

Omni Compressor Panel #5

**22073-001-1-01-05
INSTITUTION FOOD HOUSE
HICKORY, NC 28603**

**Configuration Version 1.0
4/3/2019 3:42:31 PM**

GEA Omni™ Control Panel

Panel Data Report

Analog Data

Description	Channel	Range	Scale	RW	AB	Modbus
Suction Pressure	1:1AI - 1		X10	R	N98:0	408801
Discharge Pressure	1:1AI - 2		X10	R	N98:20	408821
Oil Pressure	1:1AI - 3		X10	R	N98:30	408831
Suction Temperature	1:2AI - 1		X10	R	N99:50	408951
Discharge Temperature	1:2AI - 2		X10	R	N99:60	408961
Oil Temperature	1:2AI - 3		X10	R	N99:80	408981
Oil Separator Temperature	1:2AI - 4		X10	R	N99:70	408971
Loop Time			X1	R	N104:92	409493
Oil Filter Differential			X10	R	N98:80	408881
Oil Differential			X10	R	N98:70	408871
Saturated Suction Temperature			X10	R	N103:71	409372
Saturated Discharge Temperature			X10	R	N103:81	409382
Suction Superheat			X10	R	N104:11	409412
Discharge Superheat			X10	R	N104:21	409422
Accumulated Run Time Hours			X1	R		
Total Number Of Compressor Starts			X1	R	N105:33	409534
KW Total Usage			X10	R	N103:50	409351
Capacity Percentage			X1	R	N100:90	409091
Motor Speed			X1	R	N102:70	409271
KWh Demand			X10	R	N103:40	409341
Motor Current	1:1MC - 1		X10	R	N102:50	409251
Capacity Slide Position	1:10AI - 1		X1	R	N100:60	409061
Oil Filter Inlet Pressure	1:1AI - 4		X10	R	N98:60	408861
Oil Filter Outlet Pressure	1:3AI - 3		X10	R	N98:50	408851
Control Mode			X1	R	N221:19	421120
Capacity Mode			X1	R	N102:30	409231
Compressor Runtime Hours			X1	R		

Digital Data

Description	Channel	State	RW	AB	Modbus
Emergency Stop Input	1:1DI - 1	0=Off / 1=On	R	N96:13.0	408614.0
Compressor Interlock	1:1DI - 2	0=Off / 1=On	R	N96:1.0	408602.0
Oil Pump Interlock	1:1DI - 3	0=Off / 1=On	R	N96:61.0	408662.0
Oil Separator Heater	1:2DO - 7	0=Off / 1=On	R	N96:69.0	408670.0
Warning Status	1:2DO - 8	0=Off / 1=On	R	N96:15.0	408616.0
Compressor Motor Start	1:1DO - 1	0=Off / 1=On	R	N96:0.0	408601.0
Oil Pump Motor Start	1:1DO - 2	0=Off / 1=On	R	N96:59.0	408660.0
Load Solenoid	1:1DO - 3	0=Off / 1=On	R	N96:24.0	408625.0
Unload Solenoid	1:1DO - 4	0=Off / 1=On	R	N96:25.0	408626.0
Shutdown Status	1:1DO - 7	0=Off / 1=On	R	N96:14.0	408615.0
Auxiliary Shutdown Input #1	1:2DI - 1	0=Off / 1=On	R	N97:23.0	408724.0
Auxiliary Warning Input #1	1:2DI - 2	0=Off / 1=On	R	N97:24.0	408725.0
Network Permissive Start Monitoring		0=Off / 1=On	R		
Network External Unload Monitoring		0=Off / 1=On	R		
Network External Load Monitoring		0=Off / 1=On	R		
Network Remote Start Stop Monitoring		0=Off / 1=On	R		
Start Permissive	1:1DI - 7	0=Off / 1=On	R	N97:9.0	408710.0
Auxiliary Warning Input #2	1:2DI - 7	0=Off / 1=On	R	N97:24.1	408725.1
Auxiliary Shutdown Input #2	1:2DI - 6	0=Off / 1=On	R	N97:23.1	408724.1

