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XUDC3000 Driver Manual

Honeywell UDC 3000 Universal Digital Controllers Driver

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XUDC3000 technical specifications

General information

XUDC3000 driver allows you to connect to the HONEYWELL UDC3000, UDC5000 and UDC6000 controllers. The protocol uses is the ASCII protocol, not the DMCS protocol, and the controller must be configured for RS-422/485.

Pin assignment should be:

- UDC3000 pin 7 -----> TX+/RX+ in the PC or converter
- UDC3000 pin 8 -----> TX-/RX- in the PC or converter

If you cannot communicate or if you are using RS-485 to connect to the device, you should set the RTS signal during the communication. This can be done by setting the RTSEnable argument when calling the read and write methods. If you still cannot communicate, check that your RS-485 cables are not inverted.

This driver was developed according to the information contained in the 'Product Manual UDC 3000 RS-422/485 Communications Option' version 51-51-25-08 12/88. Some differences were detected in the protocol actually used by the controller with which tests were made. This controller was an UDC 3000 model DC3004-0-40A-2-00-0111. Using this driver with different models could cause some errors, such as timeout errors.

Important note:

A delay may appear when changing some data in the controller, such as SetPoint #1 that can take over 30 seconds to be acknowledged.

Command list

Read PV, Setpoint and Output

Description of this command:

Reads the current values for the set point, measurement, and output, plus additional controller alarm information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-13

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

122

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Values that are returned:

Value in PointValue (0) = Process Variable.

Value in PointValue (1) = SetPoint.

Value in PointValue (2) = Output.

Value in PointValue (3) = ALARM Bit 0: Alarm #1 On.

Value in PointValue (4) = ALARM Bit 1: Alarm #1 Change of state.

Value in PointValue (5) = ALARM Bit 2: Alarm #2 On.

Value in PointValue (6) = ALARM Bit 3: Alarm #2 Change of state.

Value in PointValue (7) = ALARM Bit 4: Not used.

Value in PointValue (8) = ALARM Bit 5: = 0 LSHMITalk1.DriverP, = 1 RSP

Value in PointValue (9) = ALARM Bit 6: = 0 Manual, = 1 Auto

Value in PointValue (10) = ALARM Bit 7: = 0 Slave, = 1 Monitor

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Value in PointValue (11) = ALARM Bits 8 to 11, where:
1 = UDC received invalid data and aborted the operation.
2 = UDC is busy (Ret'd on WRITES).
4 = UDC cannot perform requested operation in current mode.
6 = UDC performing Autotune.
7 = UDC unable to perform request at present time.
Value in PointValue (12) = ALARM Bits 12 to 15, where:
8 = UDC error status has changed.

Read Internal Input #1

Description of this command:

Reads the current value for the internal input #1 information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

118

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Internal Input #2

Description of this command:

Reads the current value for the internal input #2 information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

119

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Current Process Value

Description of this command:

Reads the current process value information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

120

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

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- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Internal RV

Description of this command:

Reads the current value for the internal RV information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

121

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Local SetPoint #1

Description of this command:

Reads the current value for the local SetPoint #1.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

39

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Local SetPoint #2

Description of this command:

Reads the current value for the local SetPoint #2.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

53

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Local SetPoint Select

Description of this command:

Reads the current value for the set point, measurement, and output, plus additional controller alarm information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

173

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Values that are sent:

- 0 = Local SetPoint #1 Only
- 1 = 2nd Local SetPoint via Keyboard or Communications

Read Computer SetPoint

Description of this command:

Reads the current value for the computer SetPoint.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

125

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Override Input 1

Description of this command:

Reads the current value for the override Input 1.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

124

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP

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- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Override Selections

Description of this command:

Reads the current value for the override selections.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

183

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Values that are sent:

- 0 = Cancels Input 1 (PV) Override
- 8 = Cancels SetPoint Override
- 9 = Cancels Both Overrides

Read Output Value

Description of this command:

Reads the current value for the output.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

123

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Enhanced Functions

Description of this command:

Reads the current value for the enhanced functions information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

250

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual

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- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Output Current Calibration 0%

Description of this command:

Reads the current value for output current calibration 0% information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

33

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Output Current Calibration 100%

Description of this command:

Reads the current value for output current calibration 100% information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

34

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read Software Type

Description of this command:

Reads the software type information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

157

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change

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- 4 = Monitor, No Change

Values that are sent:

