Industrial communication solutions for Windows

XVILTER Driver Manual

Vilter Compressors Protocol Driver

Contents

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XVILTER technical specifications

General information

XVILTER driver allows you to connect with VILTER compressors. The communication links from the PC to the Master Node is an RS-232 serial link. (Nodes are linked via RS485 Bitbus Network)

Command list

Reciprocating Compressor Commands

Read Compressor Status

Description of this command:
Reads the compressor status.
Methods used to run this command:
Digital Input
Number of points accepted by this command:
1-48
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
209
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Auto Mode.
Value in PointValue (1) = Manual Mode.
Value in PointValue (2) = Compressor On.
Value in PointValue (3) = Micro Selected (module 10 - remote/local select, local = 0).
Value in PointValue (4) = Host powerup byte.
Value in PointValue (5) = Central Mode (1=Central/0=Local).
Value in PointValue (6) = Alarm active.
Value in PointValue (7) = Trip active.
Value in PointValue (8) = Cmp waiting, suction pressure.
Value in PointValue (9) = Cmp waiting, process temperature.
Value in PointValue (10) = Cmp waiting, hot starts/hr.
Value in PointValue (11) = Cmp waiting, antirecycle timer.
Value in PointValue (12) = Cmp waiting, remote command.
Value in PointValue (13) = High suction pulldown control active.
Value in PointValue (14) = Not used.
Value in PointValue (15) = Not used.
Value in PointValue (16) = Suction temperature alarm.
Value in PointValue (17) = Discharge #1 temperature alarm.
Value in PointValue (18) = Oil temperature alarm.
Value in PointValue (19) = Discharge #2 temperature alarm.
Value in PointValue (20) = Suction pressure alarm.
Value in PointValue (21) = Discharge #1 pressure alarm.
Value in PointValue (22) = Filter outlet alarm.
Value in PointValue (23) = Discharge #2 pressure alarm.
Value in PointValue (24) = Oil pressure alarm.
Value in PointValue (25) = Filter pressure alarm.
Value in PointValue (26) = Low process temperature alarm.
Value in PointValue (27) = High process temperature alarm.
Value in PointValue (28) = Not used.
Value in PointValue (29) = Not used.
Value in PointValue (30) = Not used.

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Value in PointValue (31) = Not used.
Value in PointValue (32) = Suction temperature trip.
Value in PointValue (33) = Discharge #1 temperature trip.
Value in PointValue (34) = Oil temperature trip.
Value in PointValue (35) = Discharge #2 temperature trip.
Value in PointValue (36) = Suction pressure trip.
Value in PointValue (37) = Discharge #1 pressure trip.
Value in PointValue (38) = Filter outlet trip.
Value in PointValue (39) = Discharge #2 pressure trip.
Value in PointValue (40) = Oil pressure trip.
Value in PointValue (41) = Filter pressure trip.
Value in PointValue (42) = Low process temperature trip.
Value in PointValue (43) = Not used.
Value in PointValue (44) = Not used.
Value in PointValue (45) = Not used.
Value in PointValue (46) = Motor aux. safety trip.
Value in PointValue (47) = Aux. #1 safety relay trip.

Read Scaled Current Values

Description of this command:
Reads the scaled current values.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-28
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
210
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Suction temperature.
Value in PointValue (1) = Discharge 1 temperature.
Value in PointValue (2) = Oil temperature.
Value in PointValue (3) = Discharge 2 temperature.
Value in PointValue (4) = Suction pressure.
Value in PointValue (5) = Discharge 1 pressure.
Value in PointValue (6) = Filter outlet pressure.
Value in PointValue (7) = Filter inlet pressure.
Value in PointValue (8) = Not used.
Value in PointValue (9) = Not used.
Value in PointValue (10) = Not used.
Value in PointValue (11) = Discharge 2 pressure.
Value in PointValue (12) = Not used.
Value in PointValue (13) = Motor amps.
Value in PointValue (14) = Calculated oil pressure.
Value in PointValue (15) = Calculated filter differential pressure.
Value in PointValue (16) = Percent capacity.
Value in PointValue (17) = Not used.
Value in PointValue (18) = Not used.
Value in PointValue (19) = Not used.
Value in PointValue (20) = Not used.
Value in PointValue (21) = Not used.
Value in PointValue (22) = Not used.
Value in PointValue (23) = Not used.
Value in PointValue (24) = Sbx channel #1 temperature.
Value in PointValue (25) = Sbx channel #2 temperature.
Value in PointValue (26) = Sbx channel #3 temperature.
Value in PointValue (27) = Sbx channel #4 temperature.

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Read Trip Limits

Description of this command:
Reads the trip limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-38
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
211
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Suction temperature low trip.
Value in PointValue (1) = Suction temperature high trip.
Value in PointValue (2) = Discharge temperature low trip.
Value in PointValue (3) = Discharge temperature high trip.
Value in PointValue (4) = Oil temperature low trip.
Value in PointValue (5) = Oil temperature high trip.
Value in PointValue (6) = Discharge temperature #2 low trip.
Value in PointValue (7) = Discharge temperature #2 high trip.
Value in PointValue (8) = Suction pressure setpoint #1 low trip.
Value in PointValue (9) = Suction pressure setpoint #1 high trip.
Value in PointValue (10) = Suction pressure setpoint #2 low trip.
Value in PointValue (11) = Suction pressure setpoint #2 high trip.
Value in PointValue (12) = Discharge pressure setpoint #1 low trip.
Value in PointValue (13) = Discharge pressure setpoint #1 high trip.
Value in PointValue (14) = Discharge pressure setpoint #2 low trip.
Value in PointValue (15) = Discharge pressure setpoint #2 high trip.
Value in PointValue (16) = Filter outlet pressure low trip.
Value in PointValue (17) = Filter outlet pressure high trip.
Value in PointValue (18) = Filter inlet pressure low trip.
Value in PointValue (19) = Filter inlet pressure high trip.
Value in PointValue (20) = Ground low.
Value in PointValue (21) = Ground high.
Value in PointValue (22) = Spare low.
Value in PointValue (23) = Spare high.
Value in PointValue (24) = Spare low.
Value in PointValue (25) = Spare high.
Value in PointValue (26) = Discharge pressure #2 setpoint #1 low trip.
Value in PointValue (27) = Discharge pressure #2 setpoint #1 high trip.
Value in PointValue (28) = Discharge pressure #2 setpoint #2 low trip.
Value in PointValue (29) = Discharge pressure #2 setpoint #2 high trip.
Value in PointValue (30) = Oil pressure low trip.
Value in PointValue (31) = Oil pressure high trip.
Value in PointValue (32) = Filter differential low trip.
Value in PointValue (33) = Filter differential high trip.
Value in PointValue (34) = Low control temperature low trip (sbx chan#1).
Value in PointValue (35) = Low control temperature high trip (sbx chan#1).
Value in PointValue (36) = High control temperature low trip (sbx chan#1).
Value in PointValue (37) = High control temperature high trip (sbx chan#1).

Read Alarm Limits

Description of this command:
Reads the alarm limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-38

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Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
212
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Suction temperature low alarm.
Value in PointValue (1) = Suction temperature high alarm.
Value in PointValue (2) = Discharge temperature low alarm.
Value in PointValue (3) = Discharge temperature high alarm.
Value in PointValue (4) = Oil temperature low alarm.
Value in PointValue (5) = Oil temperature high alarm.
Value in PointValue (6) = Discharge temperature #2 low alarm.
Value in PointValue (7) = Discharge temperature #2 high alarm.
Value in PointValue (8) = Suction pressure setpoint #1 low alarm.
Value in PointValue (9) = Suction pressure setpoint #1 high alarm.
Value in PointValue (10) = Suction pressure setpoint #2 low alarm.
Value in PointValue (11) = Suction pressure setpoint #2 high alarm.
Value in PointValue (12) = Discharge pressure setpoint #1 low alarm.
Value in PointValue (13) = Discharge pressure setpoint #1 high alarm.
Value in PointValue (14) = Discharge pressure setpoint #2 low alarm.
Value in PointValue (15) = Discharge pressure setpoint #2 high alarm.
Value in PointValue (16) = Filter outlet pressure low alarm.
Value in PointValue (17) = Filter outlet pressure high alarm.
Value in PointValue (18) = Filter inlet pressure low alarm.
Value in PointValue (19) = Filter inlet pressure high alarm.
Value in PointValue (20) = Ground low.
Value in PointValue (21) = Ground high.
Value in PointValue (22) = Spare low.
Value in PointValue (23) = Spare high.
Value in PointValue (24) = Spare low.
Value in PointValue (25) = Spare high.
Value in PointValue (26) = Discharge pressure #2 setpoint #1 low alarm.
Value in PointValue (27) = Discharge pressure #2 setpoint #1 high alarm.
Value in PointValue (28) = Discharge pressure #2 setpoint #2 low alarm.
Value in PointValue (29) = Discharge pressure #2 setpoint #2 high alarm.
Value in PointValue (30) = Oil pressure low alarm.
Value in PointValue (31) = Oil pressure high alarm.
Value in PointValue (32) = Filter differential low alarm.
Value in PointValue (33) = Filter differential high alarm.
Value in PointValue (34) = Low control temperature low alarm
Value in PointValue (35) = Low control temperature high alarm
Value in PointValue (36) = High control temperature low alarm
Value in PointValue (37) = High control temperature high alarm

Read Reset Limits

Description of this command:
Reads the reset limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-32
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
213
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Suction temperature low reset.
Value in PointValue (1) = Suction temperature high reset.

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Value in PointValue (2) = Discharge temperature low reset.
Value in PointValue (3) = Discharge temperature high reset.
Value in PointValue (4) = Oil temperature low reset.
Value in PointValue (5) = Oil temperature high reset.
Value in PointValue (6) = Discharge temperature #2 low reset.
Value in PointValue (7) = Discharge temperature #2 high reset.
Value in PointValue (8) = Suction pressure setpoint #1 low reset.
Value in PointValue (9) = Suction pressure setpoint #1 high reset.
Value in PointValue (10) = Suction pressure setpoint #2 low reset.
Value in PointValue (11) = Suction pressure setpoint #2 high reset.
Value in PointValue (12) = Discharge pressure setpoint #1 low reset.
Value in PointValue (13) = Discharge pressure setpoint #1 high reset.
Value in PointValue (14) = Discharge pressure setpoint #2 low reset.
Value in PointValue (15) = Discharge pressure setpoint #2 high reset.
Value in PointValue (16) = Filter outlet pressure low reset.
Value in PointValue (17) = Filter outlet pressure high reset.
Value in PointValue (18) = Filter inlet pressure low reset.
Value in PointValue (19) = Filter inlet pressure high reset.
Value in PointValue (20) = Ground low.
Value in PointValue (21) = Ground high.
Value in PointValue (22) = Spare low.
Value in PointValue (23) = Spare high.
Value in PointValue (24) = Spare low.
Value in PointValue (25) = Spare high.
Value in PointValue (26) = Discharge pressure #2 setpoint #1 low reset.
Value in PointValue (27) = Discharge pressure #2 setpoint #1 high reset.
Value in PointValue (28) = Discharge pressure #2 setpoint #2 low reset.
Value in PointValue (29) = Discharge pressure #2 setpoint #2 high reset.
Value in PointValue (30) = Oil pressure low reset.
Value in PointValue (31) = Oil pressure high reset.
Value in PointValue (32) = Filter differential low reset.
Value in PointValue (33) = Filter differential high reset.
Value in PointValue (34) = Low control temperature low reset.
Value in PointValue (35) = Low control temperature high reset.
Value in PointValue (36) = High control temperature low reset.
Value in PointValue (37) = High control temperature high reset.

Read Control Limits

Description of this command:
Reads the control limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-31
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
214
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = High suction pressure unloader (pulldown) cutin, step 1.
Value in PointValue (1) = High suction pressure unloader (pulldown) cutout, step 1.
Value in PointValue (2) = High suction pressure unloader (pulldown) cutin, step 2.
Value in PointValue (3) = High suction pressure unloader (pulldown) cutout, step 2.
Value in PointValue (4) = High suction pressure unloader (pulldown) cutin, step 3.
Value in PointValue (5) = High suction pressure unloader (pulldown) cutout, step 3.
Value in PointValue (6) = High suction pressure unloader (pulldown) cutin, step 4.
Value in PointValue (7) = High suction pressure unloader (pulldown) cutout, step 4.
Value in PointValue (8) = High suction pressure unloader (pulldown) cutin, step 5.
Value in PointValue (9) = High suction pressure unloader (pulldown) cutout, step 5.
Value in PointValue (10) = High suction pressure unloader (pulldown) cutin, step 6.

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Value in PointValue (11) = High suction pressure unloader (pulldown) cutout, step 6.
Value in PointValue (12) = High suction pressure unloader (pulldown) cutin, step 7.
Value in PointValue (13) = High suction pressure unloader (pulldown) cutout, step 7.
Value in PointValue (14) = High suction pressure unloader (pulldown) cutin, step 8.
Value in PointValue (15) = High suction pressure unloader (pulldown) cutout, step 8.
Value in PointValue (16) = Suction pressure control setpoint.
Value in PointValue (17) = Suction pressure load deadband.
Value in PointValue (18) = Suction pressure unload deadband.
Value in PointValue (19) = Current transformer ratio.
Value in PointValue (20) = Not used. - Full load amps setpoint.
Value in PointValue (21) = Not used. - Maximum amps setpoint.
Value in PointValue (22) = Suction pressure on/off control cutin.
Value in PointValue (23) = Suction pressure on/off control cutout.
Value in PointValue (24) = Process temperature control setpoint.
Value in PointValue (25) = Process temperature load deadband.
Value in PointValue (26) = Process temperature unload deadband.
Value in PointValue (27) = Process temperature on/off control cutin.
Value in PointValue (28) = Process temperature on/off control cutout.
Value in PointValue (29) = Force lag off suction pressure setpoint.
Value in PointValue (30) = Force lag off suction process setpoint.

Read Timer Preset Values

Description of this command:
Reads the timer preset values.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-17
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
215
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Oil pressure bypass.
Value in PointValue (1) = Motor aux bypass.
Value in PointValue (2) = Maximum time @ minimum cap.
Value in PointValue (3) = Unload start.
Value in PointValue (4) = Compressor load time.
Value in PointValue (5) = Compressor unload time.
Value in PointValue (6) = Restart timer.
Value in PointValue (7) = Antirecycle timer.
Value in PointValue (8) = Auto restart pulse timer.
Value in PointValue (9) = Filter pressure bypass @ start.
Value in PointValue (10) = Discharge temperature bypass @ start.
Value in PointValue (11) = Start lag compressor time.
Value in PointValue (12) = Stop lag compressor time.
Value in PointValue (13) = Spare.
Value in PointValue (14) = Spare.
Value in PointValue (15) = Spare.
Value in PointValue (16) = Current hot starts count.

Read Compressor Runtime Tallies

Description of this command:
Reads the compressor runtime tallies.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-3

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Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
216
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Hours.
Value in PointValue (1) = Minutes.
Value in PointValue (2) = Seconds.

