

BAS integration guide

Modbus protocol

Doc. Name:

D-EIGOC00203-22_01EN_EWYT-B

Product Name:

EWYT-B

Control software name:

NASH_HP



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1. Introduction

This document contains information to incorporate a MicroTech® III and Microtech 4 Unit Controllers into a building automation system (BAS) via Modbus communication protocols.

Microtech III and Microtech 4 are suitable for network integration. Data points accessible from a Modbus network are made available to a BAS provided that the proper communication module (Microtech III and Microtech 4) or the corresponding software option (Microtech 4) are installed / activated.

Modbus terms are not defined. Refer to the standard Modbus specifications for definitions and details about the protocol.



2. About this document

2.1 Revision History

Version	Date	Software Version	Description
D-EIGOC00203-22EN_EWYT-B	08/03/2022	NASH_HP 1.08.A	First Edition Revision of address for Collective Housing Added Variable Primary Flow
D-EIGOC00207-23EN_EWYT-B	25/09/2023	NASH_HP_2.00.B	Added Evaporator Fixed Speed Setpoint in Variable Primary Flow. Added Performance Monitoring data.

2.2 Notice

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- **Modbus** from Schneider Electric (originally from Modicon)
- **MicroTech III** from Daikin Applied Europe.
- **MicroTech 4** from Daikin Applied Europe.

2.3 Before starting

Application range

This document refers to the following components:

Microtech III	Controller
Microtech 4	Controller
POL902.00/STD	Modbus MSTP module

Users

Users of this document are intended to be:

- Modbus systems integrators
- Service Technicians
- Plant Engineers
- Sales staff

Conventions

Microtech III e Microtech 4 further in this document and when proper will be referred to as "Microtech"

Abbreviation

BSP	Board Support Package (operating system)
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References

- Siemens Building Technologies - CB1J3960en - **Modbus** communication, slave mode
- Siemens Building Technologies - CB1Q3934en - Climatix TM **Modbus** communication modules POL902.00
- The Modbus Organization - www.modbus.org



3. Safety information

Only personnel qualified in accordance with IEC (International Electrotechnical Commission) recommendations may be permitted access to electrical components. It is particularly recommended that all sources of electricity to the unit be shut off before any work is begun. Shut off main power supply at the main circuit breaker or isolator.

IMPORTANT: This equipment uses and emits electromagnetic signals. Tests have shown that the equipment conforms to all applicable codes with respect to electromagnetic compatibility.



RISK OF ELECTROCUTION: Even when the main circuit breaker or isolator is switched off, certain circuits may still be energized, since they may be connected to a separate power source.



RISK OF BURNS: Electrical currents cause components to get hot either temporarily or permanently. Handle power cable, electrical cables and conduits, terminal box covers and motor frames with great care.

Field of application



Use Modbus communication module only for control and monitoring functions in ventilation, air conditioning and refrigeration plants.

Intended use



Trouble-free and safe product operation of the above products presupposes transport, storage, mounting, installation, and commissioning as intended as well as careful operation.

Electrical installation



Fuses, switches, wiring and grounding must comply with local safety regulations for electrical installations.

Wiring



When wiring, strictly separate AC 230 V mains voltage from AC 24 V safety extralow voltage (SELV) to protect against electrical shock!

Commissioning and maintenance



Only qualified staff trained accordingly may prepare for use, commission, and maintain Modbus communication modules.

Maintenance of Modbus communication modules generally only means regular cleaning. We recommend removing dust and dirt from system components installed in the control panels during standard service.

Faults



Only authorized staff may diagnose and correct faults and recommission the plant. This applies to working within the panel as well (e.g. testing or changing fuses).

Storage and transport



Refer to the environmental conditions specified in the respective data sheets for storage and transport. If in doubt, contact your supplier.

Disposal



Devices contain electrical and electronic components; do not dispose of them in household garbage. Observe all local and applicable laws.



4. Commission this unit in a Modbus network

4.1 General information

Unit controller is a Microtech III or a POL638

Microtech III controller can be integrated in a Modbus network provided that it is equipped with the proper communication module. See “Communication modules” section below in this page.

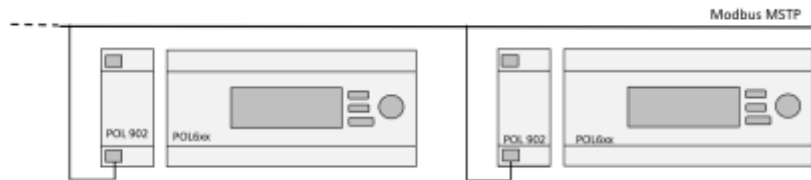
Unit controller is a Microtech 4

Microtech 4 controller can be integrated in a Modbus network provided one of the followings:

- a) it is equipped with the proper communication module
- b) the onboard communication has been made available (software option).

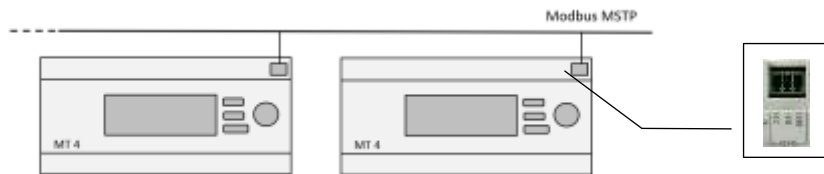
Modbus MSTP (POL902)

Communication module to configure Microtech controllers in Modbus network is the POL902:



Communication software option

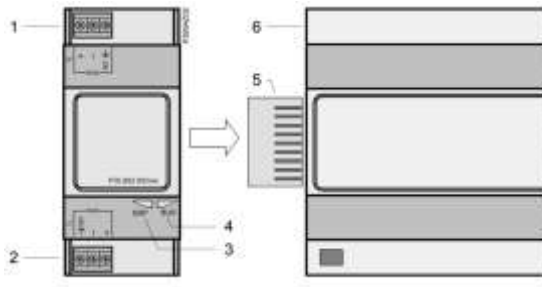
For Microtech 4, Modbus communication is also available onboard the controller as a software option.





4.2 Modbus MSTP module (POL902)

Module description



Part	Description
1	Modbus RS485 interface T1 (slave, channel 0).
2	Modbus RS485 interface T2 (slave, channel 1).
3	Status display "BSP" (Board Support Package).
4	Status display "BUS" (bus connections o.k. / bus traffic).
5	Plug connection "Communication extension bus".
6	Microtech III controller.

