleration					
131		8	VFD 1 Over Voltage During Steady Operation					
131		7	VFD 2 Over Voltage During Steady Operation					
131		6	VFD 1 DC Under Voltage					
131		5	VFD 2 DC Under Voltage					
131		4	VFD 1 Power Supply Open Phase					
131		3	VFD 2 Power Supply Open Phase					
131		2	VFD 1 Output Wiring Error					
131		1	VFD 2 Output Wiring Error					
131		0	VFD 1 Heat Sink Over Temp					
132	1		<b>Alarm Register 5</b>			3,4	R	
132		15	VFD 2 Heat Sink Over Temp					
132		14	VFD 1 Motor 1 Overload					
132		13	VFD 2 Motor 1 Overload					
132		12	VFD 1 Overload					
132		11	VFD 2 Overload					
132		10	VFD 1 Overheat Outside Thermal					
132		9	VFD 2 Overheat Outside Thermal					
132		8	VFD 1 Overheat DB Resistor					
132		7	VFD 2 Overheat DB Resistor					
132		6	VFD 1 Motor 2 Overload					
132		5	VFD 2 Motor 2 Overload					
132		4	VFD 1 Memory Error					
132		3	VFD 2 Memory Error					
132		2	VFD 1 Keypad Transmission Error					
132		1	VFD 2 Keypad Transmission Error					
132		0	VFD 1 CPU Error					
133	1		<b>Alarm Register 6</b>			3,4	R	
133		15	VFD 2 CPU Error					
133		14	VFD 1 Option Communication Error					
133		13	VFD 2 Option Communication Error					
133		12	VFD 1 Option Error					
133		11	VFD 2 Option Error					
133		10	VFD 1 PL Error					
133		9	VFD 2 PL Error					
133		8	VFD 1 RS485 Communication Error					
133		7	VFD 2 RS485 Communication Error					
133		6	Reserved					
133		5	Inlet MC/Econ Water Temp High					
133		4	Inlet MC/Econ Water Temp Low					
133		3	Reserved					
133		2	Reserved					
133		1	High Suction Pressure					
133		0	VFD #1 Requires Maintenance					
134	1		<b>Alarm Register 7</b>			3,4	R	
134		15	VFD #2 Requires Maintenance					
134		14	Humidifier Fault Tolerance Exceeded					

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
134		13	VFD #1 Fault Tolerance Exceeded					
134		12	VFD #2 Fault Tolerance Exceeded					
134		11	Inlet Coil Fluid Temperature Sensor Fail					
134		10	Reserved					
134		9	Reserved					
134		8	Reserved					
134		7	Reserved					
134		6	Reserved					
134		5	Reserved					
134		4	Reserved					
134		3	Reserved					
134		2	Reserved					
134		1	Reserved					
134		0	Reserved					
<b>Blower1</b>								
135	1	N/A	Freq. Command	20.0 to 60.0	Hz	3,4	R	10
136	1	N/A	Heatsink Temp.	0 to 150	°C	3,4	R	1
137	1	N/A	Choke Temp.	0 to 150	°C	3,4	R	1
138	1	N/A	Inverter Temp.	0 to 150	°C	3,4	R	1
139	1	N/A	Fan Power	0 to 100.0	%	3,4	R	10
<b>Blower2</b>								
140	1	N/A	Freq. Command	20.0 to 60.0	Hz	3,4	R	10
141	1	N/A	Heatsink Temp.	0 to 150	°C	3,4	R	1
142	1	N/A	Choke Temp.	0 to 150	°C	3,4	R	1
143	1	N/A	Inverter Temp.	0 to 150	°C	3,4	R	1
144	1	N/A	Fan Power	0 to 100.0	%	3,4	R	10
145	22		Reserved			3,4	R	
<b>Humidifier 2</b>								
167	1	N/A	Humidifier Output	0 to 100	%	3,4	R	1
168	10		Reserved			3,4	R	
<b>Commands</b>								
178	1	N/A	Expansion Module Control	0 = Reset Compressor #1 Run Hour Counter 1 = Reset Compressor #2 Run Hour Counter 2 = Reset Heater Run Hour Counter 3 = Reset Humidifier Run Hour Counter 4 = Reset Blower #1 Run Hour Counter 5 = Reset Blower #2 Run Hour Counter 6 = Reset Compressor #1 Maintenance Alarm 7 = Reset Compressor #2 Maintenance Alarm 8 = Reset Heater Maintenance Alarm 9 = Reset Humidifier Maintenance Alarm 10 = Reset Blower #1 Maintenance Alarm	N/A		16 W	1

Address (decimal)	Length (in words)	Bit Position	Description	Data Range	Units	Functions Supported	R/W	Scaling
179	1		<b>Auto Airflow Calibration Status</b>	11 = Reset Blower #2 Maintenance Alarm 12 = Reset VFD #1 Maintenance Alarm 13 = Reset VFD #2 Maintenance Alarm 14 = Start Auto Airflow Calibration 15 = Abort Auto Airflow Calibration 0 = Success 1 = Fail 2 = In Progress	N/A	3,4	R	1
180	820		<b>Reserved</b>			3,4	R	