Read Event List

Description of this command:
Reads the event list.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-64
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
217
Meaning of the DriverP2 parameter:
0
Meaning of the DriverP3 parameter:
Defines the log page number (1-4).
Values that are returned:
Value in PointValue (0) = Event code.
Value in PointValue (1) = Hour (military time).
Value in PointValue (2) = Minutes.
Value in PointValue (3) = Seconds.
Value in PointValue (n-3) = Event code.
Value in PointValue (n-2) = Hour (military time).
Value in PointValue (n-1) = Minutes.
Value in PointValue (n) = Seconds. For a date change code, the format is:
Value in PointValue (x0) = Event code.
Value in PointValue (x1) = Month number.
Value in PointValue (x2) = Day.
Value in PointValue (x3) = Last 2 digits of year.
The event codes are:
- 0 = Low suction temperature alarm.
- 1 = High discharge #1 temperature alarm.
- 2 = High oil temperature alarm.
- 3 = High discharge #2 temperature alarm.
- 4 = Low suction pressure setpoint #1 alarm.
- 5 = Low suction pressure setpoint #2 alarm.
- 6 = High discharge #1 pressure setpoint #1 alarm.
- 7 = High discharge #1 pressure setpoint #2 alarm.
- 8 = Filter out pressure alarm.
- 9 = High discharge #2 pressure setpoint #1 alarm.
- 10 = High discharge #2 pressure setpoint #2 alarm.
- 11 = Low oil pressure alarm.
- 12 = High filter pressure alarm.
- 13 = Low process temperature alarm.
- 14 = High process temperature alarm.
- 32 = Low suction temperature trip.
- 33 = High discharge #1 temperature trip.
- 34 = High oil temperature trip.
- 35 = High discharge #2 temperature trip.
- 36 = Low suction pressure setpoint #1 trip.
- 37 = Low suction pressure setpoint #2 trip.
- 38 = High discharge #1 pressure setpoint #1 trip.

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- 39 = High discharge #1 pressure setpoint #2 trip.
- 40 = Filter out pressure trip.
- 41 = High discharge #2 pressure setpoint #1 trip.
- 42 = High discharge #2 pressure setpoint #2 trip.
- 43 = Low oil pressure trip.
- 44 = High filter pressure trip.
- 45 = Low process temperature trip.
- 46 = High process temperature trip.
- 61 = Low oil pressure failure.
- 62 = Motor overload failure.
- 63 = Auxiliary safety failure.
- 67 = Auto command received.
- 68 = Manual command received.
- 69 = Stop command received.
- 70 = Compressor started.
- 71 = Compressor stopped.
- 72 = Panel powered up.
- 73 = Panel powered down.
- 74 = Date change occurred.

Read Raw Values of Analog Input Channels

Description of this command:
Reads the raw values of analog input channels.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-18
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
218
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = channel 1, suction temperature.
Value in PointValue (1) = channel 2, discharge #1 temperature.
Value in PointValue (2) = channel 3, oil temperature.
Value in PointValue (3) = channel 4, discharge #2 temperature.
Value in PointValue (4) = channel 5, suction pressure.
Value in PointValue (5) = channel 6, discharge #1 pressure.
Value in PointValue (6) = channel 7, filter outlet pressure.
Value in PointValue (7) = channel 8, filter input pressure.
Value in PointValue (8) = channel 9, ground.
Value in PointValue (9) = channel 10, spare input.
Value in PointValue (10) = channel 11, spare input.
Value in PointValue (11) = channel 12, discharge #2 pressure.
Value in PointValue (12) = channel 13, reference channel.
Value in PointValue (13) = channel 14, motor amps.
Value in PointValue (14) = channel 15, Sbx channel #1 (process temp).
Value in PointValue (15) = channel 16, Sbx channel #2.
Value in PointValue (16) = channel 17, Sbx channel #3.
Value in PointValue (17) = channel 18, Sbx channel #4.

Read Digital I/O

Description of this command:
Reads the digital I/O.
Methods used to run this command:
Digital Input
Number of points accepted by this command:
1-40

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Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
219
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Port 1/Bit 0 - Current transformer shunt relay.
Value in PointValue (1) = Port 1/Bit 1 - Alarm indication output (1=no alarm).
Value in PointValue (2) = Port 1/Bit 2 - Trip indication output (1=no alarm).
Value in PointValue (3) = Port 1/Bit 3 - Compressor relay output.
Value in PointValue (4) = Port 1/Bit 4 - Unloader solenoid output.
Value in PointValue (5) = Port 1/Bit 5 - Unloader solenoid output.
Value in PointValue (6) = Port 1/Bit 6 - Unloader solenoid output.
Value in PointValue (7) = Port 1/Bit 7 - Unloader solenoid output.
Value in PointValue (8) = Port 2/Bit 0 - Remote increase input.
Value in PointValue (9) = Port 2/Bit 1 - Remote decrease input.
Value in PointValue (10) = Port 2/Bit 2 - Remote/local input (1=remote).
Value in PointValue (11) = Port 2/Bit 3 - Setpoint select input (1=setpoint#2 active).
Value in PointValue (12) = Port 2/Bit 4 - Lead/lag select input.
Value in PointValue (13) = Port 2/Bit 5 - Auxiliary safety input
Value in PointValue (14) = Port 2/Bit 6 - REmote start/stop input.
Value in PointValue (15) = Port 2/Bit 7 - Compressor starter auxiliary contact input.
Value in PointValue (16) = Port 3/Bit 0 - SBX.
Value in PointValue (17) = Port 3/Bit 1 - SBX.
Value in PointValue (18) = Port 3/Bit 2 - SBX.
Value in PointValue (19) = Port 3/Bit 3 - SBX.
Value in PointValue (20) = Port 3/Bit 4 - SBX.
Value in PointValue (21) = Port 3/Bit 5 - SBX.
Value in PointValue (22) = Port 3/Bit 6 - SBX.
Value in PointValue (23) = Port 3/Bit 7 - SBX.
Value in PointValue (24) = Port 4/Bit 0 - SBX.
Value in PointValue (25) = Port 4/Bit 1 - SBX.
Value in PointValue (26) = Port 4/Bit 2 - SBX.
Value in PointValue (27) = Port 4/Bit 3 - SBX.
Value in PointValue (28) = Port 4/Bit 4 - SBX.
Value in PointValue (29) = Port 4/Bit 5 - SBX.
Value in PointValue (30) = Port 4/Bit 6 - SBX.
Value in PointValue (31) = Port 4/Bit 7 - SBX.
Value in PointValue (32) = Port 5/Bit 0 - SBX.
Value in PointValue (33) = Port 5/Bit 1 - SBX.
Value in PointValue (34) = Port 5/Bit 2 - SBX.
Value in PointValue (35) = Port 5/Bit 3 - SBX.
Value in PointValue (36) = Port 5/Bit 4 - SBX.
Value in PointValue (37) = Port 5/Bit 5 - SBX.
Value in PointValue (38) = Port 5/Bit 6 - SBX.
Value in PointValue (39) = Port 5/Bit 7 - SBX.

Read Compressor Options

Description of this command:
Reads the compressor options.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-10
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
220
Meaning of the DriverP2 parameter:
0

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Values that are returned:
Value in PointValue (0) = Hot starts counter or antirecycle timer active option.
Value in PointValue (1) = Auto start or manual start after power fail option.
Value in PointValue (2) = 12,16 cylinder or2-8 cylinder compressor option.
Value in PointValue (3) = Booster or high stage compressor option.
Value in PointValue (4) = Setpoint #1 or setpoint #2 active.
Value in PointValue (5) = Lead/lag sequencing enable/disable option.
Value in PointValue (6) = Maximum time @ minimum capacity timer enable/disable option.
Value in PointValue (7) = Suction pressure control enable/disable option.
Value in PointValue (8) = Process temperature control or suction pressure control option.
Value in PointValue (9) = Remote or local mode selection.

Read Control Limits, Setpoint #2

Description of this command:
Reads the control limits, setpoint #2.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-15
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
221
Meaning of the DriverP2 parameter:
0
Values that are returned:
Value in PointValue (0) = Suction pressure control setpoint.
Value in PointValue (1) = Suction pressure load deadband.
Value in PointValue (2) = Suction pressure unload deadband.
Value in PointValue (3) = Current transformer ratio.
Value in PointValue (4) = Full load amps setpoint.
Value in PointValue (5) = Maximum amps setpoint.
Value in PointValue (6) = Suction pressure on/off control cutin.
Value in PointValue (7) = Suction pressure on/off control cutout.
Value in PointValue (8) = Process temperature control setpoint.
Value in PointValue (9) = Process temperature load deadband.
Value in PointValue (10) = Process temperature unload deadband.
Value in PointValue (11) = Process temperature on/off control cutin.
Value in PointValue (12) = Process temperature on/off control cutout.
Value in PointValue (13) = Force lag off suction pressure setpoint.
Value in PointValue (14) = Force lag off process temperature setpoint.

Write Trip Limit

Description of this command:
Writes the trip limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
225
Meaning of the DriverP2 parameter:
0
Meaning of the DriverP3 parameter:
Defines the trip limit to be changed.
- 1 = Low suction temperature.
- 2 = High discharge #1 temperature.
- 3 = High oil temperature.
- 4 = High discharge #2 temperature.

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- 5 = Low suction pressure setpoint #1.
- 6 = Low suction pressure setpoint #2.
- 7 = High discharge #1 pressure setpoint #1.
- 8 = High discharge #1 pressure setpoint #2.
- 9 = High oil pump out pressure.
- 10 = High discharge #2 pressure setpoint #1.
- 11 = High discharge #2 pressure setpoint #2.
- 12 = Low oil differential pressure.
- 13 = High filter differential pressure.
- 14 = Low control temperature.
- 15 = High control temperature.

Write Alarm Limit

Description of this command:
Writes the alarm limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
226
Meaning of the DriverP2 parameter:
0
Meaning of the DriverP3 parameter:
Defines the alarm limit to be changed.

- 1 = Low suction temperature.
- 2 = High discharge #1 temperature.
- 3 = High oil temperature.
- 4 = High discharge #2 temperature.
- 5 = Low suction pressure setpoint #1.
- 6 = Low suction pressure setpoint #2.
- 7 = High discharge #1 pressure setpoint #1.
- 8 = High discharge #1 pressure setpoint #2.
- 9 = High oil pump out pressure.
- 10 = High discharge #2 pressure setpoint #1.
- 11 = High discharge #2 pressure setpoint #2.
- 12 = Low oil differential pressure.
- 13 = High filter differential pressure.
- 14 = Low control temperature.
- 15 = High control temperature.

Write Reset Limits

Description of this command:
Writes the reset limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
227
Meaning of the DriverP2 parameter:
0
Meaning of the DriverP3 parameter:
Defines the reset limit to be changed.

- 1 = Low suction temperature.
- 2 = High discharge #1 temperature.
- 3 = High oil temperature.

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- 4 = High discharge #2 temperature.
- 5 = Low suction pressure setpoint #1.
- 6 = Low suction pressure setpoint #2.
- 7 = High discharge #1 pressure setpoint #1.
- 8 = High discharge #1 pressure setpoint #2.
- 9 = High oil pump out pressure.
- 10 = High discharge #2 pressure setpoint #1.
- 11 = High discharge #2 pressure setpoint #2.
- 12 = Low oil differential pressure.
- 13 = High filter differential pressure.
- 14 = Low control temperature.
- 15 = High control temperature.

Write Control Limit

Description of this command:
Writes the control limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
228
Meaning of the DriverP2 parameter:
0
Meaning of the DriverP3 parameter:
Defines the control limit to be changed.

- 1 = Pulldown cutin step #1.
- 2 = Pulldown cutout step #1.
- 3 = Pulldown cutin step #2.
- 4 = Pulldown cutout step #2.
- 5 = Pulldown cutin step #3.
- 6 = Pulldown cutout step #3.
- 7 = Pulldown cutin step #4.
- 8 = Pulldown cutout step #4.
- 9 = Pulldown cutin step #5.
- 10 = Pulldown cutout step #5.
- 11 = Pulldown cutin step #6.
- 12 = Pulldown cutout step #6.
- 13 = Pulldown cutin step #7.
- 14 = Pulldown cutout step #7.
- 15 = Pulldown cutin step #8.
- 16 = Pulldown cutout step #8.
- 17 = Suction pressure control setpoint.
- 18 = Suction pressure load deadband.
- 19 = Suction pressure unload deadband.
- 20 = Current transformer ratio.
- 21 = FLA.
- 22 = MAX.
- 23 = Suction pressure on/off cutin setpoint.
- 24 = Suction pressure on/off cutout setpoint.
- 25 = Process temperature setpoint.
- 26 = Process temperature load deadband.
- 27 = Process temperature unload deadband.
- 28 = Process temperature on/off cutin setpoint.
- 29 = Process temperature on/off cutout setpoint.
- 30 = Suction pressure control setpoint #2.
- 31 = Suction pressure load deadband setpoint #2.
- 32 = Suction pressure unload deadband setpoint #2.
- 33 = Current transformer ratio setpoint #2.
- 34 = FLA setpoint #2.

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- 35 = MAX setpoint #2.
- 36 = Suction pressure on/off cutin setpoint #2.
- 37 = Suction pressure on/off cutout setpoint #2.
- 38 = Process temperature setpoint #2.
- 39 = Process temperature load deadband setpoint #2.
- 40 = Process temperature unload deadband setpoint #2.
- 41 = Process temperature on/off cutin setpoint #2.
- 42 = Process temperature on/off cutout setpoint #2.

Write Timer Values

Description of this command:
Writes the timer values.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
229
Meaning of the DriverP2 parameter:
0
Meaning of the DriverP3 parameter:
Defines the timer values to be changed.

- 1 = Oil pressure bypass.
- 2 = Motor overload bypass.
- 3 = Maximum time at minimum capacity.
- 4 = Unloaded start timer.
- 5 = Load time.
- 6 = Unload time.
- 7 = Hot starts reset timer.
- 8 = Untirecycle timer.
- 9 = Auto restart timer.
- 10 = Filter pressure bypass @ start.
- 11 = discharge temperature bypass @ start.
- 12 = Start lag compressor time.
- 13 = Stop lag compressor time.
- 14 = Spare.
- 15 = Spare.
- 16 = Spare.
- 17 = Hot starts counter.