BSP Led

Color	Flashing frequency	Meaning
Green	Steady on	BSP operating and communication with controller working.
Yellow	Steady on	BSP operating, but no communication with controller.
Red	Steady on	Hardware fault.
Red/Yellow	Flashing at 1 Hz (1 second on/ 1 second off)	Upgrade mode running.
Red	Flashing at 2 Hz (0,5 second on/ 0,5 second off)	BSP error (software error).

BUS Led

Color	Flashing frequency	Meaning
Green	Steady on	Communication active.
Yellow	Steady on	Initializing
Red	Steady on	Communication interrupted.

Module connection

Step	Action
1	Power off the controller
2	Connect POL902 module to the controller via plug connection (part 5).
4	Power on the controller

Configuration procedure

Step	Action
1	Check that BUS led status is steady on green coloured.
2	Navigate the unit's keypad/display to the main menu page and set the "service" password
3	Navigate the unit's keypad/display following the path below: Main menu → Commissioning → Modbus
4	Set parameters in the table below as needed according to the local network

Configuration parameters

Parameter	Default value
Address T1	1
Parity T1	None
2 Stop bits T1	Yes
Baud rate T1	19200
Rspnce Dly T1	5 ms
Port T2	Passive
Address T2	1
Parity T2	None



2 Stop bits T2	Yes
Baud rate T2	19200
Rspnce Dly T2	5 ms



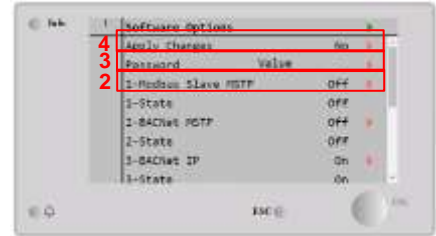
4.3 Modbus MSTP software option (Microtech 4)

Option enabling

1. From the HMI main menu choose:

Commissioning → Configuration → Software Options

2. Select “On” for option #1-Modbus Slave MSTP
3. Insert the unlock password
4. Apply Changes

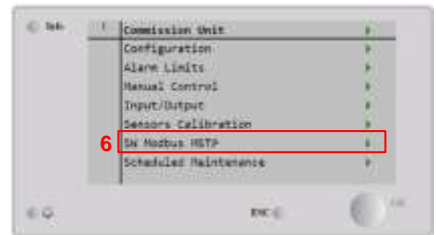


Option configuration

5. From the HMI main menu choose:

Commissioning →

6. Select “SW Modbus MSTP”



7. Select proper parameters for Modbus communication

Parameter	Default value
Address	Variable
Baudrate	19200
Parity	None
2StopBits	No
Delay	100 ms
Response Timeout	100 ms





5. Modbus integration list

Description	Type	Address	Gain	Range	Read/Write
Unit - Control Source	UNSIGNED WORD	1	1	0 Network 1 Local	R
Unit - Enabled State	UNSIGNED WORD	2	1	0 Disabled 1 Enabled	R
Unit - Run Allowed	UNSIGNED WORD	3	1	0 Off 1 Allowed	R
Unit - Capacity Limited	UNSIGNED WORD	4	1	0 NotLimited 1 Limited	R
Unit - Generic Alarm	UNSIGNED WORD	5	1	0 NoAlarm 1 Alarm	R
Evaporator - Water Flow State	UNSIGNED WORD	6	1	0 NoFlow 1 Flow	R
Unit - Operating State	UNSIGNED WORD	8	1	0 ThermoOff 1 ThermoOn	R
Unit - Enable Setpoint	UNSIGNED WORD	9	1	0 Disable 1 Enable	W
Unit - Alarm Reset Setpoint	UNSIGNED WORD	10	1	0 None 1 Clear	W
Unit - Active Operation Mode	UNSIGNED WORD	11	1	0 Ice 1 Cool 2 Heat 3 Pursuit	R
Unit - Active Temperature Setpoint	SIGNED WORD	12	0.1	°C	R



Description	Type	Address	Gain	Range	Read/Write
Unit - Actual Capacity	UNSIGNED WORD	13	0.1	%	R
Unit - Active Capacity Limit	UNSIGNED WORD	14	0.1	%	R
Unit - Status	UNSIGNED WORD	15	1	0 Off 1 Start 2 Run 3 PreShutdown 4 Service	R
Evaporator Entering Water Temperature	SIGNED WORD	16	0.1	°C	R
Evaporator Leaving Water Temperature	SIGNED WORD	17	0.1	°C	R
Heat Recovery - Enable Setpoint	UNSIGNED WORD	18	1	0 Disable 1 Enable	W
Heat Recovery - Entering Water Temperature	SIGNED WORD	22	0.1	°C	R
Heat Recovery - Leaving Water Temperature	SIGNED WORD	23	0.1	°C	R
Outside Air Temperature	SIGNED WORD	24	0.1	°C	R
Unit - Average Current	UNSIGNED WORD	25	1	A	R
Unit - Average Voltage	UNSIGNED WORD	26	0.1	V	R
Unit - Active Power	UNSIGNED WORD	27	0.1	kW	R
Unit Alarm - Warning Index	UNSIGNED WORD	28	1	0....65534	R
Unit Alarm - Problem Index	UNSIGNED WORD	29	1	0....65534	R
Unit Alarm - Fault Index	UNSIGNED WORD	30	1	0....65534	R
Unit Alarm - Warning Code	UNSIGNED WORD	31	1	0....65534	R
Unit Alarm - Problem Code	UNSIGNED WORD	32	1	0....65534	R
Unit Alarm - Fault Code	UNSIGNED WORD	33	1	0....65534	R