Panel - Configuration Information

Panel Details			
Original Panel Type	FES Micro II Ile	Original Contract No	87-0044-0306
Enclosure Size	600mm x 600mm x 250mm	Enclosure Material	Carbon Steel RAL 7035
Panel Voltage	120 VAC	Solenoid Voltage	120 VAC
Classification	Non Hazardous	Purger	None
Panel Heater	None	Ethernet Switch	None
Transducer Configuration	By GEA with Bracket, Block, Valves and Cables		
Refrigerant	R22		

87-0044-0306 (FES model 100B)

Description	Value	Range	Scale	RW	AB	Modbus
-------------	-------	-------	-------	----	----	--------

Viewport

Compressor Viewport	1	0 = No Entries 1-10 = Compressor #X	X1	R/W	N106:0	409601
---------------------	---	--	----	-----	--------	--------

Capacity Control 1

Name			X1	R/W	N106:1	409602
Control Signal	Suction Pressure	0 = Suction Pressure 1 = Suction Pressure As Temperature 2 = Inlet Temperature 3 = Outlet Temperature 4 = Discharge Pressure 5 = Discharge Pressure As Temperature 6 = Remote Capacity 7 = Remote Temperature 8 = Remote Pressure 9 = Storage Tank Pressure 10 = Condenser Outlet Temperature 11 = Condenser Inlet Temperature 12 = Average Outlet Temperature	X1	R/W	N106:2	409603
Set Point	2.6 PSIG	29.9 inHg to 185.3 PSIG	X10	R/W	N106:3	409604
Dead Band	0.1 PSID	0.1 PSID to 1.5 PSID	X10	R/W	N106:4	409605
Proportional Band	1.5 PSID	1.5 PSID to 14.5 PSID	X10	R/W	N106:5	409606
Automatic Start Stop	Disabled	0 = Disabled 2 = Offsets -1 = Set Points	X1	R/W	N106:6	409607
Load Pulse Period	4 s	1 s to 20 s	X1	R/W	N106:11	409612
Unload Pulse Period	4 s	1 s to 20 s	X1	R/W	N106:12	409613
Minimum Capacity Slide Position	0 %	0 % to 100 %	X1	R/W	N106:13	409614
Maximum Capacity Slide Position	100 %	0 % to 100 %	X1	R/W	N106:14	409615
Ramp Rate Selection	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N108:56	409857

Capacity Control 2

Name			X1	R/W	N106:16	409617
Control Signal	Suction Pressure	0 = Suction Pressure 1 = Suction Pressure As Temperature 2 = Inlet Temperature 3 = Outlet Temperature 4 = Discharge Pressure 5 = Discharge Pressure As Temperature 6 = Remote Capacity 7 = Remote Temperature 8 = Remote Pressure 9 = Storage Tank Pressure 10 = Condenser Outlet Temperature 11 = Condenser Inlet Temperature 12 = Average Outlet Temperature	X1	R/W	N106:17	409618
Set Point	2.6 PSIG	29.9 inHg to 185.3 PSIG	X10	R/W	N106:18	409619
Dead Band	0.1 PSID	0.1 PSID to 1.5 PSID	X10	R/W	N106:19	409620
Proportional Band	1.5 PSID	1.5 PSID to 14.5 PSID	X10	R/W	N106:20	409621
Automatic Start Stop	Disabled	0 = Disabled 2 = Offsets -1 = Set Points	X1	R/W	N106:21	409622
Load Pulse Period	4 s	1 s to 20 s	X1	R/W	N106:26	409627
Unload Pulse Period	4 s	1 s to 20 s	X1	R/W	N106:27	409628
Minimum Capacity Slide Position	0 %	0 % to 100 %	X1	R/W	N106:28	409629
Maximum Capacity Slide Position	100 %	0 % to 100 %	X1	R/W	N106:29	409630
Ramp Rate Selection	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N108:57	409858