Write Capacity Setpoints

Description of this command:
Writes the capacity setpoints.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
230
Meaning of the DriverP2 parameter:
0

Stop Compressor Command

Description of this command:
Stops the compressor.
Methods used to run this command:
Analog Output

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Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
231
Meaning of the DriverP2 parameter:
0

Auto Mode Command

Description of this command:
Writes the auto mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
232
Meaning of the DriverP2 parameter:
0

Manual Mode Command

Description of this command:
Writes the manual mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
233
Meaning of the DriverP2 parameter:
0

Alarm Acknowledge

Description of this command:
Acknowledges the alarm.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 5-49)
Meaning of the DriverP1 parameter:
236
Meaning of the DriverP2 parameter:
0
[Twin Screw Compressor Commands]

Twin Screw Compressor Commands

Read Compressor Status

Description of this command:
Reads the compressor status.
Methods used to run this command:
Digital Input

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Number of points accepted by this command:
1-48
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
209
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Auto Mode.
Value in PointValue (1) = Manual Mode.
Value in PointValue (2) = Compressor On.
Value in PointValue (3) = Micro Selected.
Value in PointValue (4) = Host powerup byte.
Value in PointValue (5) = Central Mode (1=Central/0=Local).
Value in PointValue (6) = Alarm active.
Value in PointValue (7) = Trip active.
Value in PointValue (8) = Cmp waiting, suction pressure.
Value in PointValue (9) = Cmp waiting, remote command.
Value in PointValue (10) = Cmp waiting, hot starts or antirecycle timer.
Value in PointValue (11) = Cmp waiting, Prelub timer.
Value in PointValue (12) = Cmp waiting, percent capacity.
Value in PointValue (13) = Cmp waiting, oil pressure.
Value in PointValue (14) = Cmp waiting, process temperature.
Value in PointValue (15) = Not used.
Value in PointValue (16) = Suction temperature alarm.
Value in PointValue (17) = Discharge temperature alarm.
Value in PointValue (18) = Low control temperature alarm.
Value in PointValue (19) = High control temperature alarm.
Value in PointValue (20) = Low oil injection temperature alarm.
Value in PointValue (21) = High oil injection temperature alarm.
Value in PointValue (22) = Suction pressure alarm.
Value in PointValue (23) = Discharge pressure alarm.
Value in PointValue (24) = Manifold pressure alarm.
Value in PointValue (25) = Percent capacity alarm.
Value in PointValue (26) = Run oil pressure alarm.
Value in PointValue (27) = Filter pressure #1 alarm.
Value in PointValue (28) = Filter pressure #2 alarm.
Value in PointValue (29) = Not used.
Value in PointValue (30) = Not used.
Value in PointValue (31) = Not used.
Value in PointValue (32) = Suction temperature trip.
Value in PointValue (33) = Discharge temperature trip.
Value in PointValue (34) = Low control temperature trip.
Value in PointValue (35) = High control temperature trip.
Value in PointValue (36) = Low oil injection temperature.
Value in PointValue (37) = High oil injection temperature.
Value in PointValue (38) = Suction pressure trip.
Value in PointValue (39) = Discharge pressure trip.
Value in PointValue (40) = Manifold pressure trip.
Value in PointValue (41) = Percent capacity trip.
Value in PointValue (42) = Run oil pressure trip.
Value in PointValue (43) = Filter pressure #1 trip.
Value in PointValue (44) = Filter pressure #2 trip.
Value in PointValue (45) = Motor aux. safety trip.
Value in PointValue (46) = Aux. #1 safety relay trip.
Value in PointValue (47) = Aux. #2 safety relay trip.

Read Scaled Current Values

Description of this command:
Reads the scaled current values.

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Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-21
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
210
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Suction temperature.
Value in PointValue (1) = Discharge temperature.
Value in PointValue (2) = Control temperature.
Value in PointValue (3) = Oil injection temperature.
Value in PointValue (4) = Suction pressure.
Value in PointValue (5) = Discharge pressure.
Value in PointValue (6) = Manifold/filter outlet pressure.
Value in PointValue (7) = Filter inlet pressure.
Value in PointValue (8) = Not used.
Value in PointValue (9) = Not used.
Value in PointValue (10) = Current percent capacity.
Value in PointValue (11) = Not used.
Value in PointValue (12) = Not used.
Value in PointValue (13) = Motor amps.
Value in PointValue (14) = Calculated oil pressure.
Value in PointValue (15) = Calculated filter differential pressure.
Value in PointValue (16) = Percent capacity.
Value in PointValue (17) = Sbx channel #1 temperature.
Value in PointValue (18) = Sbx channel #2 temperature.
Value in PointValue (19) = Sbx channel #3 temperature.
Value in PointValue (20) = Sbx channel #4 temperature.

Read Trip Limits

Description of this command:
Reads the trip limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-34
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
211
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Suction temperature low trip.
Value in PointValue (1) = Suction temperature high trip.
Value in PointValue (2) = Discharge temperature low trip.
Value in PointValue (3) = Discharge temperature high trip.
Value in PointValue (4) = Low control temperature low trip.
Value in PointValue (5) = Low control temperature high trip.
Value in PointValue (6) = High control temperature low trip.
Value in PointValue (7) = High control temperature high trip.
Value in PointValue (8) = Low oil injection low trip.
Value in PointValue (9) = Low oil injection high trip.
Value in PointValue (10) = High oil injection low trip.
Value in PointValue (11) = High oil injection high trip.
Value in PointValue (12) = Suction pressure low trip.
Value in PointValue (13) = Suction pressure high trip.
Value in PointValue (14) = Discharge pressure low trip.

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Value in PointValue (15) = Discharge pressure high trip.
Value in PointValue (16) = Manifold/filter outlet pressure low trip.
Value in PointValue (17) = Manifold/filter outlet pressure high trip.
Value in PointValue (18) = Filter inlet pressure low trip.
Value in PointValue (19) = Filter inlet pressure high trip.
Value in PointValue (20) = Not used. low.
Value in PointValue (21) = Not used. high.
Value in PointValue (22) = Not used. low.
Value in PointValue (23) = Not used. high.
Value in PointValue (24) = Percent capacity low trip.
Value in PointValue (25) = Percent capacity high trip.
Value in PointValue (26) = Not used. low.
Value in PointValue (27) = Not used. high.
Value in PointValue (28) = Run oil pressure low trip.
Value in PointValue (29) = Run oil pressure high trip.
Value in PointValue (30) = Start filter differential low trip.
Value in PointValue (31) = Start filter differential high trip.
Value in PointValue (32) = Run filter differential low trip.
Value in PointValue (33) = Run filter differential high trip.

Read Alarm Limits

Description of this command:
Reads the alarm limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-34
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
212
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Suction temperature low alarm.
Value in PointValue (1) = Suction temperature high alarm.
Value in PointValue (2) = Discharge temperature low alarm.
Value in PointValue (3) = Discharge temperature high alarm.
Value in PointValue (4) = Low control temperature low alarm.
Value in PointValue (5) = Low control temperature high alarm.
Value in PointValue (6) = High control temperature low alarm.
Value in PointValue (7) = High control temperature high alarm.
Value in PointValue (8) = Low oil injection low alarm.
Value in PointValue (9) = Low oil injection high alarm.
Value in PointValue (10) = High oil injection low alarm.
Value in PointValue (11) = High oil injection high alarm.
Value in PointValue (12) = Suction pressure low alarm.
Value in PointValue (13) = Suction pressure high alarm.
Value in PointValue (14) = Discharge pressure low alarm.
Value in PointValue (15) = Discharge pressure high alarm.
Value in PointValue (16) = Manifold/filter outlet pressure low alarm.
Value in PointValue (17) = Manifold/filter outlet pressure high alarm.
Value in PointValue (18) = Filter inlet pressure low alarm.
Value in PointValue (19) = Filter inlet pressure high alarm.
Value in PointValue (20) = Ground low.
Value in PointValue (21) = Ground high.
Value in PointValue (22) = Spare low.
Value in PointValue (23) = Spare high.
Value in PointValue (24) = Percent capacity low alarm.
Value in PointValue (25) = Percent capacity high alarm.
Value in PointValue (26) = Not used.
Value in PointValue (27) = Not used.

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Value in PointValue (28) = Run oil pressure low alarm.
Value in PointValue (29) = Run oil pressure high alarm.
Value in PointValue (30) = Start filter differential low alarm.
Value in PointValue (31) = Start filter differential high alarm.
Value in PointValue (32) = Run filter differential low alarm.
Value in PointValue (33) = Run filter differential high alarm.

Read Reset Limits

Description of this command:
Reads the reset limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-34
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
213
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Suction temperature low reset.
Value in PointValue (1) = Suction temperature high reset.
Value in PointValue (2) = Discharge temperature low reset.
Value in PointValue (3) = Discharge temperature high reset.
Value in PointValue (4) = Low control temperature low reset.
Value in PointValue (5) = Low control temperature high reset.
Value in PointValue (6) = High control temperature low reset.
Value in PointValue (7) = High control temperature high reset.
Value in PointValue (08) = Low oil injection low reset.
Value in PointValue (9) = Low oil injection high reset.
Value in PointValue (10) = High oil injection low reset.
Value in PointValue (11) = High oil injection high reset.
Value in PointValue (12) = Suction pressure low reset.
Value in PointValue (13) = Suction pressure high reset.
Value in PointValue (14) = Discharge pressure low reset.
Value in PointValue (15) = Discharge pressure high reset.
Value in PointValue (16) = Manifold/filter outlet pressure low reset.
Value in PointValue (17) = Manifold/filter outlet pressure high reset.
Value in PointValue (18) = Filter inlet pressure low reset.
Value in PointValue (19) = Filter inlet pressure high reset.
Value in PointValue (20) = Ground low.
Value in PointValue (21) = Ground high.
Value in PointValue (22) = Spare low.
Value in PointValue (23) = Spare high.
Value in PointValue (24) = Percent capacity low reset.
Value in PointValue (25) = Percent capacity high reset.
Value in PointValue (26) = Not used.
Value in PointValue (27) = Not used.
Value in PointValue (28) = Run oil pressure low reset.
Value in PointValue (29) = Run oil pressure high reset.
Value in PointValue (30) = Start filter differential low reset.
Value in PointValue (31) = Start filter differential high reset.
Value in PointValue (32) = Run filter differential low reset.
Value in PointValue (33) = Run filter differential high reset.

Read Control Limits

Description of this command:
Reads the control limits.
Methods used to run this command:
Analog Input

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Number of points accepted by this command:
1-48
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
214
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Suction pressure on/off cutin.
Value in PointValue (1) = Suction pressure on/off cutout.
Value in PointValue (2) = Suction pressure capacity decrease cutin.
Value in PointValue (3) = Suction pressure capacity decrease cutout.
Value in PointValue (4) = Suction pressure capacity increase cutin.
Value in PointValue (5) = Suction pressure capacity increase cutout.
Value in PointValue (6) = Motor amps, FLA.
Value in PointValue (7) = Motor amps, MAX.
Value in PointValue (8) = Current transformer ratio primary value.
Value in PointValue (9) = Current transformer ratio secondary value.
Value in PointValue (10) = Minimum run capacity limit cutin.
Value in PointValue (11) = Minimum run capacity limit cutout.
Value in PointValue (12) = Auto cap increase cutin.
Value in PointValue (13) = Auto cap increase cutout.
Value in PointValue (14) = Economizer solenoid cutin.
Value in PointValue (15) = Economizer solenoid cutout.
Value in PointValue (16) = Oil separator heater cutin.
Value in PointValue (17) = Oil separator heater cutout.
Value in PointValue (18) = Spare.
Value in PointValue (19) = Spare.
Value in PointValue (20) = Spare.
Value in PointValue (21) = Spare.
Value in PointValue (22) = Spare.
Value in PointValue (23) = Spare.
Value in PointValue (24) = Spare.
Value in PointValue (25) = Spare.
Value in PointValue (26) = Lead/lag capacity step value cutin.
Value in PointValue (27) = Spare.
Value in PointValue (28) = Lead compressor maximum cap cutin.
Value in PointValue (29) = Lead compressor maximum cap cutout.
Value in PointValue (30) = Spare.
Value in PointValue (31) = Spare.
Value in PointValue (32) = Spare.
Value in PointValue (33) = Spare.
Value in PointValue (34) = Spare.
Value in PointValue (35) = Spare.
Value in PointValue (36) = Spare.
Value in PointValue (37) = Spare.
Value in PointValue (38) = Spare.
Value in PointValue (39) = Spare.
Value in PointValue (40) = Spare.
Value in PointValue (41) = Spare.
Value in PointValue (42) = Process temperature off/on cutin.
Value in PointValue (43) = Process temperature off/on cutout.
Value in PointValue (44) = Process temperature capacity decrease cutin.
Value in PointValue (45) = Process temperature capacity decrease cutout.
Value in PointValue (46) = Process temperature capacity increase cutin.
Value in PointValue (47) = Process temperature capacity increase cutout.

Read Timer Preset Values

Description of this command:
Reads the timer preset values.

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Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-20
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
215
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Restart timer.
Value in PointValue (1) = Not used.
Value in PointValue (2) = Cap. increment on timer.
Value in PointValue (3) = Cap. decrement on timer.
Value in PointValue (4) = Slide valve return - after compressor off.
Value in PointValue (5) = Suction pressure capacity increase cutout.
Value in PointValue (6) = Motor starter interlock timer.
Value in PointValue (7) = Cap. increment off timer.
Value in PointValue (8) = Cap. decrement off timer.
Value in PointValue (9) = Oil prelub timer.
Value in PointValue (10) = Oil pressure bypass allow timer.
Value in PointValue (11) = Oil pressure fail delay timer.
Value in PointValue (12) = Not used.
Value in PointValue (13) = Low oil injection temperature bypass.
Value in PointValue (14) = Filter pressure changeover.
Value in PointValue (15) = Pump run limit w/o oil pressure.
Value in PointValue (16) = Auto restart pulse timer.
Value in PointValue (17) = Cap. hold off time.
Value in PointValue (18) = Cap. hold on time.
Value in PointValue (19) = Antirecycle timer.

Read Compressor Runtime Tallies

Description of this command:
Reads the compressor runtime tallies.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-3
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
216
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Hours.
Value in PointValue (1) = Minutes.
Value in PointValue (2) = Seconds.

Read Event List

Description of this command:
Reads the event list.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-64
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
217

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Meaning of the DriverP2 parameter:
1
Meaning of the DriverP3 parameter:
Defines the log page number (1-4).
Values that are returned:
Value in PointValue (0) = Event code.
Value in PointValue (1) = Hour (military time).
Value in PointValue (2) = Minutes.
Value in PointValue (3) = Seconds.
Value in PointValue (n-3) = Event code.
Value in PointValue (n-2) = Hour (military time).
Value in PointValue (n-1) = Minutes.
Value in PointValue (n) = Seconds. For a date change code, the format is:
Value in PointValue (x0) = Event code.
Value in PointValue (x1) = Month number.
Value in PointValue (x2) = Day.
Value in PointValue (x3) = Last 2 digits of year.
The event codes are:
- 0 = Low suction temperature alarm.
- 1 = High discharge temperature alarm.
- 2 = Low control temperature alarm.
- 3 = High control temperature alarm.
- 4 = Low oil injection temperature alarm.
- 5 = High oil injection temperature alarm.
- 6 = Low suction pressure alarm.
- 7 = High discharge pressure alarm.
- 8 = Manifold pressure alarm.
- 9 = Percent capacity alarm.
- 10 = Low run oil pressure alarm.
- 11 = High start filter pressure alarm.
- 12 = High run filter pressure alarm.
- 32 = Low suction temperature failure.
- 33 = High discharge temperature failure.
- 34 = Low control temperature failure.
- 35 = High control temperature failure.
- 36 = Low oil injection temperature failure.
- 37 = High oil injection temperature failure.
- 38 = Low suction pressure failure.
- 39 = High discharge pressure failure.
- 40 = Manifold pressure failure.
- 41 = Percent capacity failure.
- 53 = High run filter pressure failure.
- 54 = High start filter pressure failure.
- 55 = Low run oil pressure failure.
- 56 = Oil injection temperature failure.
- 57 = Motor overload failure.
- 58 = Auxiliary #1 safety failure.
- 59 = Auxiliary #2 safety failure.
- 67 = Auto command received.
- 68 = Manual command received.
- 69 = Stop command received.
- 70 = Compressor started.
- 71 = Compressor stopped.
- 72 = Panel powered up.
- 73 = Panel powered down.
- 74 = Date change occurred.