Description	Type	Address	Gain	Range	Read/Write
Unit - Operation Mode Setpoint	UNSIGNED WORD	34	1	0 NULL 1 Ice 2 Cool 3 Heat 4 Pursuit	W
Unit - Cool Temperature Setpoint	SIGNED WORD	35	0.1	°C	W
Unit - Ice Temperature Setpoint	SIGNED WORD	36	0.1	°C	W
Unit - Heat Temperature Setpoint	SIGNED WORD	37	0.1	°C	W
Unit - Capacity Limit Setpoint	UNSIGNED WORD	38	0.1	%	W
Circuit 1 - Condenser Refrigerant Pressure	SIGNED WORD	39	0.1	kPa	R
Circuit 1 - Condenser Saturated Temperature	SIGNED WORD	40	0.1	°C	R
Circuit 1 - Evaporator Refrigerant Pressure	SIGNED WORD	41	0.1	kPa	R
Circuit 1 - Evaporator Saturated Temperature	SIGNED WORD	42	0.1	°C	R
Circuit 2 - Condenser Refrigerant Pressure	SIGNED WORD	43	0.1	kPa	R
Circuit 2 - Condenser Saturated Temperature	SIGNED WORD	44	0.1	°C	R
Circuit 2 - Evaporator Refrigerant Pressure	SIGNED WORD	45	0.1	kPa	R
Circuit 2 - Evaporator Saturated Temperature	SIGNED WORD	46	0.1	°C	R
Circuit 1 - Shutdown Alarm	UNSIGNED WORD	51	1	1 NoAlarm 2 Alarm	R
Circuit 2 - Shutdown Alarm	UNSIGNED WORD	52	1	1 NoAlarm 2 Alarm	R
Unit - Shutdown Alarm	UNSIGNED WORD	54	1	1 NoAlarm 2 Alarm	R
Heat Recovery - Temperature Setpoint	SIGNED WORD	59	0.1	°C	W



Description	Type	Address	Gain	Range	Read/Write
Heat Recovery - Operating State	UNSIGNED WORD	60	1	0 Off 1 Recirculation 2 Regulation	R
Defrost - Operating State	UNSIGNED WORD	62	1	bit 0 None bit 1 Defrost On C1 bit 2 Defrost On C2	R
Circ 1 Compressor 1 - Suction Temperature	SIGNED WORD	65	0.1	°C	R
Circ 1 Compressor 1 - Discharge Temperature	SIGNED WORD	68	0.1	°C	R
Circ 1 Compressor 1 - Number of Starts	UNSIGNED WORD	73	1	-	W
Circ 1 Compressor 1 - Number of Running Hours	UNSIGNED DOUBLE	74-75	1	h	W
Circ 1 Compressor 2 - Number of Starts	UNSIGNED WORD	86	1	-	W
Circ 1 Compressor 2 - Number of Running Hours	UNSIGNED DOUBLE	87-88	1	h	W
Circ 1 Compressor 3 - Number of Starts	UNSIGNED WORD	99	1	-	W
Circ 1 Compressor 3 - Number of Running Hours	UNSIGNED DOUBLE	100-101	1	h	W
Circ 2 Compressor 1 - Suction Temperature	SIGNED WORD	104	0.1	°C	R
Circ 2 Compressor 1 - Discharge Temperature	SIGNED WORD	107	0.1	°C	R
Circ 2 Compressor 1 - Number of Starts	UNSIGNED WORD	112	1	-	W
Circ 2 Compressor 1 - Number of Running Hours	UNSIGNED DOUBLE	113-114	1	h	W
Circ 2 Compressor 2 - Number of Starts	UNSIGNED WORD	125	1	-	W
Circ 2 Compressor 2 - Number of Running Hours	UNSIGNED DOUBLE	126-127	1	h	W
Circ 2 Compressor 3 - Number of Starts	UNSIGNED WORD	138	1	-	W
Circ 2 Compressor 3 - Number of Running Hours	UNSIGNED DOUBLE	139-140	1	h	W
Collective Housing - Changeover Temp. Upper Limit	SIGNED WORD	255	0.1	°C	R
Collective Housing - Changeover Temp. Lower Limit	SIGNED WORD	256	0.1	°C	R



Description	Type	Address	Gain	Range	Read/Write
Collective Housing - Controlled Temperature	SIGNED WORD	257	0.1	°C	R
Performance - Unit Thermal Capacity	UNSIGNED DOUBLE	260-261	0.1	kW	R
Performance - Unit Power Input	UNSIGNED DOUBLE	262-263	0.1	kW	R
Performance - Unit Efficiency	UNSIGNED WORD	264	0.01	-	R
Performance - Unit Thermal Energy	UNSIGNED DOUBLE	266-267	0.1	MWh	R
Performance - Unit Electrical Energy	UNSIGNED DOUBLE	268-269	0.1	MWh	R
Evaporator Pump - Speed	UNSIGNED WORD	296	1	%	R
Evaporator Pump 1 - Number of Running Hours	UNSIGNED DOUBLE	303-304	1	h	R
Evaporator Pump 1 - Operating State	UNSIGNED WORD	305	1	0 Stop 1 Run	R
Evaporator Pump 2 - Number of Running Hours	UNSIGNED DOUBLE	306-307	1	h	R
Evaporator Pump 2 - Operating State	UNSIGNED WORD	308	1	0 Stop 1 Run	R
Unit - Measurement unit setpoint	UNSIGNED WORD	316	1	0 English 1 Metric	W
Unit - Model	UNSIGNED WORD	317	1	1 Centrifugal 2 Water Cooled 3 Air Cooled 4 HeatPump 5 Reserved 6 Reserved 7 Reserved 8 Reserved 9 Other	R



Description	Type	Address	Gain	Range	Read/Write
Unit Alarm - Condenser Entering Temperature Sensor Fault	UNSIGNED WORD	365	1	0 NoAlarm 1 Alarm	R
Unit Alarm - Evaporator Entering Temperature Sensor Fault	UNSIGNED WORD	366	1	0 NoAlarm 1 Alarm	R
Unit Alarm - Condenser Leaving Temperature Sensor Fault	UNSIGNED WORD	368	1	0 NoAlarm 1 Alarm	R
Unit Warning - Setpoint Reset Input Out of Range	UNSIGNED WORD	377	1	0 NoAlarm 1 Alarm	R
Unit Warning - Demand Limit Input Out of Range	UNSIGNED WORD	378	1	0 NoAlarm 1 Alarm	R
Circuit 1 Warning - Unload for Condenser High Pressure	UNSIGNED WORD	395	1	0 NoAlarm 1 Alarm	R
Circuit 2 Warning - Unload for Condenser High Pressure	UNSIGNED WORD	396	1	0 NoAlarm 1 Alarm	R
Circuit 1 Warning - Inhibition for Evaporator Low Pressure	UNSIGNED WORD	411	1	0 NoAlarm 1 Alarm	R
Circuit 2 Warning - Inhibition for Evaporator Low Pressure	UNSIGNED WORD	412	1	0 NoAlarm 1 Alarm	R
Circuit 1 Warning - Unload for Evaporator Low Pressure	UNSIGNED WORD	416	1	0 NoAlarm 1 Alarm	R
Circuit 2 Warning - Unload for Evaporator Low Pressure	UNSIGNED WORD	417	1	0 NoAlarm 1 Alarm	R
Evaporator Pump 1 - Fault	UNSIGNED WORD	430	1	0 NoAlarm 1 Alarm	R
Evaporator Pump 2 - Fault	UNSIGNED WORD	431	1	0 NoAlarm 1 Alarm	R