Capacity Control 3

Name			X1	R/W	N106:31	409632
-------------	--	--	----	-----	---------	--------

Control Signal	Suction Pressure	0 = Suction Pressure 1 = Suction Pressure As Temperature 2 = Inlet Temperature 3 = Outlet Temperature 4 = Discharge Pressure 5 = Discharge Pressure As Temperature 6 = Remote Capacity 7 = Remote Temperature 8 = Remote Pressure 9 = Storage Tank Pressure 10 = Condenser Outlet Temperature 11 = Condenser Inlet Temperature 12 = Average Outlet Temperature	X1	R/W	N106:32	409633
Set Point	2.6 PSIG	29.9 inHg to 270.0 PSIG	X10	R/W	N106:33	409634
Dead Band	0.1 PSID	1.5 PSID to 1.5 PSID	X10	R/W	N106:34	409635
Proportional Band	1.5 PSID	1.5 PSID to 50.0 PSID	X10	R/W	N106:35	409636
Automatic Start Stop	Disabled	0 = Disabled 2 = Offsets -1 = Set Points	X1	R/W	N106:36	409637
Load Pulse Period	4 s	1 s to 20 s	X1	R/W	N106:41	409642
Unload Pulse Period	4 s	1 s to 20 s	X1	R/W	N106:42	409643
Minimum Capacity Slide Position	0 %	0 % to 100 %	X1	R/W	N106:43	409644
Maximum Capacity Slide Position	100 %	0 % to 100 %	X1	R/W	N106:44	409645
Ramp Rate Selection	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N108:58	409859

Control

Control Mode	Capacity Control 1	0 = Capacity Control 1 1 = Capacity Control 2 2 = Capacity Control 3	X1	R/W	N106:46	409647
Control Mode Select By Digital Input	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N106:47	409648
Set Point Location	Local	0 = Local 1 = Remote	X1	R/W	N106:49	409650

Remote Set Point Units	Temperature	0 = Pressure 1 = Temperature 2 = Percent 3 = Low Pressure	X1	R/W	N108:46	409847
Remote Control Value Units	Temperature	0 = Pressure 1 = Temperature	X1	R/W	N108:74	409875
Maximum Capacity Slide To Allow Start	5 %	0 % to 100 %	X1	R/W	N106:50	409651
Capacity Slide Failed to Unload Shutdown Timer	180 s	35 s to 600 s	X1	R/W	N106:51	409652
Capacity Control Delay	15 s	0 s to 900 s	X1	R/W	N106:52	409653
Load Limitation Delay	15 s	15 s to 300 s	X1	R/W	N107:8	409709
Sequencer Overwrite Local Capacity Parameters	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N106:53	409654
External Capacity Mode	Direct Pulse Control	0 = Direct Pulse Control 1 = Indirect Pulse Control	X1	R/W	N108:38	409839
Remote Control Interface	Network	0 = Network 1 = Hard Wired	X1	R/W	N108:52	409853
Control Mode After Shutdown	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N108:99	409900
Customer Communication Network Failure	Warning	0 = Warning 1 = Shutdown	X1	R/W	N108:73	409874
Sequencer Control	GEA Omni	0 = GEA Omni 1 = GEA FES Legacy Panel	X1	R/W	N109:12	409913
Start Permissive Control	Start Permissive and Stop Immediate	0 = Start Permissive and Stop Immediate 1 = Start Permissive Only 2 = Start Permissive And Stop Immediate Do Not Auto Restart	X1	R/W	N109:13	409914

Stopping Sequence	Unload Slide and Variable Speed Drive in Parallel	0 = Stop Compressor Immediately 1 = Hold Variable Speed Drive While Slide Unloads 2 = Unload Slide 3 = Hold Cylinders While Variable Speed Drive Unloads 4 = Unload Variable Speed Drive and Cylinders in Series -1 = Unload Slide and Variable Speed Drive in Parallel	X1	R/W	N108:79	409880
Accumulated Compressor Runtime Hours	0 h	0 to 32767 0 to 999.9	X1	R/W	N90:92, N90:93	408143, 408144
Compressor Sequencer Loss Of Communication	Warning	0 = Warning 1 = Shutdown	X1		N/A	N/A

Motor

Number Of Starts	0	0 to 1000000000	X1	R/W	N109:67	409968
Accumulated Runtime Hours	0 h	0 h to 1000000000 h	X1	R/W	N106:67	409668
Motor Start To Start Delay	20.0 min	20.0 min to 9999.0 min	X10	R/W	N106:68	409669
Motor Stop To Start Delay	30 s	5 s to 3600 s	X1	R/W	N106:69	409670