Read Raw Values of Analog Input Channels

Description of this command:
Reads the raw values of analog input channels.
Methods used to run this command:
Analog Input

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Number of points accepted by this command:
1-18
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
218
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = channel 1, suction temperature.
Value in PointValue (1) = channel 2, discharge temperature.
Value in PointValue (2) = channel 3, spare temperature.
Value in PointValue (3) = channel 4, oil injection temperature.
Value in PointValue (4) = channel 5, suction pressure.
Value in PointValue (5) = channel 6, discharge pressure.
Value in PointValue (6) = channel 7, manifold/filter outlet pressure.
Value in PointValue (7) = channel 8, filter input pressure.
Value in PointValue (8) = channel 9, ground.
Value in PointValue (9) = channel 10, spare input.
Value in PointValue (10) = channel 11, percent capacity.
Value in PointValue (11) = channel 12, spare input.
Value in PointValue (12) = channel 13, reference channel.
Value in PointValue (13) = channel 14, motor amps.
Value in PointValue (14) = channel 15, Sbx channel #1 (process temp).
Value in PointValue (15) = channel 16, Sbx channel #2.
Value in PointValue (16) = channel 17, Sbx channel #3.
Value in PointValue (17) = channel 18, Sbx channel #4.

Read Digital I/O

Description of this command:
Reads the digital I/O.
Methods used to run this command:
Digital Input
Number of points accepted by this command:
1-40
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
219
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Port 1/Bit 0 - Current transformer shunt relay.
Value in PointValue (1) = Port 1/Bit 1 - Alarm indication output (1=no alarm).
Value in PointValue (2) = Port 1/Bit 2 - Trip indication output (1=no alarm).
Value in PointValue (3) = Port 1/Bit 3 - Oil pump relay output.
Value in PointValue (4) = Port 1/Bit 4 - Compressor motor relay output.
Value in PointValue (5) = Port 1/Bit 5 - Capacity increase solenoid output.
Value in PointValue (6) = Port 1/Bit 6 - Capacity decrease solenoid output.
Value in PointValue (7) = Port 1/Bit 7 - Economizer solenoid output.
Value in PointValue (8) = Port 2/Bit 0 - Maximum capacity/maximum amps indicate output.
Value in PointValue (9) = Port 2/Bit 1 - Lead/lag select input.
Value in PointValue (10) = Port 2/Bit 2 - Remote/local selection input.
Value in PointValue (11) = Port 2/Bit 3 - Remote start/stop input.
Value in PointValue (12) = Port 2/Bit 4 - Remote capacity increase input.
Value in PointValue (13) = Port 2/Bit 5 - Remote capacity decrease input.
Value in PointValue (14) = Port 2/Bit 6 - Compressor starter auxiliary contact input.
Value in PointValue (15) = Port 2/Bit 7 - Auxiliary #1 safety input.
Value in PointValue (16) = Port 3/Bit 0 - Auxiliary #2 safety input.
Value in PointValue (17) = Port 3/Bit 1 - SBX.
Value in PointValue (18) = Port 3/Bit 2 - SBX.
Value in PointValue (19) = Port 3/Bit 3 - SBX.

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Value in PointValue (20) = Port 3/Bit 4 - SBX.
Value in PointValue (21) = Port 3/Bit 5 - SBX.
Value in PointValue (22) = Port 3/Bit 6 - SBX.
Value in PointValue (23) = Port 3/Bit 7 - SBX.
Value in PointValue (24) = Port 4/Bit 0 - SBX.
Value in PointValue (25) = Port 4/Bit 1 - SBX.
Value in PointValue (26) = Port 4/Bit 2 - SBX.
Value in PointValue (27) = Port 4/Bit 3 - SBX.
Value in PointValue (28) = Port 4/Bit 4 - SBX.
Value in PointValue (29) = Port 4/Bit 5 - SBX.
Value in PointValue (30) = Port 4/Bit 6 - SBX.
Value in PointValue (31) = Port 4/Bit 7 - SBX.
Value in PointValue (32) = Port 5/Bit 0 - SBX.
Value in PointValue (33) = Port 5/Bit 1 - SBX.
Value in PointValue (34) = Port 5/Bit 2 - SBX.
Value in PointValue (35) = Port 5/Bit 3 - SBX.
Value in PointValue (36) = Port 5/Bit 4 - SBX.
Value in PointValue (37) = Port 5/Bit 5 - SBX.
Value in PointValue (38) = Port 5/Bit 6 - SBX.
Value in PointValue (39) = Port 5/Bit 7 - SBX.

Read Compressor Options

Description of this command:
Reads the compressor options.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-9
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
220
Meaning of the DriverP2 parameter:
1
Values that are returned:
Value in PointValue (0) = Local control active or central computer control option.
Value in PointValue (1) = Auto start or manual start after power fail option.
Value in PointValue (2) = Not used.
Value in PointValue (3) = Hot starts counter or antirecycle timer active option.
Value in PointValue (4) = Not used.
Value in PointValue (5) = Process temperature control or suction pressure control option.
Value in PointValue (6) = Lead/lag enabled option.
Value in PointValue (7) = Minimum run capacity control option.
Value in PointValue (8) = Local control active or remote control active option.

Write Trip Limit

Description of this command:
Writes the trip limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
225
Meaning of the DriverP2 parameter:
1
Meaning of the DriverP3 parameter:
Defines the trip limit to be changed.
- 1 = Low suction temperature.

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- 2 = High discharge temperature.
- 3 = Low control temperature.
- 4 = High control temperature.
- 5 = Low oil injection temperature.
- 6 = High oil injection temperature.
- 7 = Low suction pressure.
- 8 = High discharge pressure.
- 9 = Low run oil pressure.
- 10 = High filter differential pressure #1.
- 11 = High filter differential pressure #2.
- 12 = Spare.
- 13 = Spare.
- 14 = Spare.
- 15 = Spare.
- 16 = Spare.

Write Alarm Limit

Description of this command:
Writes the alarm limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
226
Meaning of the DriverP2 parameter:
1
Meaning of the DriverP3 parameter:
Defines the alarm limit to be changed.

- 1 = Low suction temperature.
- 2 = High discharge temperature.
- 3 = Low control temperature.
- 4 = High control temperature.
- 5 = Low oil injection temperature.
- 6 = High oil injection temperature.
- 7 = Low suction pressure.
- 8 = High discharge pressure.
- 9 = Low run oil pressure.
- 10 = High filter differential pressure #1.
- 11 = High filter differential pressure #2.
- 12 = Spare.
- 13 = Spare.
- 14 = Spare.
- 15 = Spare.
- 16 = Spare.

Write Reset Limits

Description of this command:
Writes the reset limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
227
Meaning of the DriverP2 parameter:
1

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Meaning of the DriverP3 parameter:
Defines the reset limit to be changed.
- 1 = Low suction temperature.
- 2 = High discharge temperature.
- 3 = Low control temperature.
- 4 = High control temperature.
- 5 = Low oil injection temperature.
- 6 = High oil injection temperature.
- 7 = Low suction pressure.
- 8 = High discharge pressure.
- 9 = Low run oil pressure.
- 10 = High filter differential pressure #1.
- 11 = High filter differential pressure #2.
- 12 = Spare.
- 13 = Spare.
- 14 = Spare.
- 15 = Spare.
- 16 = Spare.

Write Control Limit

Description of this command:
Writes the control limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
228
Meaning of the DriverP2 parameter:
1
Meaning of the DriverP3 parameter:
Defines the control limit to be changed.
- 1 = On/off cutin.
- 2 = On/off cutout.
- 3 = capacity decrement cutin.
- 4 = capacity decrement cutout.
- 5 = capacity increment cutin.
- 6 = capacity increment cutout.
- 7 = Full load amps.
- 8 = Maximum amps.
- 9 = Current transformer ratio primary value.
- 10 = Minimum run capacity cutin.
- 11 = Minimum run capacity cutout.
- 12 = Auto capacity increment cutin.
- 13 = Auto capacity increment cutout.
- 14 = Economizer solenoid cutin.
- 15 = Economizer solenoid cutout.
- 16 = Spare.
- 17 = Maximum capacity indicate cutin.
- 18 = Maximum capacity indicate cutout.
- 19 = On/off cutin (temperature control).
- 20 = On/off cutin (temperature control).
- 21 = Decrement capacity cutin (temperature control).
- 22 = Decrement capacity cutout (temperature control).
- 23 = Increment capacity cutin (temperature control).
- 24 = Increment capacity cutout (temperature control).

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Write Timer Values

Description of this command:
Writes the timer values.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
229
Meaning of the DriverP2 parameter:
1
Meaning of the DriverP3 parameter:
Defines the timer values to be changed.
- 1 = capacity increment on timer.
- 2 = capacity decrement on timer.
- 3 = Slide valve return after shutdown.
- 4 = Motor start interlock bypass.
- 5 = capacity increment off.
- 6 = capacity decrement off.
- 7 = Oil prelub timer.
- 8 = Oil pressure bypass allow timer.
- 9 = Oil pressure fail delay timer.
- 10 = Low oil injection temperature bypass.
- 11 = Filter pressure change-over.
- 12 = Pump run limit w/o oil pressure.
- 13 = Auto restart after power fail.
- 14 = capacity hold off time.
- 15 = capacity hold on time.
- 16 = antirecycle timer.
- 17 = Hot starts/hr.

Write Capacity Setpoints

Description of this command:
Writes the capacity setpoints.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
230
Meaning of the DriverP2 parameter:
1

Stop Compressor Command

Description of this command:
Stops the compressor.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
231
Meaning of the DriverP2 parameter:
1

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Auto Mode Command

Description of this command:
Writes the auto mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
232
Meaning of the DriverP2 parameter:
1

Manual Mode Command

Description of this command:
Writes the manual mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
233
Meaning of the DriverP2 parameter:
1

Alarm Acknowledge

Description of this command:
Acknowledges the alarm.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 50-99)
Meaning of the DriverP1 parameter:
236
Meaning of the DriverP2 parameter:
1
[Single Screw Compressor Commands]

Single Screw Compressor Commands

Read Compressor Status

Description of this command:
Reads the compressor status.
Methods used to run this command:
Digital Input
Number of points accepted by this command:
1-62
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
209
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Auto Mode.

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Value in PointValue (1) = Manual Mode.
Value in PointValue (2) = Compressor On.
Value in PointValue (3) = Micro Selected (dgtlin 16 - remote/local select, local = 0).
Value in PointValue (4) = Host powerup byte.
Value in PointValue (5) = Central computer mode (1=Central/0=Local).
Value in PointValue (6) = Alarm active.
Value in PointValue (7) = Trip active.
Value in PointValue (8) = Cmp waiting, suction pressure.
Value in PointValue (9) = Cmp waiting, remote command.
Value in PointValue (10) = Cmp waiting, hot starts or antirecycle timer.
Value in PointValue (11) = Cmp waiting, process temperature.
Value in PointValue (12) = Cmp waiting, percent capacity.
Value in PointValue (13) = Cmp waiting, percent volume.
Value in PointValue (14) = Cmp waiting, start allow oil pressure.
Value in PointValue (15) = Cmp waiting, remote on/off.
Value in PointValue (16) = Suction temperature alarm.
Value in PointValue (17) = Discharge temperature alarm.
Value in PointValue (18) = Low oil sep. temperature #1 alarm.
Value in PointValue (19) = Low oil sep. temperature #2 alarm.
Value in PointValue (20) = Low oil injection temperature alarm.
Value in PointValue (21) = High oil injection temperature alarm.
Value in PointValue (22) = suction pressure alarm.
Value in PointValue (23) = discharge pressure alarm.
Value in PointValue (24) = manifold pressure alarm.
Value in PointValue (25) = Percent capacity alarm.
Value in PointValue (26) = Percent volume alarm.
Value in PointValue (27) = Low control temperature alarm.
Value in PointValue (28) = Run cycle monitor oil pressure alarm.
Value in PointValue (29) = High control temp. alarm.
Value in PointValue (30) = Filter #1 pressure alarm.
Value in PointValue (31) = Filter #2 pressure alarm.
Value in PointValue (32) = Percent fla alarm.
Value in PointValue (33) = High amp cutout alarm.
Value in PointValue (34) = Not used.
Value in PointValue (35) = Not used.
Value in PointValue (36) = Not used.
Value in PointValue (37) = Not used.
Value in PointValue (38) = Not used.
Value in PointValue (39) = Not used.
Value in PointValue (40) = Suction temperature trip.
Value in PointValue (41) = Discharge temperature trip.
Value in PointValue (42) = Low oil sep. temperature #1 trip.
Value in PointValue (43) = Low oil sep. temperature #2 trip.
Value in PointValue (44) = Low oil injection temperature trip.
Value in PointValue (45) = High oil injection temperature trip.
Value in PointValue (46) = suction pressure trip.
Value in PointValue (47) = discharge pressure trip.
Value in PointValue (48) = manifold pressure trip.
Value in PointValue (49) = Percent capacity trip.
Value in PointValue (50) = Percent volume trip.
Value in PointValue (51) = Low control temperature trip.
Value in PointValue (52) = Run cycle monitor oil pressure trip.
Value in PointValue (53) = High control temp. trip.
Value in PointValue (54) = Filter #1 pressure trip.
Value in PointValue (55) = Filter #2 pressure trip.
Value in PointValue (56) = Percent fla trip.
Value in PointValue (57) = High amp cutout trip.
Value in PointValue (58) = Motor aux. safety trip.
Value in PointValue (59) = Aux. #1 safety relay trip.
Value in PointValue (60) = Low oil separator level trip.
Value in PointValue (61) = Aux. #2 safety trip.