Description	Type	Address	Gain	Range	Read/Write
Unit Alarm - Outside Air Temperature Sensor Fault	UNSIGNED WORD	446	1	0 NoAlarm 1 Alarm	R
Circ 1 Comp 1 Alarm - Motor Protection	UNSIGNED WORD	466	1	0 NoAlarm 1 Alarm	R
Circ 1 Comp 2 Alarm - Motor Protection	UNSIGNED WORD	467	1	0 NoAlarm 1 Alarm	R
Circ 2 Comp 1 Alarm - Motor Protection	UNSIGNED WORD	468	1	0 NoAlarm 1 Alarm	R
Circ 2 Comp 2 Alarm - Motor Protection	UNSIGNED WORD	469	1	0 NoAlarm 1 Alarm	R
Circ 1 Comp 3 Alarm - Motor Protection	UNSIGNED WORD	470	1	0 NoAlarm 1 Alarm	R
Circ 2 Comp 3 Alarm - Motor Protection	UNSIGNED WORD	471	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Condenser Pressure Sensor Fault	UNSIGNED WORD	509	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Condenser Pressure Sensor Fault	UNSIGNED WORD	511	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Condenser High Pressure	UNSIGNED WORD	517	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Condenser High Pressure	UNSIGNED WORD	519	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Discharge Temperature Sensor Fault	UNSIGNED WORD	529	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Discharge Temperature Sensor Fault	UNSIGNED WORD	531	1	0 NoAlarm 1 Alarm	R



Description	Type	Address	Gain	Range	Read/Write
Unit Alarm - Evaporator Water Flow Loss	UNSIGNED WORD	542	1	0 NoAlarm 1 Alarm	R
Unit Alarm - Evaporator Water Freeze	UNSIGNED WORD	543	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Evaporator Pressure Low	UNSIGNED WORD	545	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Evaporator Pressure Low	UNSIGNED WORD	547	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Evaporator Pressure Sensor Failure	UNSIGNED WORD	552	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Evaporator Pressure Sensor Failure	UNSIGNED WORD	554	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Too many restart	UNSIGNED WORD	583	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Too many restart	UNSIGNED WORD	585	1	0 NoAlarm 1 Alarm	R
Unit Alarm - Evaporator Leaving Temperature Sensor Fault	UNSIGNED WORD	589	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Mechanical High Pressure	UNSIGNED WORD	601	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Mechanical High Pressure	UNSIGNED WORD	603	1	0 NoAlarm 1 Alarm	R
Circ 1 Comp 1 Alarm - Suction Temperature Sensor Fault	UNSIGNED WORD	698	1	0 NoAlarm 1 Alarm	R
Circ 2 Comp 1 Alarm - Suction Temperature Sensor Fault	UNSIGNED WORD	700	1	0 NoAlarm 1 Alarm	R



Description	Type	Address	Gain	Range	Read/Write
Controller Alarm - Circuit 1 Board Offline	UNSIGNED WORD	723	1	0 NoAlarm 1 Alarm	R
Controller Alarm - Circuit 2 Board Offline	UNSIGNED WORD	724	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Pumpdown Failure	UNSIGNED WORD	741	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Pumpdown Failure	UNSIGNED WORD	742	1	0 NoAlarm 1 Alarm	R
Unit Alarm - External Event	UNSIGNED WORD	745	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - No Pressure change at Start	UNSIGNED WORD	747	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - No Pressure change at Start	UNSIGNED WORD	748	1	0 NoAlarm 1 Alarm	R
Unit Alarm - External Alarm	UNSIGNED WORD	800	1	0 NoAlarm 1 Alarm	R
Unit Alarm - Wrong Phase Voltage	UNSIGNED WORD	816	1	0 NoAlarm 1 Alarm	R
Circuit 1 Alarm - Gas Leakage	UNSIGNED WORD	844	1	0 NoAlarm 1 Alarm	R
Circuit 2 Alarm - Gas Leakage	UNSIGNED WORD	845	1	0 NoAlarm 1 Alarm	R
Unit - Electrical Panel Temperature	SIGNED WORD	850	0.1	°C	R
Unit Warning - Electrical Panel Temp Sensor Fault	UNSIGNED WORD	851	1	0 NoAlarm 1 Alarm	R



Description	Type	Address	Gain	Range	Read/Write
Unit Warning - Electrical Panel High Temperature	UNSIGNED WORD	852	1	0 NoAlarm 1 Alarm	R
Circ 2 Compressor 3 - OffAuto Setpoint	UNSIGNED WORD	1775	1	0 Off 1 Auto	W
Circ 2 Compressor 3 - Operating State	UNSIGNED WORD	1786	1	0 Off 1 On	R
Circ 2 Compressor 2 - OffAuto Setpoint	UNSIGNED WORD	1788	1	0 Off 1 Auto	W
Circ 2 Compressor 2 - Operating State	UNSIGNED WORD	1799	1	0 Off 1 On	R
Circ 2 Compressor 1 - Actual Capacity	UNSIGNED WORD	1800	0.1	%	R
Circ 2 Compressor 1 - OffAuto Setpoint	UNSIGNED WORD	1801	1	0 Off 1 Auto	W
Circ 2 Compressor 1 - Operating State	UNSIGNED WORD	1812	1	0 Off 1 On	R
Circ 1 Compressor 3 - OffAuto Setpoint	UNSIGNED WORD	1814	1	0 Off 1 Auto	W
Circ 1 Compressor 3 - Operating State	UNSIGNED WORD	1825	1	0 Off 1 On	R
Circ 1 Compressor 2 - OffAuto Setpoint	UNSIGNED WORD	1827	1	0 Off 1 Auto	W
Circ 1 Compressor 2 - Operating State	UNSIGNED WORD	1838	1	0 Off 1 On	R
Circ 1 Compressor 1 - Actual Capacity	UNSIGNED WORD	1840	0.1	%	R
Circ 1 Compressor 1 - OffAuto Setpoint	UNSIGNED WORD	1841	1	0 Off 1 Auto	W