Motor Power

kW Demand Metering Ratio	55.8 kW	0.0 kW to 3200.0 kW	X10	R/W	N106:72	409673
Motor Nameplate Voltage	0.0 V	0.0 V to 6000.0 V	X10	R/W	N110:16	410017
Motor Nameplate kW	0.0 kW	0.0 kW to 1492.0 kW	X10	R/W	N110:17	410018
Motor Nameplate hp	0.0 hp	0.0 hp to 2000.0 hp	X10	R/W	N110:18	410019
kWh Estimated Usage	0.0 kWh	0 to 32767 0 to 999.9	X10	R/W	N90:90, N90:91	408141, 408142

Motor Current

Motor Current Nominal FLA	61.0 A	1.0 A to 2000.0 A	X10	R/W	N106:71	409672
High Motor Current Shutdown Run Delay	30 s	0 s to 60 s	X1	R/W	N106:75	409676
High Motor Current Shutdown	70.2 A	1.0 A to 2000.0 A	X10	R/W	N106:76	409677
High Motor Current Shutdown Timer	5 s	1 s to 30 s	X1	R/W	N106:77	409678
High Motor Current Warning Offset	6.1 A	0.0 A to 300.0 A	X10	R/W	N106:78	409679

Illegal Compressor Motor Current Shutdown	10 %	5 % to 20 %	X1	R/W	N106:79	409680
Low Motor Current Run Delay	0 s	0 s to 30 s	X1	R/W	N106:80	409681
Low Motor Current Shutdown	59.6 A	0.0 A to 61.0 A	X10	R/W	N106:81	409682
Low Motor Current Shutdown Timer	8 s	0 s to 30 s	X1	R/W	N106:82	409683
Limitation Motor Current Load Inhibit Offset	10.0 A	0.0 A to 300.0 A	X10	R/W	N106:83	409684
Limitation Motor Current Force Unload Offset	5.0 A	0.0 A to 300.0 A	X10	R/W	N106:84	409685

Motor Interlock

Start Motor Failure to Interlock Timer	30 s	1 s to 60 s	X1	R/W	N108:77	409878
Stopping Loss of Compressor Interlock Shutdown Timer	8.0 s	1.0 s to 60.0 s	X10	R/W	N108:78	409879

Oil Pump

Oil Pump 1 Runtime	0.0 h	0.0 h to 1000000000.0 h	X10	R/W	N108:67	409868
Oil Pump Drain Timer	10 min	0 min to 30 min	X1	R/W	N106:93	409694
Oil Pump Compressor Allowed Start Timer	35 s	10 s to 60 s	X1	R/W	N106:94	409695
Oil Pump Prelube Timer	5 s	0 s to 300 s	X1	R/W	N106:95	409696
Oil Pump PostLube Timer	5 s	0 s to 30 s	X1	R/W	N106:96	409697
Oil Pump Run Minimum Timer	0 s	0 s to 600 s	X1	R/W	N106:97	409698
Oil Pump Maintained Timer	2 s	0 s to 300 s	X1	R/W	N107:1	409702
Oil Pump Circulation Mode	Disabled	0 = Disabled 1 = Time 2 = Temperature	X1	R/W	N107:2	409703

Oil Pump Interlock

Illegal Oil Pump Interlock Shutdown Timer	5 s	1 s to 60 s	X1	R/W	N107:9	409710
Oil Pump Loss of Interlock Shutdown Timer	5 s	1 s to 60 s	X1	R/W	N107:11	409712

Oil Pressure

High Oil Differential Pressure Shutdown	200.0 PSID	14.5 PSID to 290.1 PSID	X10	R/W	N107:12	409713
High Oil Differential Pressure Starting Shutdown Timer	5 s	0 s to 900 s	X1	R/W	N107:13	409714
High Oil Differential Pressure Running Shutdown Timer	5 s	0 s to 900 s	X1	R/W	N107:14	409715