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Read Scaled Current Values

Description of this command:
Reads the scaled current values.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-28
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
210
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Suction temperature.
Value in PointValue (1) = Discharge temperature.
Value in PointValue (2) = Oil sep.temperature.
Value in PointValue (3) = Oil injection temperature.
Value in PointValue (4) = Suction pressure.
Value in PointValue (5) = Discharge pressure.
Value in PointValue (6) = Manifold/filter outlet pressure.
Value in PointValue (7) = Filter inlet pressure.
Value in PointValue (8) = Ground.
Value in PointValue (9) = Not used.
Value in PointValue (10) = Current percent capacity.
Value in PointValue (11) = Current percent volume.
Value in PointValue (12) = Reference channel.
Value in PointValue (13) = Motor amps.
Value in PointValue (14) = Calculated differential pressure.
Value in PointValue (15) = Calculated run oil pressure.
Value in PointValue (16) = Calculated allow start.
Value in PointValue (17) = Calculated filter differential pressure.
Value in PointValue (18) = Calculated pressure ratio.
Value in PointValue (19) = Calculated volume ratio.
Value in PointValue (20) = Calculated limited pressure ratio.
Value in PointValue (21) = Loockup table volume ratio.
Value in PointValue (22) = Loockup table desired percent ratio.
Value in PointValue (23) = Calculated pres ratio x 2560.
Value in PointValue (24) = Sbx temperature #1.
Value in PointValue (25) = Sbx temperature #2.
Value in PointValue (26) = Sbx temperature #3.
Value in PointValue (27) = Sbx temperature #4.
Value in PointValue (28) = Spare.
Value in PointValue (29) = Spare.
Value in PointValue (30) = Spare.
Value in PointValue (31) = Spare.
Value in PointValue (32) = Lookup table desired percent volume (+/-) correction factor.
Value in PointValue (33) = Calculated percent of full load amps.

Read Trip Limits

Description of this command:
Reads the trip limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-48
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
211

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Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Suction temperature low trip.
Value in PointValue (1) = Suction temperature high trip.
Value in PointValue (2) = Discharge temperature low trip.
Value in PointValue (3) = Discharge temperature high trip.
Value in PointValue (4) = Oil separator #1 temperature low trip.
Value in PointValue (5) = Oil separator #1 temperature high trip.
Value in PointValue (6) = Oil separator #2 temperature low trip.
Value in PointValue (7) = Oil separator #2 temperature high trip.
Value in PointValue (8) = Low oil injection low trip.
Value in PointValue (9) = Low oil injection high trip.
Value in PointValue (10) = High oil injection low trip.
Value in PointValue (11) = High oil injection high trip.
Value in PointValue (12) = Suction pressure setpoint #1 low trip.
Value in PointValue (13) = Suction pressure setpoint #1 high trip.
Value in PointValue (14) = Suction pressure setpoint #2 low trip.
Value in PointValue (15) = Suction pressure setpoint #2 high trip.
Value in PointValue (16) = Discharge pressure setpoint #1 low trip.
Value in PointValue (17) = Discharge pressure setpoint #1 high trip.
Value in PointValue (18) = Discharge pressure setpoint #2 low trip.
Value in PointValue (19) = Discharge pressure setpoint #2 high trip.
Value in PointValue (20) = Manifold/filter outlet pressure low trip.
Value in PointValue (21) = Manifold/filter outlet pressure high trip.
Value in PointValue (22) = Filter inlet pressure low trip.
Value in PointValue (23) = Filter inlet pressure high trip.
Value in PointValue (24) = Not used. low.
Value in PointValue (25) = Not used. high.
Value in PointValue (26) = Not used. low.
Value in PointValue (27) = Not used. high.
Value in PointValue (28) = Percent capacity low trip.
Value in PointValue (29) = Percent capacity high trip.
Value in PointValue (30) = Percent volume low trip.
Value in PointValue (31) = Percent volume high trip.
Value in PointValue (32) = Low control temperature low trip.
Value in PointValue (33) = Low control temperature high trip.
Value in PointValue (34) = Run cycle monitor oil pressure low trip.
Value in PointValue (35) = Run cycle monitor oil pressure high trip.
Value in PointValue (36) = Not used. high control temperature low trip.
Value in PointValue (37) = Not used. high control temperature high trip.
Value in PointValue (38) = Allow start oil pressure low trip.
Value in PointValue (39) = Allow start oil pressure high trip.
Value in PointValue (40) = Start filter differential low trip.
Value in PointValue (41) = Start filter differential high trip.
Value in PointValue (42) = Run filter differential low trip.
Value in PointValue (43) = Run filter differential high trip.
Value in PointValue (44) = Percent FLA low trip.
Value in PointValue (45) = Percent FLA high trip.
Value in PointValue (46) = Time delayed high amp low trip.
Value in PointValue (47) = Time delayed high amp high trip.

Read Alarm Limits

Description of this command:
Reads the alarm limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-48
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)

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Meaning of the DriverP1 parameter:
212
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Suction temperature low alarm.
Value in PointValue (1) = Suction temperature high alarm.
Value in PointValue (2) = Discharge temperature low alarm.
Value in PointValue (3) = Discharge temperature high alarm.
Value in PointValue (4) = Oil separator #1 temperature low alarm.
Value in PointValue (5) = Oil separator #1 temperature high alarm.
Value in PointValue (6) = Oil separator #2 temperature low alarm.
Value in PointValue (7) = Oil separator #2 temperature high alarm.
Value in PointValue (8) = Low oil injection low alarm.
Value in PointValue (9) = Low oil injection high alarm.
Value in PointValue (10) = High oil injection low alarm.
Value in PointValue (11) = High oil injection high alarm.
Value in PointValue (12) = Suction pressure setpoint #1 low alarm.
Value in PointValue (13) = Suction pressure setpoint #1 high alarm.
Value in PointValue (14) = Suction pressure setpoint #2 low alarm.
Value in PointValue (15) = Suction pressure setpoint #2 high alarm.
Value in PointValue (16) = Discharge pressure setpoint #1 low alarm.
Value in PointValue (17) = Discharge pressure setpoint #1 high alarm.
Value in PointValue (18) = Discharge pressure setpoint #2 low alarm.
Value in PointValue (19) = Discharge pressure setpoint #2 high alarm.
Value in PointValue (20) = Manifold/filter outlet pressure low alarm.
Value in PointValue (21) = Manifold/filter outlet pressure high alarm.
Value in PointValue (22) = Filter inlet pressure low alarm.
Value in PointValue (23) = Filter inlet pressure high alarm.
Value in PointValue (24) = Ground low.
Value in PointValue (25) = Ground high.
Value in PointValue (26) = Spare low.
Value in PointValue (27) = Spare high.
Value in PointValue (28) = Percent capacity low alarm.
Value in PointValue (29) = Percent capacity high alarm.
Value in PointValue (30) = Percent volume low alarm.
Value in PointValue (31) = Percent volume high alarm.
Value in PointValue (32) = Low control temperature low alarm.
Value in PointValue (33) = Low control temperature high alarm.
Value in PointValue (34) = Run cycle monitor oil pressure low alarm.
Value in PointValue (35) = Run cycle monitor oil pressure high alarm.
Value in PointValue (36) = Not used. - high control temperature low alarm.
Value in PointValue (37) = Not used. - high control temperature high alarm.
Value in PointValue (38) = Allow start oil pressure low alarm.
Value in PointValue (39) = Allow start oil pressure high alarm.
Value in PointValue (40) = Start filter differential low alarm.
Value in PointValue (41) = Start filter differential high alarm.
Value in PointValue (42) = Run filter differential low alarm.
Value in PointValue (43) = Run filter differential high alarm.
Value in PointValue (44) = Percent FLA low alarm.
Value in PointValue (45) = Percent FLA high alarm.
Value in PointValue (46) = Time delayed high amp low alarm.
Value in PointValue (47) = Time delayed high amp high alarm.

Read Reset Limits

Description of this command:
Reads the reset limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-48

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Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
213
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Suction temperature low reset.
Value in PointValue (1) = Suction temperature high reset.
Value in PointValue (2) = Discharge temperature low reset.
Value in PointValue (3) = Discharge temperature high reset.
Value in PointValue (4) = Oil separator #1 temperature low reset.
Value in PointValue (5) = Oil separator #1 temperature high reset.
Value in PointValue (6) = Oil separator #2 temperature low reset.
Value in PointValue (7) = Oil separator #2 temperature high reset.
Value in PointValue (8) = Low oil injection low reset.
Value in PointValue (9) = Low oil injection high reset.
Value in PointValue (10) = High oil injection low reset.
Value in PointValue (11) = High oil injection high reset.
Value in PointValue (12) = Suction pressure setpoint #1 low reset.
Value in PointValue (13) = Suction pressure setpoint #1 high reset.
Value in PointValue (14) = Suction pressure setpoint #2 low reset.
Value in PointValue (15) = Suction pressure setpoint #2 high reset.
Value in PointValue (16) = Discharge pressure setpoint #1 low reset.
Value in PointValue (17) = Discharge pressure setpoint #1 high reset.
Value in PointValue (18) = Discharge pressure setpoint #2 low reset.
Value in PointValue (19) = Discharge pressure setpoint #2 high reset.
Value in PointValue (20) = Manifold/filter outlet pressure low reset.
Value in PointValue (21) = Manifold/filter outlet pressure high reset.
Value in PointValue (22) = Filter inlet pressure low reset.
Value in PointValue (23) = Filter inlet pressure high reset.
Value in PointValue (24) = Ground low.
Value in PointValue (25) = Ground high.
Value in PointValue (26) = Spare low.
Value in PointValue (27) = Spare high.
Value in PointValue (28) = Percent capacity low reset.
Value in PointValue (29) = Percent capacity high reset.
Value in PointValue (30) = Percent volume low reset.
Value in PointValue (31) = Percent volume high reset.
Value in PointValue (32) = Low control temperature low reset.
Value in PointValue (33) = Low control temperature high reset.
Value in PointValue (34) = Run cycle monitor oil pressure low reset.
Value in PointValue (35) = Run cycle monitor oil pressure high reset.
Value in PointValue (36) = Not used. - high control temperature low reset.
Value in PointValue (37) = Not used. - high control temperature high reset.
Value in PointValue (38) = Allow start oil pressure low reset.
Value in PointValue (39) = Allow start oil pressure high reset.
Value in PointValue (40) = Start filter differential low reset.
Value in PointValue (41) = Start filter differential high reset.
Value in PointValue (42) = Run filter differential low reset.
Value in PointValue (43) = Run filter differential high reset.
Value in PointValue (44) = Percent FLA low reset.
Value in PointValue (45) = Percent FLA high reset.
Value in PointValue (46) = Time delayed high amp low reset.
Value in PointValue (47) = Time delayed high amp high reset.

Read Control Limits

Description of this command:
Reads the control limits.
Methods used to run this command:
Analog Input

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Number of points accepted by this command:
1-40
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
214
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Suction pressure on/off cutin.
Value in PointValue (1) = Suction pressure on/off cutout.
Value in PointValue (2) = Suction pressure capacity decrease cutin.
Value in PointValue (3) = Suction pressure capacity decrease cutout.
Value in PointValue (4) = Suction pressure capacity increase cutin.
Value in PointValue (5) = Suction pressure capacity increase cutout.
Value in PointValue (6) = Motor amps, FLA.
Value in PointValue (7) = Motor amps, MAX.
Value in PointValue (8) = Current transformer ratio primary value.
Value in PointValue (9) = Current transformer ratio secondary value.
Value in PointValue (10) = Minimum run capacity limit cutin.
Value in PointValue (11) = Minimum run capacity limit cutout.
Value in PointValue (12) = Auto cap increase cutin.
Value in PointValue (13) = Auto cap increase cutout.
Value in PointValue (14) = Economizer solenoid cutin.
Value in PointValue (15) = Economizer solenoid cutout.
Value in PointValue (16) = Oil separator heater cutin.
Value in PointValue (17) = Oil separator heater cutout.
Value in PointValue (18) = Not used.
Value in PointValue (19) = Not used.
Value in PointValue (20) = P1-P3 pump restart ratio cutin.
Value in PointValue (21) = P1-P3 pump restart ratio cutout.
Value in PointValue (22) = Lead/lag capacity step value.
Value in PointValue (23) = Not used.
Value in PointValue (24) = Lead compressor maximum cap cutin.
Value in PointValue (25) = Lead compressor maximum cap cutout.
Value in PointValue (26) = Cap. range volume adjusted factor cutin.
Value in PointValue (27) = Cap. range volume adjusted factor cutout.
Value in PointValue (28) = Desired percent volume correction factor.
Value in PointValue (29) = Not used.
Value in PointValue (30) = Not used.
Value in PointValue (31) = Not used.
Value in PointValue (32) = Process temperature off/on cutin.
Value in PointValue (33) = Process temperature off/on cutout.
Value in PointValue (34) = Process temperature capacity decrease cutin.
Value in PointValue (35) = Process temperature capacity decrease cutout.
Value in PointValue (36) = Process temperature capacity increase cutin.
Value in PointValue (37) = Process temperature capacity increase cutout.
Value in PointValue (38) = Not used.
Value in PointValue (39) = Not used.

Read Timer Preset Values

Description of this command:
Reads the timer preset values.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-33
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
215

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Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Restart timer.
Value in PointValue (1) = Slide valve return at compressor start.
Value in PointValue (2) = Cap. increment on timer.
Value in PointValue (3) = Cap. decrement on timer.
Value in PointValue (4) = Slide valve return - after compressor off.
Value in PointValue (5) = Motor starter interlock timer.
Value in PointValue (6) = Cap. increment off timer.
Value in PointValue (7) = Cap. decrement off timer.
Value in PointValue (8) = Allow compressor start oil pressure (prelub pressure).
Value in PointValue (9) = Not used.
Value in PointValue (10) = Not used.
Value in PointValue (11) = Run cycle oil pressure bypass (oil pressure).
Value in PointValue (12) = Oil sep. temperature safety change-over.
Value in PointValue (13) = Low oil injection temperature change-over.
Value in PointValue (14) = Pump run limit w/o prime pressure.
Value in PointValue (15) = Auto restart after power failure.
Value in PointValue (16) = Cap. hold off time.
Value in PointValue (17) = Cap. hold on time.
Value in PointValue (18) = Antirecycle timer.
Value in PointValue (19) = Filter differential safety change-over.
Value in PointValue (20) = Low oil sep. level bypass timer.
Value in PointValue (21) = Start lag compressor timer.
Value in PointValue (22) = Stop lag compressor timer.
Value in PointValue (23) = Force start lag compressor timer.
Value in PointValue (24) = Spare.
Value in PointValue (25) = Spare.
Value in PointValue (26) = Spare.
Value in PointValue (27) = Spare.
Value in PointValue (28) = Spare.
Value in PointValue (29) = Spare.
Value in PointValue (30) = Spare.
Value in PointValue (31) = Spare.
Value in PointValue (32) = Hot starts counter.

Read Compressor Runtime Tallies

Description of this command:
Reads the compressor runtime tallies.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-3
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
216
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Hours.
Value in PointValue (1) = Minutes.
Value in PointValue (2) = Seconds.