Description	Type	Address	Gain	Range	Read/Write
Circ 1 Compressor 1 - Operating State	UNSIGNED WORD	1852	1	0 Off 1 On	R
Unit - Number of Circuits	UNSIGNED WORD	1855	1	1...2	R
Unit - Number of Compressors	UNSIGNED WORD	1856	1	1...3	R
Unit - Number of Tons	UNSIGNED WORD	1857	1	tons	R
Circuit 2 - Evaporator Superheat Active Setpoint	SIGNED WORD	1896	0.1	dK	R
Circuit 1 - Evaporator Superheat Active Setpoint	SIGNED WORD	1897	0.1	dK	R
Circuit 2 - Evaporator Superheat Temperature	SIGNED WORD	1898	0.1	dK	R
Circuit 1 - Evaporator Superheat Temperature	SIGNED WORD	1899	0.1	dK	R
Unit - Active Energy	UNSIGNED DOUBLE	1900-1901	0.1	kWh	R
Unit - Power Factor	SIGNED WORD	1902	0.01	-	R
Variable Flow - Plant Differential Pressure	SIGNED WORD	1905	0.1	kPa	W
Varibale Flow - Water Bypass Valve State	UNSIGNED WORD	1906	1	0 Closed 1 Opened	R
Varibale Flow - Plant Differential Pressure setpoint	UNSIGNED WORD	1909	0.1	kPa	W
Variable Flow - Plant Delta Temperature	SIGNED WORD	1911	0.1	°Dc	R
Variable Flow - Plant Delta Temperature Setpoint	SIGNED WORD	1913	0.1	°Dc	W
Varibale Flow - Evaporator Fixed Speed Setpoint	SIGNED WORD	1915	1	%	W
Circuit 2 - Expansion Valve Position	UNSIGNED WORD	1966	1	%	R
Circuit 2 - Fan Speed	UNSIGNED WORD	1970	1	%	R
Circuit 2 - Condenser Approach Temperature	SIGNED WORD	1971	0.1	dK	R
Circuit 2 - Evaporator Approach Temperature	SIGNED WORD	1972	0.1	dK	R
Circuit 2 - Fan Staging	UNSIGNED WORD	1981	1	--	R
Circuit 1 - Expansion Valve Position	UNSIGNED WORD	1982	1	%	R
Circuit 1 - Fan Speed	UNSIGNED WORD	1986	1	%	R



Description	Type	Address	Gain	Range	Read/Write
Circuit 1 - Condenser Approach Temperature	SIGNED WORD	1987	0.1	dK	R
Circuit 1 - Evaporator Approach Temperature	SIGNED WORD	1988	0.1	dK	R
Circuit 1 - Fan Staging	UNSIGNED WORD	1997	1	--	R



5.1 Alarm Codes and Indexes

Premise Unit communicates to BAS the status alarm through Codes and Indexes. Those are grouped in 3 level of alarm

Levels of Alarm The three levels of alarms are as it follows:

Level	Description
Warning	They are notifications from unit or equipment of an incorrect status
Problem	They are notifications from unit or equipment of a status that does allow unit to work properly
Fault	They are notifications from unit or equipment (circuits, Compressors, Sensors, etc) that can cause stop of the unit or specific equipment

Index Index describes the general cause of the notification

Code Code describes which equipment or device of the unit is generating a notification

CODE	INDEX	LEVEL	Device	Description
257	1	Warning	Unit	Condenser Entering Water Temperature Sensor Failure
513	2	Warning	Unit	Evaporator Entering Water Temperature Sensor Failure
769	3	Warning	Unit	Liquid Line Refrigerant Temperature Sensor Failure
1025	4	Warning	Unit	Condenser Leaving Water Temperature Sensor Failure (STOP if Heat)
1281	5	Warning	Unit	Evaporator pump maintenance
1537	6	Warning	Unit	Condenser pump maintenance
1829	7	Warning	C1.Comp1	Compressor maintenance #n
1833			C1.Comp2	
1837			C1.Comp3	
1861			C2.Comp1	
1865			C2.Comp2	
1869			C2.Comp3	



CODE	INDEX	LEVEL	Device	Description
2049	8	Warning	Unit	Bad setpoint override input
2305	9	Warning	Unit	Bad demand limit input
2561	10	Warning	Unit	Power Loss While Running
2817	11	Warning	Unit	Unit Power Restore
3105	12	Warning	Circuit 1	Circuit Failed Pumpdown
3137			Circuit 2	
3329	13	Warning	Unit	External Event
3585	14	Warning	Unit	Bad Current Limit Input
3841	15	Warning	Unit	Option Controller Communication Failed
4128	16	Warning	Circuit 1	Low Refrigerant Charge
4160			Circuit 2	
4352	17	Warning	Unit	Chiller network Communication Failure
6177	24	Warning	Circuit 1	Economizer Pressure Sensor Fault #n
6209			Circuit 2	
6433	25	Warning	Circuit 1	Economizer Temperature Sensor Fault #n
6465			Circuit 2	
6689	26	Warning	Circuit 1	Economizer EXV Motor Fault
6721			Circuit 2	
7169	28	Warning	Unit	Economizer EXV Module Communications Fault
7461	29	Warning	C1.Comp1	Hot Gas Bypass Fault
7465		Warning	C1.Comp2	
7493		Warning	C1.Comp1	
7497		Warning	C1.Comp2	
7681	30	Warning	Unit	Energy Meter Communication Failure
9729	38	Warning	Unit	Heat Recovery Entering Water Temperature Sensor Fault
9985	39	Warning	Unit	Heat Recovery Leaving Water Temperature Sensor Fault



CODE	INDEX	LEVEL	Device	Description
10241	40	Warning	Unit	SwitchBox Temperature High
10497	41	Warning	Unit	SwitchBox Temperature Sesnor Fault
10785	42	Warning	Circuit 1	Defrost EXV Motor Fault
10817		Warning	Circuit 2	
11009	43	Warning	Unit	Heat Recovery EWT or LWT freeze
11265	44	Warning	Unit	Heat Recovery Water Temperature Inverted
11553	45	Warning	Circuit 1	Liquid Refrigerant Temperature Sensor Fault
11585		Warning	Circuit 2	