High Oil Differential Pressure Warning Offset	10.0 PSID	0.0 PSID to 145.0 PSID	X10	R/W	N107:15	409716
High Oil Differential Pressure Warning Timer	0 s	0 s to 600 s	X1	R/W	N107:16	409717
Low Oil Differential Pressure Shutdown	20.0 PSID	10.0 PSID to 290.1 PSID	X10	R/W	N107:17	409718
Low Oil Differential Pressure Starting Shutdown Timer	120 s	0 s to 900 s	X1	R/W	N107:18	409719
Low Oil Differential Pressure Running Shutdown Timer	5 s	0 s to 900 s	X1	R/W	N107:19	409720
Low Oil Differential Pressure Warning Offset	2.0 PSID	0.0 PSID to 145.0 PSID	X10	R/W	N107:21	409722
Low Oil Differential Pressure Warning Timer	0 s	0 s to 600 s	X1	R/W	N107:22	409723
Low Oil Differential Run Delay	6 s	1 s to 300 s	X1	R/W	N107:20	409721

Oil Filter Pressure

High Oil Filter Differential Shutdown	43.5 PSID	1.5 PSID to 20.0 PSID	X10	R/W	N107:23	409724
High Oil Filter Differential Warning Offset	15.0 PSID	0.0 PSID to 72.5 PSID	X10	R/W	N107:24	409725
High Oil Filter Differential Timer	6 s	1 s to 60 s	X1	R/W	N107:25	409726
Illegal Oil Filter Differential Pressure Warning Timer	60 s	0 s to 300 s	X1	R/W	N107:26	409727

Oil Separator

Oil Separator Temperature Set Point	115.0 °F	49.0 °F to 212.0 °F	X10	R/W	N107:28	409729
High Oil Separator Temperature Shutdown	225.0 °F	75.0 °F to 212.0 °F	X10	R/W	N107:29	409730
High Oil Separator Temperature Warning Offset	15.0 F°	0.0 F° to 126.0 F°	X10	R/W	N107:30	409731
Low Oil Separator Temperature Shutdown	75.0 °F	49.0 °F to 225.0 °F	X10	R/W	N107:31	409732
Low Oil Separator Temperature Warning Offset	27.0 F°	0.0 F° to 126.0 F°	X10	R/W	N107:32	409733

Oil Temperature

High Oil Temperature Shutdown	176.0 °F	95.0 °F to 165.0 °F	X10	R/W	N107:37	409738
High Oil Temperature Warning Offset	0.0 F°	0.0 F° to 90.0 F°	X10	R/W	N107:38	409739
Low Oil Temperature Shutdown	95.0 °F	49.0 °F to 122.0 °F	X10	R/W	N107:39	409740
Low Oil Temperature Warning Offset	7.2 F°	0.0 F° to 90.0 F°	X10	R/W	N107:40	409741
Low Oil Temperature Start Delay	300 s	0 s to 600 s	X1	R/W	N107:41	409742

Suction Pressure

High Suction Pressure Warning	6.4 PSIG	27.0 inHg to 185.3 PSIG	X10	R/W	N107:44	409745
High Suction Pressure Start Delay	300 s	0 s to 300 s	X1	R/W	N107:45	409746
Low Suction Pressure Shutdown	2.7 inHg	27.0 inHg to 185.3 PSIG	X10	R/W	N107:46	409747
Low Suction Pressure Warning Offset	0.7 PSID	0.0 PSID to 72.5 PSID	X10	R/W	N107:49	409750
Limitation Suction Pressure Load Inhibit Offset	8.7 PSID	0.1 PSID to 72.5 PSID	X10	R/W	N107:50	409751
Limitation Suction Pressure Force Unload Offset	4.4 PSID	0.1 PSID to 72.5 PSID	X10	R/W	N107:51	409752

Discharge Pressure

High Discharge Pressure Shutdown	65.0 PSIG	0.4 inHg to 270.0 PSIG	X10	R/W	N107:52	409753
High Discharge Pressure Warning Offset	15.0 PSID	0.0 PSID to 145.0 PSID	X10	R/W	N107:53	409754
Limitation Discharge Pressure Load Inhibit Offset	14.5 PSID	1.5 PSID to 145.0 PSID	X10	R/W	N107:54	409755
Limitation Discharge Pressure Force Unload Offset	18.9 PSID	1.5 PSID to 145.0 PSID	X10	R/W	N107:55	409756