Read Event List

Description of this command:
Reads the event list.
Methods used to run this command:
Analog Input

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Number of points accepted by this command:
1-64
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
217
Meaning of the DriverP2 parameter:
2
Meaning of the DriverP3 parameter:
Defines the log page number (1-4).
Values that are returned:
Value in PointValue (0) = Event code.
Value in PointValue (1) = Hour (military time).
Value in PointValue (2) = Minutes.
- Nc - HMITalk1.PointValue(3) = Seconds.

Value in PointValue (n-3) = Event code.
Value in PointValue (n-2) = Hour (military time).
Value in PointValue (n-1) = Minutes.
Value in PointValue (n) = Seconds. For a date change code, the format is:
Value in PointValue (x0) = Event code.
Value in PointValue (x1) = Month number.
Value in PointValue (x2) = Day.
Value in PointValue (x3) = Last 2 digits of year.
The event codes are:
- 0 = Low suction temperature alarm.
- 1 = High discharge temperature alarm.
- 2 = Oil separator temperature #1 alarm.
- 3 = Oil separator temperature #2 alarm.
- 4 = Low oil injection temperature alarm.
- 5 = High oil injection temperature alarm.
- 6 = Low suction pressure setpoint #1 alarm.
- 7 = Low suction pressure setpoint #2 alarm.
- 8 = High discharge pressure setpoint #1 alarm.
- 9 = High discharge pressure setpoint #2 alarm.
- 10 = Manifold pressure alarm.
- 11 = Percent capacity slide sensor alarm.
- 12 = Percent volume slide sensor alarm.
- 13 = Low control temperature alarm.
- 14 = Low run monitor pressure alarm (oil pressure).
- 15 = High control temperature alarm.
- 16 = Low allow start oil pressure alarm.
- 17 = High start filter pressure alarm.
- 18 = High run filter pressure alarm.
- 19 = Time delayed percent FLA alarm.
- 20 = Time delayed high amp alarm.
- 40 = Low suction temperature failure.
- 41 = High discharge temperature failure.
- 42 = Oil separator temperature #1 failure.
- 43 = Oil separator temperature #2 failure.
- 44 = Low oil injection temperature failure.
- 45 = High oil injection temperature failure.
- 46 = Low suction pressure setpoint #1 failure.
- 47 = Low suction pressure setpoint #2 failure.
- 48 = High discharge pressure setpoint #1 failure.
- 49 = High discharge pressure setpoint #2 failure.
- 50 = Manifold pressure failure.
- 51 = Percent capacity slide sensor failure.
- 52 = Percent volume slide sensor failure.
- 53 = Low control temperature failure.
- 67 = High amp cutout failure.
- 68 = Percent FLA failure.
- 69 = High run filter pressure failure.

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- 70 = High start filter pressure failure.
- 71 = Low allow start oil pressure failure.
- 72 = Low run monitor pressure failure (oil pressure).
- 73 = Oil separator temperature #1 failure.
- 74 = Oil separator temperature #2 failure.
- 75 = Oil injection temperature failure.
- 76 = Motor overload failure.
- 77 = Auxiliary #1 safety failure.
- 78 = Low oil separator level failure.
- 79 = Auxiliary #2 safety failure.
- 83 = Auto command received.
- 84 = Manual command received.
- 85 = Stop command received.
- 86 = Compressor started.
- 87 = Compressor stopped.
- 88 = Panel powered up.
- 89 = Panel powered down.
- 90 = Date change occurred.

Read Raw Values of Analog Input Channels

Description of this command:
Reads the raw values of analog input channels.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-18
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
218
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = channel 1, suction temperature.
Value in PointValue (1) = channel 2, discharge temperature.
Value in PointValue (2) = channel 3, oil separator temperature.
Value in PointValue (3) = channel 4, oil injection temperature.
Value in PointValue (4) = channel 5, suction pressure.
Value in PointValue (5) = channel 6, discharge pressure.
Value in PointValue (6) = channel 7, manifold/filter outlet pressure.
Value in PointValue (7) = channel 8, filter input pressure.
Value in PointValue (8) = channel 9, ground.
Value in PointValue (9) = channel 10, spare input.
Value in PointValue (10) = channel 11, percent capacity.
Value in PointValue (11) = channel 12, percent volume.
Value in PointValue (12) = channel 13, reference channel.
Value in PointValue (13) = channel 14, motor amps.
Value in PointValue (14) = channel 15, Sbx channel #1 (process temp).
Value in PointValue (15) = channel 16, Sbx channel #2.
Value in PointValue (16) = channel 17, Sbx channel #3.
Value in PointValue (17) = channel 18, Sbx channel #4.

Read Digital I/O

Description of this command:
Reads the digital I/O.
Methods used to run this command:
Digital Input
Number of points accepted by this command:
1-40
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)

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Meaning of the DriverP1 parameter:
219
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Port 1/Bit 0 - Oil separator heater on relay.
Value in PointValue (1) = Port 1/Bit 1 - Alarm indication output (1=no alarm).
Value in PointValue (2) = Port 1/Bit 2 - Trip indication output (1=no alarm).
Value in PointValue (3) = Port 1/Bit 3 - Oil pump relay output.
Value in PointValue (4) = Port 1/Bit 4 - Compressor motor relay output.
Value in PointValue (5) = Port 1/Bit 5 - Capacity increase solenoid output.
Value in PointValue (6) = Port 1/Bit 6 - Capacity decrease solenoid output.
Value in PointValue (7) = Port 1/Bit 7 - Volume increase motor output.
Value in PointValue (8) = Port 2/Bit 0 - Volume decrease motor output.
Value in PointValue (9) = Port 2/Bit 1 - Economizer solenoid output.
Value in PointValue (10) = Port 2/Bit 2 - Lead/lag selection input.
Value in PointValue (11) = Port 2/Bit 3 - Remote start/stop input.
Value in PointValue (12) = Port 2/Bit 4 - Oil separator low level input.
Value in PointValue (13) = Port 2/Bit 5 - Auxiliary #2 safety input.
Value in PointValue (14) = Port 2/Bit 6 - Compressor starter auxiliary contact input.
Value in PointValue (15) = Port 2/Bit 7 - Auxiliary #1 safety input.
Value in PointValue (16) = Port 3/Bit 0 - Remote/local selection input.
Value in PointValue (17) = Port 3/Bit 1 - Remote capacity increase input.
Value in PointValue (18) = Port 3/Bit 2 - Remote capacity decrease input.
Value in PointValue (19) = Port 3/Bit 3 - Auxiliary remote on/off #2 input.
Value in PointValue (20) = Port 3/Bit 4 - Setpoint #1/#2 active select input.
Value in PointValue (21) = Port 3/Bit 5 - SBX.
Value in PointValue (22) = Port 3/Bit 6 - SBX.
Value in PointValue (23) = Port 3/Bit 7 - SBX.
Value in PointValue (24) = Port 4/Bit 0 - Capacity at minimum indicate output.
Value in PointValue (25) = Port 4/Bit 1 - Capacity/amps at maximum indicate output.
Value in PointValue (26) = Port 4/Bit 2 - SBX.
Value in PointValue (27) = Port 4/Bit 3 - SBX.
Value in PointValue (28) = Port 4/Bit 4 - SBX.
Value in PointValue (29) = Port 4/Bit 5 - SBX.
Value in PointValue (30) = Port 4/Bit 6 - SBX.
Value in PointValue (31) = Port 4/Bit 7 - SBX.
Value in PointValue (32) = Port 5/Bit 0 - SBX.
Value in PointValue (33) = Port 5/Bit 1 - SBX.
Value in PointValue (34) = Port 5/Bit 2 - SBX.
Value in PointValue (35) = Port 5/Bit 3 - SBX.
Value in PointValue (36) = Port 5/Bit 4 - SBX.
Value in PointValue (37) = Port 5/Bit 5 - SBX.
Value in PointValue (38) = Port 5/Bit 6 - SBX.
Value in PointValue (39) = Port 5/Bit 7 - SBX.

Read Compressor Options

Description of this command:
Reads the compressor options.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-32
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
220
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Local control active or central computer control option.
Value in PointValue (1) = Auto start or manual start after power fail option.

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Value in PointValue (2) = Not used.
Value in PointValue (3) = Hot starts counter or antirecycle timer active option.
Value in PointValue (4) = Setppoint #1 prime oil pump or full time oil pump option.
Value in PointValue (5) = Process temperature control or suction pressure control option.
Value in PointValue (6) = Lead/lag enabled option.
Value in PointValue (7) = Minimum run capacity control option.
Value in PointValue (8) = Local control active or remote control active option.
Value in PointValue (9) = Setpoint #1/#2 active.
Value in PointValue (10) = Not used.
Value in PointValue (11) = Not used.
Value in PointValue (12) = Not used.
Value in PointValue (13) = Not used.
Value in PointValue (14) = Not used.
Value in PointValue (15) = Not used.
Value in PointValue (16) = Not used.
Value in PointValue (17) = Not used.
Value in PointValue (18) = Not used.
Value in PointValue (19) = Not used.
Value in PointValue (20) = Setppoint #2 prime oil pump or full time oil pump option.
Value in PointValue (21) = Not used.
Value in PointValue (22) = Not used.
Value in PointValue (23) = Not used.
Value in PointValue (24) = Not used.
Value in PointValue (25) = Not used.
Value in PointValue (26) = Not used.
Value in PointValue (27) = Not used.
Value in PointValue (28) = Not used.
Value in PointValue (29) = Not used.
Value in PointValue (30) = Not used.
Value in PointValue (31) = Not used.

Read Control Limits, Setpoint #2

Description of this command:
Reads the control limits, setpoint #2.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-40
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
221
Meaning of the DriverP2 parameter:
2
Values that are returned:
Value in PointValue (0) = Suction pressure off/on cutin.
Value in PointValue (1) = Suction pressure off/on cutout.
Value in PointValue (2) = Suction pressure capacity decrease cutin.
Value in PointValue (3) = Suction pressure capacity decrease cutout.
Value in PointValue (4) = Suction pressure capacity increase cutin.
Value in PointValue (5) = Suction pressure capacity increase cutout.
Value in PointValue (6) = Motor amps, FLA.
Value in PointValue (7) = Motor amps, MAX.
Value in PointValue (8) = Current transformer ratio primary value.
Value in PointValue (9) = Current transformer ratio secondary value.
Value in PointValue (10) = Minimum run capacity limit cutin.
Value in PointValue (11) = Minimum run capacity limit cutout.
Value in PointValue (12) = Auto cap increase cutin.
Value in PointValue (13) = Auto cap increase cutout.
Value in PointValue (14) = Economizer solenoid cutin.
Value in PointValue (15) = Economizer solenoid cutout.
Value in PointValue (16) = Oil separator heater cutin.

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Value in PointValue (17) = Oil separator heater cutout.
Value in PointValue (18) = Not used.
Value in PointValue (19) = Not used.
Value in PointValue (20) = P1-P3 pump restart ratio cutin.
Value in PointValue (21) = P1-P3 pump restart ratio cutout.
Value in PointValue (22) = Lead/lag capacity step value.
Value in PointValue (23) = Not used.
Value in PointValue (24) = Lead compressor maximum capacity cutin.
Value in PointValue (25) = Lead compressor maximum capacity cutout.
Value in PointValue (26) = capacity range volume adjust factor cutin.
Value in PointValue (27) = capacity range volume adjust factor cutout.
Value in PointValue (28) = Desired percent volume correction factor.
Value in PointValue (29) = Not used.
Value in PointValue (30) = Not used.
Value in PointValue (31) = Not used.
Value in PointValue (32) = Process temperature off/on cutin.
Value in PointValue (33) = Process temperature off/on cutout.
Value in PointValue (34) = Process temperature capacity decrease cutin.
Value in PointValue (35) = Process temperature capacity decrease cutout.
Value in PointValue (36) = Process temperature capacity increase cutin.
Value in PointValue (37) = Process temperature capacity increase cutout.
Value in PointValue (38) = Not used.
Value in PointValue (39) = Not used.

Write Trip Limit

Description of this command:
Writes the trip limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
225
Meaning of the DriverP2 parameter:
2
Meaning of the DriverP3 parameter:
Defines the trip limit to be changed.
- 1 = Low suction temperature.
- 2 = High discharge temperature.
- 3 = Low oil separate temperature #1.
- 4 = Low oil separate temperature #2.
- 5 = Low oil injection temperature.
- 6 = High oil injection temperature.
- 7 = Low suction pressure setpoint #1.
- 8 = Low suction pressure setpoint #2.
- 9 = High discharge pressure setpoint #1.
- 10 = High discharge pressure setpoint #2.
- 11 = Low control temperature.
- 12 = Low run monitor oil pressure.
- 13 = Not used.
- 14 = Low allow start oil pressure.
- 15 = High filter #1 differential pressure.
- 16 = High filter #2 differential pressure.
- 17 = Percent full load amps.
- 18 = High amp. limit.

Write Alarm Limit

Description of this command:
Writes the alarm limits.

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Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
226
Meaning of the DriverP2 parameter:
2
Meaning of the DriverP3 parameter:
Defines the alarm limit to be changed.
- 1 = Low suction temperature.
- 2 = High discharge temperature.
- 3 = Low oil separate temperature #1.
- 4 = Low oil separate temperature #2.
- 5 = Low oil injection temperature.
- 6 = High oil injection temperature.
- 7 = Low suction pressure setpoint #1.
- 8 = Low suction pressure setpoint #2.
- 9 = High discharge pressure setpoint #1.
- 10 = High discharge pressure setpoint #2.
- 11 = Low control temperature.
- 12 = Low run monitor oil pressure.
- 13 = High control temperature.
- 14 = Low allow start oil pressure.
- 15 = High filter #1 differential pressure.
- 16 = High filter #2 differential pressure.
- 17 = Percent full load amps.
- 18 = High amp. limit.

Write Reset Limits

Description of this command:
Writes the reset limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
227
Meaning of the DriverP2 parameter:
2
Meaning of the DriverP3 parameter:
Defines the reset limit to be changed.
- 1 = Low suction temperature.
- 2 = High discharge temperature.
- 3 = Low oil separate temperature #1.
- 4 = Low oil separate temperature #2.
- 5 = Low oil injection temperature.
- 6 = High oil injection temperature.
- 7 = Low suction pressure setpoint #1.
- 8 = Low suction pressure setpoint #2.
- 9 = High discharge pressure setpoint #1.
- 10 = High discharge pressure setpoint #2.
- 11 = Low control temperature.
- 12 = Low run monitor oil pressure.
- 13 = Not used.
- 14 = Low allow start oil pressure.
- 15 = High filter #1 differential pressure.
- 16 = High filter #2 differential pressure.

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- 17 = Not used.
- 18 = Not used.