PROBLEM

16418	64	Problem	Circuit 1	Power Loss While Running #n
16450			Crcuit 2	
16642	65	Problem	Unit	START INHIBITED - Ambient Temperature Low
16898	66	Problem	Unit	INHIBIT LOAD – Condenser Pressure High
17186	67	Problem	Circuit 1	INHIBIT LOAD – Condenser Pressure High #n
17218			Crcuit 2	
17410	68	Problem	Unit	UNLOAD – Condenser Pressure High
17698	69	Problem	Circuit 1	UNLOAD – Condenser Pressure High #n
17730			Crcuit 2	
18178	71	Problem	Pump 1	PUMP START ATTEMPTED - Condenser Pump #1 Failure
18434	72	Problem	Pump 2	PUMP START ATTEMPTED - Condenser Pump #2 Failure
18722	73	Problem	Circuit 1	INHIBIT LOAD - Discharge Temperature High #n
18754			Crcuit 2	
18946	74	Problem	Unit	NO EWT RESET - Entering Evaporator Temperature Sensor Failure
19202	75	Problem	Unit	INHIBIT LOAD - Evaporator Pressure Low
19490	76	Problem	Circuit 1	INHIBIT LOAD - Evaporator Pressure Low #n
19522			Crcuit 2	



CODE	INDEX	LEVEL	Device	Description
19714	77	Problem	Unit	UNLOAD - Evaporator Pressure Low
20002	78	Problem	Circuit 1	UNLOAD - Evaporator Pressure Low #n
20034			Crcuit 2	
20262	79	Problem	C1.Comp1	UNLOAD - Compressor Motor Current High #n
20266			C1.Comp2	
20294			C2.Comp1	
20298			C2.Comp2	
20513	80	Problem	Circuit 1	UNLOAD - Discharge Temperature High
20545		Problem	Crcuit 2	
20738	81	Problem	Pump 1	PUMP START ATTEMPTED - Evaporator Pump #1 Failure
20994	82	Problem	Pump 2	PUMP START ATTEMPTED - Evaporator Pump #2 Failure
21250	83	Problem	Unit	(Check Chiller Display for Cause)
21542	84	Problem	C1.Comp1	INHIBIT LOAD - Compressor Motor Current High #n
21546			C1.Comp2	
21574			C2.Comp1	
21578			C2.Comp2	
21763	85	Problem	Unit	UNLOAD - Power Holes
22050	86	Problem	Circuit 1	INHIBIT FREECOOLING - Wrong Valve Position
22082		Problem	Crcuit 2	
FAULT				
1027	4	Fault	Unit	Condenser Leaving Water Temperature Sensor Failure
5671	22	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Sump Temperature High
5675		Fault	C1.Comp2	
5703		Fault	C2.Comp1	
5707		Fault	C2.Comp2	
6691	26	Fault	Circuit 1	CIRCUIT SHUTDOWN - Eco EXV Alarm



CODE	INDEX	LEVEL	Device	Description
6723		Fault	Circuit 2	
6947	27	Fault	Circuit 1	CIRCUIT SHUTDOWN - Fans Fault Alarm
6979		Fault	Circuit 2	
9251	36	Fault	Circuit 1	CIRCUIT SHUTDOWN - EXV Alarm
9283		Fault	Circuit 2	
26151	102	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Discharge Pressure Sensor Fault
26155			C1.Comp2	
26407	103	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Suction Pressure Low
26411			C1.Comp2	
26663	104	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Discharge Pressure High
26667			C1.Comp2	
27943	109	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Surge Temperature
27947			C1.Comp2	
31015	121	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Suction Pressure Sensor Fault
31019			C1.Comp2	
32551	127	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Low pressure ratio #n
32555			C1.Comp2	
32583			C2.Comp1	
32587			C2.Comp2	
32771	128	Fault	Unit	UNIT SHUTDOWN - Outside Air Temperature Sensor Fault
33063	129	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Current Overload Trip #n
33067			C1.Comp2	
33095			C2.Comp1	
33099			C2.Comp2	
33063	129	Fault	Circuit 1	CIRCUIT SHUTDOWN - Motor Current High
33095			Circuit 2	



CODE	INDEX	LEVEL	Device	Description
33795	132	Fault	Unit	UNIT SHUTDOWN - Motor Protector Trip
34087	133	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Motor Protector Trip #n
34091			C1.Comp2	
34119			C2.Comp1	
34123			C2.Comp2	
34083	133	Fault	Circuit 1	CIRCUIT SHUTDOWN - Motor Protector Trip
34115			Circuit 2	
34343	134	Fault	C1.Comp1	Compressor overload #n
34347			C1.Comp2	
34375			C2.Comp1	
34379			C2.Comp2	
34599	135	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Motor Temperature High #n
34603			C1.Comp2	
34631			C2.Comp1	
34635			C2.Comp2	
34855	136	Fault	C1.Comp1	Compressor Shutdown - Motor Temperature Sensor Fault #n
34859			C1.Comp2	
34887			C2.Comp1	
34891			C2.Comp2	
35111	137	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Phase Loss #n
35115			C1.Comp2	
35143			C2.Comp1	
35147			C2.Comp2	
35367	138	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Phase Reversal #n
35371			C1.Comp2	
35399			C2.Comp1	



CODE	INDEX	LEVEL	Device	Description
35403			C2.Comp2	
35623	139	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Overvoltage #n
35627			C1.Comp2	
35655			C2.Comp1	
35659			C2.Comp2	
35879				
35883	140	Fault	C1.Comp2	
35911			C2.Comp1	
35915			C2.Comp2	
36099	141	Fault	Unit	COMPRESSOR SHUTDOWN - Condenser Pressure Sensor Fault
36391	142	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Condenser Pressure Sensor Fault #n
36935			C1.Comp2	
36423			C2.Comp1	
36427			C2.Comp2	
36387	142	Fault	Circuit 1	CIRCUIT SHUTDOWN - Condenser Pressure Sensor Fault #n
36419			Circuit 2	
36611	143	Fault	Unit	COMPRESSOR SHUTDOWN - Condenser Water Flow Loss
36867	144	Fault	Unit	COMPRESSOR SHUTDOWN - Condenser Pressure High
37159	145	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Condenser Pressure High #n
37163			C1.Comp2	
37191			C2.Comp1	
37195			C2.Comp2	
37155	145	Fault	Circuit 1	CIRCUIT SHUTDOWN - Condenser Pressure High #n
37187			Circuit 2	
37415	146	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Current High with Compressor OFF #n
37419			C1.Comp2	