Discharge Temperature

High Discharge Temperature Shutdown	225.0 °F	33.8 °F to 212.0 °F	X10	R/W	N107:57	409758
High Discharge Temperature Warning Offset	14.4 F°	0.0 F° to 90.0 F°	X10	R/W	N107:58	409759

Loss of Remote Start Signal

Loss of Remote Start Signal Run Warning Timer	20 s	0 s to 120 s	X1	R/W	N107:78	409779
---	------	--------------	----	-----	---------	--------

Power Failure Restart

Power Failure Restart Mode	Disabled	0 = Disabled 1 = Local 2 = Remote 3 = Shutdown 4 = Previous State	X1	R/W	N107:79	409780
----------------------------	----------	---	----	-----	---------	--------

Superheat

Superheat Suction Annunciations	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N107:82	409783
Superheat Discharge Annunciations	Disabled	0 = Disabled -1 = Enabled	X1	R/W	N108:53	409854

Capacity Outputs

Compressor Service

Compressor Service Notification	Disabled	0 = Disabled 1 = Email Only 2 = Both -1 = Notification Only	X1	R/W	N108:16	409817
--	----------	--	----	-----	---------	--------

87-0044-0306 (FES model 100B) - Configuration Information

Package Details			
Compressor Name	87-0044-0306 (FES model 100B)		
Compressor	Screw	Application	Booster / Low Stage
Brand	Mycom	Series	Mycom
Vi Mode	Fixed	Vi Position Sensor	None
Model	Mycom Mycom		
Primary Slide Control Devices	Single Solenoids	Primary Slide Position	Potentiometer
Process Temperature	None	Pump Down	Disabled
Suction Check Valve Close Assist	None	Double Balance Piston Pressure	None
Remote Start Stop	Disabled	Remote Control IO	Disabled
VTrac	Disabled	Set Point Selection Digital Input	Disabled
Motor Current And Capacity Output	Disabled	Start Permissive	Enabled
Hot gas bypass	Disabled	Starting Bypass	Disabled
		Fast Unload	Disabled
		Remote Set Point	Disabled
Oil System Details			
Oil Pump	External Full-Time	Dual Oil Pump Enabled	Disabled
		Oil Cooling	Thermosiphon
Oil Drain Minimum Timer:	0 min	Oil Differential Pressure Max	290.1 PSID
Variable Speed Oil Pump Enable	Disabled		
Filter			
Oil Filter Pressure Transducer	Both	Oil Filter Inlet Scaling	0-500 PSIG
Oil Filter Pressure Drop Max	20.0 PSID	Oil Filter Outlet Scaling	0-500 PSIG
Separator			
Oil Temperature Max	165.0 °F	Oil Separator Heaters	2
Level		Oil Separator Temperature Probe	Enabled

High Oil Level	None	Oil Heater On During Run	Disabled
Low Oil Level	None	Heater Voltage	
		Heater Power	1200

Motor

Drive	Fixed Speed, Solid State, ATL or Wye-Delta	Motor Current Input	CT
Motor Speed Input	Disabled	Motor Speed Maximum	3600 rpm
Motor RPM for Fixed Speed	3600 rpm	Motor Speed Minimum	1800 rpm
Min Motor Start To Start Delay	20 min	Motor Starter Communication Enabled	None
Motor Start Signal	None	Power Calculation	Motor Current Input
CT Location	Starter	Package Mounted Starter	Disabled

Suction **Discharge**

Suction Pressure Scaling	0-200 PSIA	Discharge Pressure Scaling	0-500 PSIG
Suction Pressure Max	185.3 PSIG	Discharge Pressure Max:	270.0 PSIG
Suction Temperature Max	32.0 °F	Discharge Temperature Max:	212.0 °F

Economizer Details

Economizer	Non-Economized	Economizer Pressure	None
		Economizer Temperature	Disabled

Temperature Probes

Oil Separator	715-00006A-001 / (715-120061-001) 3/8" Dia x 5 3/8" Long	Discharge Temperature	715-00006A-001 / (715-120061-001) 3/8" Dia x 5 3/8" Long
Oil Temperature	715-00006A-000 / (715-120061-000) 3/8" Dia x 4.0" Long	Suction Temperature	715-00006A-002 / (715-120061-002) 3/8" Dia x 8 3/8" Long