Write Control Limit

Description of this command:
Writes the control limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
228
Meaning of the DriverP2 parameter:
2
Meaning of the DriverP3 parameter:
Defines the control limit to be changed.
- 1 = On/off cutin.
- 2 = On/off cutout.
- 3 = capacity decrement cutin.
- 4 = capacity decrement cutout.
- 5 = capacity increment cutin.
- 6 = capacity increment cutout.
- 7 = Full load amps.
- 8 = Maximum amps.
- 9 = Current transformer ratio.
- 10 = Economizer solenoid cutin.
- 11 = Economizer solenoid cutout.
- 12 = volume adjusted factor capacity range cutin.
- 13 = volume adjusted factor capacity range cutout.
- 14 = Percent volume correction factor.
- 15 = Minimum run capacity cutin.
- 16 = Minimum capacity cutout.
- 17 = Auto capacity load cutin.
- 18 = Auto capacity load cutout.
- 19 = lag, capacity step increment.
- 20 = Lead,maximum capacity flag cutin.
- 21 = Lead,maximum capacity flag cutout.
- 22 = Oil separate heater cutin.
- 23 = Oil separate heater cutout.
- 24 = P1-P3 restart ratio cutin.
- 25 = P1-P3 restart ratio cutout.
- 26 = On/off cutin (process control).
- 27 = On/off cutin (process control).
- 28 = capacity decrement cutin (process control).
- 29 = capacity decrement cutout (process control).
- 30 = capacity increment cutin (process control).
- 31 = capacity increment cutout (process control).
- 32 = On/off cutin setpoint #2.
- 33 = On/off cutout setpoint #2.
- 34 = capacity decrement cutin setpoint #2.
- 35 = capacity decrement cutout setpoint #2.
- 36 = capacity increment cutin setpoint #2.
- 37 = capacity increment cutout setpoint #2.
- 38 = Full load amps setpoint #2.
- 39 = Maximum amps setpoint #2.
- 40 = Current transformer ratio setpoint #2.
- 41 = Economizer solenoid cutin setpoint #2.
- 42 = Economizer solenoid cutout setpoint #2.
- 43 = volume adjusted factor capacity range cutin setpoint #2.
- 44 = volume adjusted factor capacity range cutout setpoint #2.

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- 45 = Percent volume correction factor setpoint #2.
- 46 = Minimum run capacity cutin setpoint #2.
- 47 = Minimum capacity cutout setpoint #2.
- 48 = Auto capacity load cutin setpoint #2.
- 49 = Auto capacity load cutout setpoint #2.
- 50 = lag, capacity step increment setpoint #2.
- 51 = Lead,maximum capacity flag cutin setpoint #2.
- 52 = Lead,maximum capacity flag cutout setpoint #2.
- 53 = Oil separate heater cutin setpoint #2.
- 54 = Oil separate heater cutout setpoint #2.
- 55 = P1-P3 restart ratio cutin setpoint #2.
- 56 = P1-P3 restart ratio cutout setpoint #2.
- 57 = On/off cutin setpoint #2 (process control).
- 58 = On/off cutin setpoint #2 (process control).
- 59 = capacity decrement cutin setpoint #2 (process control).
- 60 = capacity decrement cutout setpoint #2 (process control).
- 61 = capacity increment cutin setpoint #2 (process control).
- 62 = capacity increment cutout setpoint #2 (process control).

Write Timer Values

Description of this command:
Writes the timer values.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
229
Meaning of the DriverP2 parameter:
2
Meaning of the DriverP3 parameter:
Defines the timer values to be changed.

- 1 = capacity increment on timer.
- 2 = capacity decrement on timer.
- 3 = Slide valve return after shutdown.
- 4 = Motor start interlock bypass.
- 5 = capacity increment off.
- 6 = capacity decrement off.
- 7 = Oil pressure valid allow start.
- 8 = Run cycle oil pressure bypass.
- 9 = Oil separate temperature safety change-over.
- 10 = Low oil injection temperature safety change-over.
- 11 = Pump run limit w/o start oil pressure.
- 12 = Auto restart after power fail.
- 13 = capacity hold off time.
- 14 = capacity hold on time.
- 15 = antirecycle timer.
- 16 = Filter pressure change-over timer.
- 17 = At start capacity & volume decrease timer.
- 18 = Low oil separate level bypass timer.
- 19 = Start lag compressor timer.
- 20 = Stop lag compressor timer.
- 21 = Force start lag compressor timer.
- 22 = volume slide adjustment timer.
- 23 = Hot starts/hr.

Write Capacity Setpoints

Description of this command:
Writes the capacity setpoints.

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Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
230
Meaning of the DriverP2 parameter:
2

Stop Compressor Command

Description of this command:
Stops the compressor.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
231
Meaning of the DriverP2 parameter:
2

Auto Mode Command

Description of this command:
Writes the auto mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
232
Meaning of the DriverP2 parameter:
2

Manual Mode Command

Description of this command:
Writes the manual mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
233
Meaning of the DriverP2 parameter:
2

Alarm Acknowledge

Description of this command:
Acknowledges the alarm.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1

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Meaning of the DriverP0 parameter:
Unit Address (0 or 100-149)
Meaning of the DriverP1 parameter:
236
Meaning of the DriverP2 parameter:
2
[Evaporative Condenser Commands]

Evaporative Condenser Commands

Read Compressor Status

Description of this command:
Reads the compressor status.
Methods used to run this command:
Digital Input
Number of points accepted by this command:
1-37
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
209
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Auto Mode.
Value in PointValue (1) = Manual Mode.
Value in PointValue (2) = Condenser control on.
Value in PointValue (3) = Not used.
Value in PointValue (4) = Host powerup byte.
Value in PointValue (5) = Central Mode (1=Central/0=Local).
Value in PointValue (6) = Alarm active.
Value in PointValue (7) = Trip active.
Value in PointValue (8) = Cmp waiting, condenser pressure.
Value in PointValue (9) = Not used.
Value in PointValue (10) = Not used.
Value in PointValue (11) = Not used.
Value in PointValue (12) = Not used.
Value in PointValue (13) = Not used.
Value in PointValue (14) = Not used.
Value in PointValue (15) = Not used.
Value in PointValue (16) = Ambient temperature alarm.
Value in PointValue (17) = Not used.
Value in PointValue (18) = Not used.
Value in PointValue (19) = Not used.
Value in PointValue (20) = Condenser pressure alarm.
Value in PointValue (21) = Not used.
Value in PointValue (22) = Not used.
Value in PointValue (23) = Not used.
Value in PointValue (24) = Not used.
Value in PointValue (25) = Not used.
Value in PointValue (26) = Not used.
Value in PointValue (27) = Not used.
Value in PointValue (28) = Not used.
Value in PointValue (29) = Not used.
Value in PointValue (30) = Not used.
Value in PointValue (31) = Not used.
Value in PointValue (32) = Ambient temperature trip.
Value in PointValue (33) = Not used.
Value in PointValue (34) = Not used.
Value in PointValue (35) = Not used.
Value in PointValue (36) = Condenser pressure trip.

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Read Scaled Current Values

Description of this command:
Reads the scaled current values.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-19
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
210
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Ambient temperature.
Value in PointValue (1) = Spare.
Value in PointValue (2) = Spare.
Value in PointValue (3) = Spare.
Value in PointValue (4) = condenser pressure.
Value in PointValue (5) = Not used.
Value in PointValue (6) = Not used.
Value in PointValue (7) = Not used.
Value in PointValue (8) = Ground.
Value in PointValue (9) = Not used.
Value in PointValue (10) = Not used.
Value in PointValue (11) = Not used.
Value in PointValue (12) = Not used.
Value in PointValue (13) = Motor amps.
Value in PointValue (14) = Not used.
Value in PointValue (15) = Not used.
Value in PointValue (16) = Percent capacity.
Value in PointValue (17) = #Total fans on.
Value in PointValue (18) = #Total pumps on.

Read Trip Limits

Description of this command:
Reads the trip limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-32
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
211
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Ambient low temperature low trip.
Value in PointValue (1) = Ambient high temperature high trip.
Value in PointValue (2) = Spare temperature low trip.
Value in PointValue (3) = Spare temperature high trip.
Value in PointValue (4) = Spare temperature low trip.
Value in PointValue (5) = Spare temperature high trip.
Value in PointValue (6) = Spare temperature low trip.
Value in PointValue (7) = Spare temperature high trip.
Value in PointValue (8) = Condenser low pressure trip.
Value in PointValue (9) = Condenser high pressure trip.
Value in PointValue (10) = Spare low trip.
Value in PointValue (11) = Spare high trip.
Value in PointValue (12) = Spare low trip.

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Value in PointValue (13) = Spare high trip.
Value in PointValue (14) = Spare low trip.
Value in PointValue (15) = Spare high trip.
Value in PointValue (16) = Not used. low trip.
Value in PointValue (17) = Not used. high trip.
Value in PointValue (18) = Spare low trip.
Value in PointValue (19) = Spare high trip.
Value in PointValue (20) = Spare low trip.
Value in PointValue (21) = Spare high trip.
Value in PointValue (22) = Spare low trip.
Value in PointValue (23) = Spare high trip.
Value in PointValue (24) = Calc #1 value low trip.
Value in PointValue (25) = Calc #1 value high trip.
Value in PointValue (26) = Calc #2 value low trip.
Value in PointValue (27) = Calc #2 value high trip.
Value in PointValue (28) = Spare low trip.
Value in PointValue (29) = Spare high trip.
Value in PointValue (30) = Spare low trip.
Value in PointValue (31) = Spare high trip.

Read Alarm Limits

Description of this command:
Reads the alarm limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-32
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
212
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Ambient low temperature alarm.
Value in PointValue (1) = Ambient high temperature alarm.
Value in PointValue (2) = Spare low temperature alarm.
Value in PointValue (3) = Spare high temperature alarm.
Value in PointValue (4) = Spare low temperature alarm.
Value in PointValue (5) = Spare high temperature alarm.
Value in PointValue (6) = Spare low temperature alarm.
Value in PointValue (7) = Spare high temperature alarm.
Value in PointValue (8) = Condenser low pressure alarm.
Value in PointValue (9) = Condenser high pressure alarm.
Value in PointValue (10) = Spare low alarm.
Value in PointValue (11) = Spare high alarm.
Value in PointValue (12) = Spare low alarm.
Value in PointValue (13) = Spare high alarm.
Value in PointValue (14) = Spare low alarm.
Value in PointValue (15) = Spare high alarm.
Value in PointValue (16) = Not used. low alarm.
Value in PointValue (17) = Not used. high alarm.
Value in PointValue (18) = Spare low alarm.
Value in PointValue (19) = Spare high alarm.
Value in PointValue (20) = Spare low alarm.
Value in PointValue (21) = Spare high alarm.
Value in PointValue (22) = Spare low alarm.
Value in PointValue (23) = Spare high alarm.
Value in PointValue (24) = Calc #1 value low alarm.
Value in PointValue (25) = Calc #1 value high alarm.
Value in PointValue (26) = Calc #2 value low alarm.
Value in PointValue (27) = Calc #2 value high alarm.

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Value in PointValue (28) = Spare low alarm.
Value in PointValue (29) = Spare high alarm.
Value in PointValue (30) = Spare low alarm.
Value in PointValue (31) = Spare high alarm.

Read Reset Limits

Description of this command:
Reads the reset limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-32
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
213
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Ambient low temperature reset.
Value in PointValue (1) = Ambient high temperature reset.
Value in PointValue (2) = Spare low temperature reset.
Value in PointValue (3) = Spare high temperature reset.
Value in PointValue (4) = Spare low temperature reset.
Value in PointValue (5) = Spare high temperature reset.
Value in PointValue (6) = Spare low temperature reset.
Value in PointValue (7) = Spare high temperature reset.
Value in PointValue (8) = Condenser low pressure reset.
Value in PointValue (9) = Condenser high pressure reset.
Value in PointValue (10) = Spare low reset.
Value in PointValue (11) = Spare high reset.
Value in PointValue (12) = Spare low reset.
Value in PointValue (13) = Spare high reset.
Value in PointValue (14) = Spare low reset.
Value in PointValue (15) = Spare high reset.
Value in PointValue (16) = Not used. low reset.
Value in PointValue (17) = Not used. high reset.
Value in PointValue (18) = Spare low reset.
Value in PointValue (19) = Spare high reset.
Value in PointValue (20) = Spare low reset.
Value in PointValue (21) = Spare high reset.
Value in PointValue (22) = Spare low reset.
Value in PointValue (23) = Spare high reset.
- HMIrial1.PointValue(24) = Calc #1 value low reset.
Value in PointValue (25) = Calc #1 value high reset.
Value in PointValue (26) = Calc #2 value low reset.
Value in PointValue (27) = Calc #2 value high reset.
Value in PointValue (28) = Spare low reset.
Value in PointValue (29) = Spare high reset.
Value in PointValue (30) = Spare low reset.
Value in PointValue (31) = Spare high reset.

Read Control Limits

Description of this command:
Reads the control limits.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-11
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)

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Meaning of the DriverP1 parameter:
214
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Control setpoint #1.
Value in PointValue (1) = Load deadband setpoint #1.
Value in PointValue (2) = Unload deadband setpoint #1.
Value in PointValue (3) = Current transformer ratio.
Value in PointValue (4) = Full load amps setpoint.
Value in PointValue (5) = Maximum amps setpoint.
Value in PointValue (6) = Winter control setpoint cutin.
Value in PointValue (7) = Winter control setpoint cutout.
Value in PointValue (8) = Control setpoint #2.
Value in PointValue (9) = Load deadband setpoint #2.
Value in PointValue (10) = Unload deadband setpoint #2.

Read Timer Preset Values

Description of this command:
Reads the timer preset values.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-48
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
215
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Spare.
Value in PointValue (1) = Spare.
Value in PointValue (2) = Maximum time minimum capacity.
Value in PointValue (3) = Spare.
Value in PointValue (4) = Compressor load time.
Value in PointValue (5) = Compressor unload time.
Value in PointValue (6) = Spare.
Value in PointValue (7) = Spare.
Value in PointValue (8) = Auto restart pulse timer.
Value in PointValue (9) = Spare.
Value in PointValue (10) = Spare.
Value in PointValue (11) = Spare.
Value in PointValue (12) = Spare.
Value in PointValue (13) = Spare.
Value in PointValue (14) = Spare.
Value in PointValue (15) = Spare.
Value in PointValue (16) = Condenser step#1 timer 17 (low speed).
Value in PointValue (17) = Condenser step#1 timer 18 (high speed).
Value in PointValue (18) = Condenser step#2 timer 19 (low speed).
Value in PointValue (19) = Condenser step#2 timer 20 (high speed).
Value in PointValue (20) = Condenser step#3 timer 21 (low speed).
Value in PointValue (21) = Condenser step#3 timer 22 (high speed).
Value in PointValue (22) = Condenser step#4 timer 23 (low speed).
Value in PointValue (23) = Condenser step#4 timer 24 (high speed).
Value in PointValue (24) = Condenser step#5 timer 25 (low speed).
Value in PointValue (25) = Condenser step#5 timer 26 (high speed).
Value in PointValue (26) = Condenser step#6 timer 27 (low speed).
Value in PointValue (27) = Condenser step#6 timer 28 (high speed).
Value in PointValue (28) = Condenser step#7 timer 29 (low speed).
Value in PointValue (29) = Condenser step#7 timer 30 (high speed).
Value in PointValue (30) = Condenser step#8 timer 31 (low speed).