CODE	INDEX	LEVEL	Device	Description
37447			C2.Comp1	
37451			C2.Comp2	
37671	147	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Discharge Temperature Sensor Fault #n
37675			C1.Comp2	
37703			C2.Comp1	
37707			C2.Comp2	
37927	148	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Discharge Temperature High #n
37931			C1.Comp2	
37959			C2.Comp1	
37963			C2.Comp2	
38147	149	Fault	Unit	UNIT SHUTDOWN - Condenser Entering Water Temperature Sensor Fault
38403	150	Fault	Unit	UNIT SHUTDOWN - Evaporator Water Flow Loss
38659	151	Fault	Unit	UNIT SHUTDOWN - Evaporator LWT or EWT Low (Freeze)
38915	152	Fault	Unit	COMPRESSOR SHUTDOWN - Evaporator Pressure Low
39207	153	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Evaporator (or Suction) Pressure Low #n
39211			C1.Comp2	
39239			C2.Comp1	
39243			C2.Comp2	
39203	153	Fault	Circuit 1	CIRCUIT SHUTDOWN - Evaporator (or Suction) Pressure Low
39235			Circuit 2	
39427	154	Fault	Unit	COMPRESSOR SHUTDOWN - Evaporator Pressure Sensor Fault
39719	155	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Evaporator Pressure Sensor Fault #n
39723			C1.Comp2	
39751			C2.Comp1	
39755			C2.Comp2	



CODE	INDEX	LEVEL	Device	Description
39715	155	Fault	Circuit 1	CIRCUIT SHUTDOWN - Evaporator Pressure Sensor Fault #n
39747			Circuit 2	
39975	156	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Ground Fault Trip #n
39979			C1.Comp2	
40007			C2.Comp1	
40011			C2.Comp2	
40231	157	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Lift Pressure Low #n
40235			C1.Comp2	
40263			C2.Comp1	
40267			C2.Comp2	
40487	158	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Liquid Line Pressure Sensor Fault #n
40491			C1.Comp2	
40519			C2.Comp1	
40523			C2.Comp2	
40739	159	Fault	Circuit 1	CIRCUIT SHUTDOWN - Liquid Line Temperature Sensor Fault #n
40771			Circuit 2	
40963	160	Fault	Unit	UNIT LOCKOUT - Number of Allowed Re-Starts Exceeded
41255	161	Fault	C1.Comp1	COMPRESSOR LOCKOUT - Number of Allowed Re-Starts Exceeded #n
41259			C1.Comp2	
41287			C2.Comp1	
41291			C2.Comp2	
41251	161	Fault	Circuit 1	CIRCUIT LOCKOUT - Number of Allowed Re-Starts Exceeded #n
41283			Circuit 2	
41475	162	Fault	Unit	UNIT SHUTDOWN - Evaporator Leaving Water Temperature Sensor Fault
41731	163	Fault	Unit	UNIT SHUTDOWN - Evaporator Entering Water Temperature Sensor Fault



CODE	INDEX	LEVEL	Device	Description
42023	164	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Evaporator Leaving Water Temperature Sensor Fault #n
42027			C1.Comp2	
42055			C2.Comp1	
42059			C2.Comp2	
42019	164	Fault	Circuit 1	CIRCUIT SHUTDOWN - Evaporator Leaving Water Temperature Sensor Fault #n
42051			Circuit 2	
42243	165	Fault	Unit	UNIT STOP - Mechanical High Pressure Trip
42535	166	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Mechanical High Pressure Trip #n
42539			C1.Comp2	
42567			C2.Comp1	
42571			C2.Comp2	
42531	166	Fault	Circuit 1	CIRCUIT SHUTDOWN - Mechanical High Pressure Trip #n
42563			Circuit 2	
42791	167	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Net Pressure Low #n
42795			C1.Comp2	
42823			C2.Comp1	
42827			C2.Comp2	
43047	168	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Feed Temperature High #n
43051			C1.Comp2	
43079			C2.Comp1	
43083			C2.Comp2	
43303	169	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Feed Temperature Low #n
43307			C1.Comp2	
43335			C2.Comp1	
43339			C2.Comp2	
43559	170	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Feed Temperature Sensor Fault #n



CODE	INDEX	LEVEL	Device	Description
43563			C1.Comp2	
43591			C2.Comp1	
43595			C2.Comp2	
43815	171	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Level Low #n
43819			C1.Comp2	
43847			C2.Comp1	
43851			C2.Comp2	
44071	172	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Delta Pressure High #n
44075			C1.Comp2	
44103			C2.Comp1	
44107			C2.Comp2	
44327	173	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Feed Pressure Sensor Fault #n
44331			C1.Comp2	
44359			C2.Comp1	
44363			C2.Comp2	
44583	174	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Sump Pressure Sensor Fault #n
44587			C1.Comp2	
44615			C2.Comp1	
44619			C2.Comp2	
44839	175	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Oil Sump Temperature Sensor Fault #n
44843			C1.Comp2	
44871			C2.Comp1	
44875			C2.Comp2	
45059	176	Fault	Unit	SHUTDOWN – Phase Voltage Protection
45091			Circuit 1	
45123			Circuit 2	



CODE	INDEX	LEVEL	Device	Description
45351	177	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Starter Fault Compressor #n
45355			C1.Comp2	
45383			C2.Comp1	
45387			C2.Comp2	
45607	178	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - No Starter Transition #n
45611			C1.Comp2	
45639			C2.Comp1	
45643			C2.Comp2	
45863	179	Fault	C1.Comp1	COMPRESSOR START ABORT - Oil Pressure Low #n
45867			C1.Comp2	
45895			C2.Comp1	
45899			C2.Comp2	
46119	180	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Subcooling Low #n
46123			C1.Comp2	
46151			C2.Comp1	
46155			C2.Comp2	
46375	181	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Surge Suction Superheat High-Running #n
46379			C1.Comp2	
46417			C2.Comp1	
46411			C2.Comp2	
46631	182	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Surge Suction Superheat High-Starting #n
46635			C1.Comp2	
46663			C2.Comp1	
46667			C2.Comp2	
46887	183	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Suction Temperature Sensor Fault #n
46891			C1.Comp2	



CODE	INDEX	LEVEL	Device	Description
46919			C2.Comp1	
46923			C2.Comp2	
46883	183	Fault	Circuit 1	CIRCUIT SHUTDOWN - Suction Temperature Sensor Fault #n
46915			Circuit 2	
47143	184	Fault	C1.Comp1	COMPRESSOR START ABORT - Vanes Open OR No Start – Interlock Switch #n
47147			C1.Comp2	
47175			C2.Comp1	
47179			C2.Comp2	
47399	185	Fault	C1.Comp1	COMPRESSOR SHUTDOWN – Compressor Fault #n
47403			C1.Comp2	
47431			C2.Comp1	
47435			C2.Comp2	
47619	186	Fault	Unit	UNIT STOP - Mechanical Low Pressure Trip
47911	187	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Mechanical Low Pressure Trip #n
47915			C1.Comp2	
47943			C2.Comp1	
47947			C2.Comp2	
48131	188	Fault	Unit	Controller board offline #n (Circuit number describe Control board number. 0=Unit alarm for Alarm/Limit extension module)
48163			Circuit 1	
48195			Circuit 2	
48419	189	Fault	Circuit 1	CIRCUIT SHUTDOWN - No Pressure Change After Start
48451			Circuit 2	
48675	190	Fault	Circuit 1	CIRCUIT SHUTDOWN - No Pressure at Startup
48707			Circuit 2	
48935	191	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Slide position sensor Fault #n
48939			C1.Comp2	



CODE	INDEX	LEVEL	Device	Description
48967			C2.Comp1	
48971			C2.Comp2	
49155	192	Fault	Unit	UNIT STOP - Emergency Stop Alarm
49411	193	Fault	Unit	UNIT STOP - Evaporator Water Temperatures Inverted
49667	194	Fault	Unit	UNIT STOP - External Alarm
49923	195	Fault	Unit	Evaporator Leaving Water Temperature 1 Sensor Fault
50179	196	Fault	Unit	Evaporator Leaving Water Temperature 2 Sensor Fault
50435	197	Fault	Unit	CIRCUIT SHUTDOWN - Evaporator 1 Freeze Protection
50691	198	Fault	Unit	CIRCUIT SHUTDOWN - Evaporator 2 Freeze Protection
50983	199	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - COMPRESSOR VFD Fault #n
50987			C1.Comp2	
51015			C2.Comp1	
51019			C2.Comp2	
51239	200	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - COMPRESSOR VFD Overheat Fault #n (This Fault is detected by Controller, not VFD)
51243			C1.Comp2	
51271			C2.Comp1	
51275			C2.Comp2	
51495	201	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - COM ERROR With COMPRESSOR VFD #n
51499			C1.Comp2	
51527			C2.Comp1	
51531			C2.Comp2	
51751	202	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Low Discharge Superheat #n
51755			C1.Comp2	
51783			C2.Comp1	
51787			C2.Comp2	
52007	203	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - VFD Undergrid



CODE	INDEX	LEVEL	Device	Description
52011		Fault	C1.Comp2	
52039		Fault	C2.Comp1	
52043		Fault	C2.Comp2	
52263	204	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - VFD Overgrid
52267		Fault	C1.Comp2	
52295		Fault	C2.Comp1	
52299		Fault	C2.Comp2	
52519	205	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Discharge Superheat Low #n
52523		Fault	C1.Comp2	
52551		Fault	C2.Comp1	
52555		Fault	C2.Comp2	
52739	206	Fault	Unit	UNIT SHUTDOWN - Gas Leakage
52771		Fault	Circuit 1	CIRCUIT SHUTDOWN - Gas Leakage
52803		Fault	Circuit 2	
52995	207	Fault	Unit	UNIT SHUTDOWN - Battery Mode
53251	208	Fault	Unit	UNIT SHUTDOWN - High Pitch (Marine)
53507	209	Fault	Unit	UNIT SHUTDOWN - High Roll (Marine)
53763	210	Fault	Unit	UNIT SHUTDOWN - Pitch Sensor Fault (Marine)
54019	211	Fault	Unit	UNIT SHUTDOWN - Roll Sensor Fault (Marine)
54275	212	Fault	Unit	UNIT SHUTDOWN - Evaporator Differenital Pressure Sensor Fault
54531	213	Fault	Unit	UNIT SHUTDOWN - Evaporator Differenital Pressure High
54787	214	Fault	Unit	UNIT SHUTDOWN - Condenser Differenital Pressure Sensor Fault
55043	215	Fault	Unit	UNIT SHUTDOWN - Condenser Differenital Pressure High
55335	216	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - VFD Card Temperature High
55339		Fault	C1.Comp2	
55367		Fault	C2.Comp1	



CODE	INDEX	LEVEL	Device	Description
55371		Fault	C2.Comp2	
55591	217	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - RLA High
55595		Fault	C1.Comp2	
55623		Fault	C2.Comp1	
55627		Fault	C2.Comp2	
55847		Fault	C1.Comp1	
55851	218	Fault	C1.Comp2	COMPRESSOR SHUTDOWN - RLA Low
55879		Fault	C2.Comp1	
55883		Fault	C2.Comp2	
56103	219	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - Surge Alarm
56107		Fault	C1.Comp2	
56135		Fault	C2.Comp1	
56139		Fault	C2.Comp2	
56323	220	Fault	Unit	UNIT SHUTDOWN - Evaporator Water Differential Pressure Low
56579	221	Fault	Unit	UNIT SHUTDOWN - Condenser Water Differential Pressure Low
56835	222	Fault	Unit	UNIT SHUTDOWN - Unit or Compressor not configured
57091	223	Fault	Unit	UNIT SHUTDOWN - Power Availability Alarm (Marine)
57347	224	Fault	Unit	UNIT SHUTDOWN - Freecooling water valves feedback Alarm
57635	225	Fault	Circuit 1	CIRCUIT SHUTDOWN - Freecooling Valves Feedback Alarm
57667		Fault	Circuit 2	
57895	226	Fault	C1.Comp1	COMPRESSOR SHUTDOWN - VFD Components to be replaced
57899		Fault	C1.Comp2	
57927		Fault	C2.Comp1	
57931		Fault	C2.Comp2	
58147	227	Fault	Circuit 1	CIRCUIT SHUTDOWN - Fans Communication Fail
58179		Fault	Circuit 2	



CODE	INDEX	LEVEL	Device	Description
59649	233	Fault	Unit	UNIT SHUTDOWN - Condenser LWT or EWT (freeze)



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