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Value in PointValue (31) = Condenser step#8 timer 32 (high speed).
Value in PointValue (32) = Condenser step#9 timer 33 (low speed).
Value in PointValue (33) = Condenser step#9 timer 34 (high speed).
Value in PointValue (34) = Condenser step#10 timer 35 (low speed).
Value in PointValue (35) = Condenser step#10 timer 36 (high speed).
Value in PointValue (36) = Condenser step#11 timer 37 (low speed).
Value in PointValue (37) = Condenser step#11 timer 38 (high speed).
Value in PointValue (38) = Condenser step#12 timer 39 (low speed).
Value in PointValue (39) = Condenser step#12 timer 40 (high speed).
Value in PointValue (40) = Condenser step#13 timer 41 (low speed).
Value in PointValue (41) = Condenser step#13 timer 42 (high speed).
Value in PointValue (42) = Condenser step#14 timer 43 (low speed).
Value in PointValue (43) = Condenser step#14 timer 44 (high speed).
Value in PointValue (44) = Condenser step#15 timer 45 (low speed).
Value in PointValue (45) = Condenser step#15 timer 46 (high speed).
Value in PointValue (46) = Condenser step#16 timer 47 (low speed).
Value in PointValue (47) = Condenser step#16 timer 48 (high speed).

Read Compressor Runtime Tallies

Description of this command:
Reads the compressor runtime tallies.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-3
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
216
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Hours.
Value in PointValue (1) = Minutes.
Value in PointValue (2) = Seconds.

Read Event List

Description of this command:
Reads the event list.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-64
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
217
Meaning of the DriverP2 parameter:
3
Meaning of the DriverP3 parameter:
Defines the log page number (1-4).
Values that are returned:
Value in PointValue (0) = Event code.
Value in PointValue (1) = Hour (military time).
Value in PointValue (2) = Minutes.
Value in PointValue (3) = Seconds.
Value in PointValue (n-3) = Event code.
Value in PointValue (n-2) = Hour (military time).
Value in PointValue (n-1) = Minutes.
Value in PointValue (n) = Seconds. For a date change code, the format is:
Value in PointValue (x0) = Event code.

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Value in PointValue (x1) = Month number.
Value in PointValue (x2) = Day.
Value in PointValue (x3) = Last 2 digits of year.
The event codes are:
- 0 = Ambient F alarm.
- 1 = Spare F alarm.
- 2 = Spare F alarm.
- 3 = Spare F alarm.
- 4 = Condenser pressure alarm.
- 16 = Ambient F failure.
- 17 = Spare F failure.
- 18 = Spare F failure.
- 19 = Spare F failure.
- 20 = Condenser pressure failure.
- 31 = Overloads failure.
- 35 = Auto command received.
- 36 = Manual command received.
- 37 = Stop command received.
- 38 = Control on.
- 39 = Control off.
- 40 = Panel powered up.
- 41 = Panel powered down.
- 42 = Date change occurred.

Read Raw Values of Analog Input Channels

Description of this command:
Reads the raw values of analog input channels.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-14
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
218
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = channel 1, ambient temperature.
Value in PointValue (1) = channel 2, spare temperature.
Value in PointValue (2) = channel 3, spare temperature.
Value in PointValue (3) = channel 4, spare temperature.
Value in PointValue (4) = channel 5, condenser pressure.
Value in PointValue (5) = channel 6, Not used.
Value in PointValue (6) = channel 7, Not used.
Value in PointValue (7) = channel 8, Not used.
Value in PointValue (8) = channel 9, ground.
Value in PointValue (9) = channel 10, Not used.
Value in PointValue (10) = channel 11, Not used.
Value in PointValue (11) = channel 12, Not used.
Value in PointValue (12) = channel 13, reference channel.
Value in PointValue (13) = channel 14, motor amps.

Read Digital I/O

Description of this command:
Reads the digital I/O.
Methods used to run this command:
Digital Input
Number of points accepted by this command:
1-16

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Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
219
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Port 1/Bit 0 - Pump/fan step 1.
Value in PointValue (1) = Port 1/Bit 1 - Pump/fan step 2.
Value in PointValue (2) = Port 1/Bit 2 - Pump/fan step 3.
Value in PointValue (3) = Port 1/Bit 3 - Pump/fan step 4.
Value in PointValue (4) = Port 1/Bit 4 - Pump/fan step 5.
Value in PointValue (5) = Port 1/Bit 5 - Pump/fan step 6.
Value in PointValue (6) = Port 1/Bit 6 - Pump/fan step 7.
Value in PointValue (7) = Port 1/Bit 7 - Pump/fan step 8.
Value in PointValue (8) = Port 2/Bit 0 - Pump/fan step 9.
Value in PointValue (9) = Port 2/Bit 1 - Pump/fan step 10.
Value in PointValue (10) = Port 2/Bit 2 - Pump/fan step 11.
Value in PointValue (11) = Port 2/Bit 3 - Pump/fan step 12.
Value in PointValue (12) = Port 2/Bit 4 - Pump/fan step 13.
Value in PointValue (13) = Port 2/Bit 5 - Pump/fan step 14.
Value in PointValue (14) = Port 2/Bit 6 - Pump/fan step 15.
Value in PointValue (15) = Port 2/Bit 7 - Not defined - input.

Read Compressor Options

Description of this command:
Reads the compressor options.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-4
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
220
Meaning of the DriverP2 parameter:
3
Values that are returned:
Value in PointValue (0) = Not used.
Value in PointValue (1) = Auto start or manual start after power fail option.
Value in PointValue (2) = Manually select summer/winter schedule or temperature.
Value in PointValue (3) = Summer schedule selection or winter schedule selection.

Write Trip Limit

Description of this command:
Writes the trip limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
225
Meaning of the DriverP2 parameter:
3
Meaning of the DriverP3 parameter:
Defines the trip limit to be changed.
- 1 = Low ambient temperature.
- 2 = Spare.
- 1 = Spare.

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- 2 = Spare.
- 3 = High condensing pressure.
- 4 = Spare.
- 5 = Spare.
- 6 = Spare.
- 7 = Not used.
- 8 = Spare.
- 9 = Spare.
- 10 = Spare.
- 11 = Spare.
- 12 = Spare.
- 13 = Spare.
- 14 = Spare.

Write Alarm Limit

Description of this command:
Writes the alarm limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
226
Meaning of the DriverP2 parameter:
3
Meaning of the DriverP3 parameter:
Defines the alarm limit to be changed.

- 1 = Low ambient temperature.
- 2 = Condensing pressure.
- 3 = Spare.
- 4 = Spare.
- 5 = Spare.
- 6 = Spare.
- 7 = Spare.
- 8 = Spare.
- 9 = Spare.
- 10 = Spare.
- 11 = Spare.
- 12 = Spare.
- 13 = Spare.
- 14 = Spare.
- 15 = Spare.
- 16 = Spare.

Write Reset Limits

Description of this command:
Writes the reset limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
227
Meaning of the DriverP2 parameter:
3
Meaning of the DriverP3 parameter:
Defines the reset limit to be changed.

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- 1 = Low ambient temperature.
- 2 = Condensing pressure.
- 3 = Spare.
- 4 = Spare.
- 5 = Spare.
- 6 = Spare.
- 7 = Spare.
- 8 = Spare.
- 9 = Spare.
- 10 = Spare.
- 11 = Spare.
- 12 = Spare.
- 13 = Spare.
- 14 = Spare.
- 15 = Spare.
- 16 = Spare.

Write Control Limit

Description of this command:
Writes the control limits.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
228
Meaning of the DriverP2 parameter:
3
Meaning of the DriverP3 parameter:
Defines the control limit to be changed.

- 1 = Control setpoint.
- 2 = Load deadband.
- 3 = Unload deadband.
- 4 = Not used.
- 5 = Not used.
- 6 = Not used.
- 7 = Ambient temperature cutin setpoint (change to winter cfg table).
- 8 = Ambient temperature cutin setpoint (change to summer cfg table).

Write Timer Values

Description of this command:
Writes the timer values.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
229
Meaning of the DriverP2 parameter:
3
Meaning of the DriverP3 parameter:
Defines the timer values to be changed.

- 1 = Spare.
- 2 = Spare.
- 3 = Maximum time @ minimum capacity.
- 4 = Spare.
- 5 = Load timer.

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- 6 = Unload timer.
- 7 = Spare.
- 8 = Spare.
- 9 = Auto start reset pulse timer.
- 10 = Spare.
- 11 = Spare.
- 12 = Spare.
- 13 = Spare.
- 14 = Spare.
- 15 = Spare.
- 16 = Spare.
- 17 = Step #1 low speed delay timer 17.
- 18 = Step #1 high speed delay timer 18.
- 19 = Step #2 low speed delay timer 19.
- 20 = Step #2 high speed delay timer 20.
- 21 = Step #3 low speed delay timer 21.
- 22 = Step #3 high speed delay timer 22.
- 23 = Step #4 low speed delay timer 23.
- 24 = Step #4 high speed delay timer 24.
- 25 = Step #5 low speed delay timer 25.
- 26 = Step #5 high speed delay timer 26.
- 27 = Step #6 low speed delay timer 27.
- 28 = Step #6 high speed delay timer 28.
- 29 = Step #7 low speed delay timer 29.
- 30 = Step #7 high speed delay timer 30.
- 31 = Step #8 low speed delay timer 31.
- 32 = Step #8 high speed delay timer 32.
- 33 = Step #9 low speed delay timer 33.
- 34 = Step #9 high speed delay timer 34.
- 35 = Step #10 low speed delay timer 35.
- 36 = Step #10 high speed delay timer 36.
- 37 = Step #11 low speed delay timer 37.
- 38 = Step #11 high speed delay timer 38.
- 39 = Step #12 low speed delay timer 39.
- 40 = Step #12 high speed delay timer 40.
- 41 = Step #13 low speed delay timer 41.
- 42 = Step #13 high speed delay timer 42.
- 43 = Step #14 low speed delay timer 43.
- 44 = Step #14 high speed delay timer 44.
- 45 = Step #15 low speed delay timer 45.
- 46 = Step #15 high speed delay timer 46.
- 47 = Step #16 low speed delay timer 47.
- 48 = Step #16 high speed delay timer 48.

Write Capacity Setpoints

Description of this command:
Writes the capacity setpoints.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
230
Meaning of the DriverP2 parameter:
3

Stop Compressor Command

Description of this command:
Stops the compressor.

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Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
231
Meaning of the DriverP2 parameter:
3

Auto Mode Command

Description of this command:
Writes the auto mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
232
Meaning of the DriverP2 parameter:
3

Manual Mode Command

Description of this command:
Writes the manual mode command.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
233
Meaning of the DriverP2 parameter:
3

Alarm Acknowledge

Description of this command:
Acknowledges the alarm.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0 or 150-174)
Meaning of the DriverP1 parameter:
23

Error messages

The following list shows the possible error messages that can be returned by the driver during a failed communication in the 'Status' property.

[1005] DRIVER (Internal): Invalid driver stage
[1300] PROTOCOL (Timeout): No answer
[1414] PROTOCOL (Format): Invalid received data length
[1433] PROTOCOL (Format): Validation error in device response

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[2147] CONFIG (NumValues): Only one value can be read or written
[2176] CONFIG (NumValues): Too many values (max=10)
[2179] CONFIG (NumValues): Too many values (max=11)
[2187] CONFIG (NumValues): Too many values (max=14)
[2188] CONFIG (NumValues): Too many values (max=15)
[2189] CONFIG (NumValues): Too many values (max=16)
[2191] CONFIG (NumValues): Too many values (max=17)
[2192] CONFIG (NumValues): Too many values (max=18)
[2193] CONFIG (NumValues): Too many values (max=19)
[2195] CONFIG (NumValues): Too many values (max=20)
[2198] CONFIG (NumValues): Too many values (max=22)
[2205] CONFIG (NumValues): Too many values (max=28)
[2206] CONFIG (NumValues): Too many values (max=3)
[2208] CONFIG (NumValues): Too many values (max=31)
[2209] CONFIG (NumValues): Too many values (max=32)
[2210] CONFIG (NumValues): Too many values (max=33)
[2211] CONFIG (NumValues): Too many values (max=34)
[2215] CONFIG (NumValues): Too many values (max=38)
[2216] CONFIG (NumValues): Too many values (max=4)
[2217] CONFIG (NumValues): Too many values (max=40)
[2220] CONFIG (NumValues): Too many values (max=48)
[2230] CONFIG (NumValues): Too many values (max=64)
[2240] CONFIG (NumValues): Too many values (max=9)
[3035] CONFIG (P0): Invalid evaporative condenser address (0 or 150-174)
[3041] CONFIG (P0): Invalid reciprocating compressor address (0 or 5-49)
[3043] CONFIG (P0): Invalid single screw compressor address (0 or 100-149)
[3048] CONFIG (P0): Invalid twin screw compressor address (0 or 50-99)
[3508] CONFIG (P1): Invalid command
[4057] CONFIG (P2): Invalid device (0-3)
[4504] CONFIG (P3): Invalid alarm limit selected (1-11)
[4505] CONFIG (P3): Invalid alarm limit selected (1-15)
[4506] CONFIG (P3): Invalid alarm limit selected (1-18)
[4507] CONFIG (P3): Invalid alarm limit selected (1-2)
[4524] CONFIG (P3): Invalid control limit selected (1-24)
[4525] CONFIG (P3): Invalid control limit selected (1-3 or 7-8)
[4526] CONFIG (P3): Invalid control limit selected (1-42)
[4527] CONFIG (P3): Invalid control limit selected (1-62)
[4553] CONFIG (P3): Invalid page (1-4)
[4561] CONFIG (P3): Invalid reset limit selected (1-11)
[4562] CONFIG (P3): Invalid reset limit selected (1-14)
[4563] CONFIG (P3): Invalid reset limit selected (1-18)
[4564] CONFIG (P3): Invalid reset limit selected (1-2)
[4575] CONFIG (P3): Invalid timer selected (1-17)
[4576] CONFIG (P3): Invalid timer selected (1-23)
[4577] CONFIG (P3): Invalid timer selected (3-48)
[4578] CONFIG (P3): Invalid trip limit selected (1 or 5)
[4579] CONFIG (P3): Invalid trip limit selected (1-11)
[4580] CONFIG (P3): Invalid trip limit selected (1-14)
[4581] CONFIG (P3): Invalid trip limit selected (1-18)
[8030] CONFIG (Remote): Bad parameter number
[8228] CONFIG (Remote): No response from node
[8347] CONFIG (Remote): Unknown error
[8360] CONFIG (Remote): Value (limit) out of range

Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

VILTER PLC Panel Nodes
VILTER Reciprocating Compressor Nodes
VILTER Twin Screw Compressor Nodes
VILTER Single Screw Compressor Nodes

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VILTER Evaporative Condenser Nodes
VILTER Air Unit Nodes
VILTER Additional Miscelaneous Equipment Nodes
VILTER Master Node

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