- 1 = Basic UDC 3000
- 2 = Field Upgrade for Autotune
- 3 = Field Upgrade for Autotune and SetPoint Programming
- 4 = Special
- 5 = Limit Controller

Read Software Version

Description of this command:

Reads the software version information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

167

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Read UDC Error Status

Description of this command:

Reads the current value for the UDC error status information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

255

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Values that are sent:

- 1 = Emergency Manual
- 2 = Failsafe
- 4 = Working Calibration Checksum Error Programming
- 8 = Configuration Checksum Error
- 16 = Parameter Limit Indicator
- 32 = Hardware Failure
- 64 = Restart After Shed
- 128 = Configuration/Calibration Memory Changed

Write Heat Gain or PB

Description of this command:

Writes the heat gain or PB information.

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:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

1

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Heat Rate

Description of this command:

Writes the heat rate information.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

2

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Heat Reset or RPM

Description of this command:

Writes the heat reset or RPM information.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

3

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Manual Reset

Description of this command:

Writes the manual reset.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

13

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Cool Gain/Gain #2 or PB

Description of this command:

Writes the cool gain/gain #2 or PB.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

4

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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Write Cool Rate/Rate #2

Description of this command:

Writes the cool rate/rate #2.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

5

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Cool Reset/Reset #2 or RPM

Description of this command:

Writes the cool reset/reset #2 or RPM.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

6

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Heat Cycle Time

Description of this command:

Writes the heat cycle time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

158

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Cool Cycle Time

Description of this command:

Writes the cool cycle time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

159

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Lockout Data

Description of this command:

Writes the lockout information.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

132

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

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- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = None
- 1 = Calibration
- 2 = +Configuration
- 3 = +View
- 4 = Maximum

Write SetPoint Program/Ramp Selection

Description of this command:

Writes the setPoint program/ramp selection.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

178

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = SP Program, Rate and Ramp Disabled
- 1 = SP Program Enabled
- 2 = SP Ramp Enabled
- 3 = SP Rate Enabled

Write Single SP Ramp Time

Description of this command:

Writes the single SP ramp time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

174

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

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Values that are sent:

Value in PointValue (0) = Value to be sent

Write Final Ramp SP Value

Description of this command:

Writes the final ramp SP value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

26

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Start Segment Number

Description of this command:

Writes the start segment number.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

175

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write End Segment Number

Description of this command:

Writes the end segment number.

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:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

176

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Write Program Recycles

Description of this command:

Writes the program recycles.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

177

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Guaranteed Soak Deviation

Description of this command:

Writes the guaranteed soak deviation.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

87

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

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- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #1 Ramp Time

Description of this command:

Writes the segment #1 ramp time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

57

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #2 Soak SetPoint Value

Description of this command:

Writes the segment #2 soak setPoint value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

58

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #2 Soak Time

Description of this command:

Writes the segment #2 soak time.

Methods used to run this command:

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Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

59

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #3 Ramp Time

Description of this command:

Writes the segment #3 ramp time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

60

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #4 Soak SetPoint Value

Description of this command:

Writes the segment #4 soak setPoint value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

61

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #4 Soak Time

Description of this command:

Writes the segment #4 soak time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

62

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #5 Ramp Time

Description of this command:

Writes the segment #5 ramp time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

63

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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Write Segment #6 Soak SetPoint Value

Description of this command:

Writes the segment #6 soak setPoint value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

64

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #6 Soak Time

Description of this command:

Writes the segment #6 soak time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

65

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #7 Ramp Time

Description of this command:

Writes the segment #7 ramp time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

66

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #8 Soak SetPoint Value

Description of this command:

Writes the segment #8 soak setPoint value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

67

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #8 Soak Time

Description of this command:

Writes the segment #8 soak time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

68

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

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- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #9 Ramp Time

Description of this command:

Writes the segment #9 ramp time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

69

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #10 Soak SetPoint Value

Description of this command:

Writes the segment #10 soak setPoint value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

70

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #10 Soak Time

Description of this command:

Writes the segment #10 soak time.

Methods used to run this command:

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Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

71

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #11 Ramp Time

Description of this command:

Writes the segment #11 ramp time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

72

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #12 Soak SetPoint Value

Description of this command:

Writes the segment #12 soak setPoint value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

73

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Segment #12 Soak Time

Description of this command:

Writes the segment #12 soak time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

74

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Program End State

Description of this command:

Writes the program end state.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

181

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

- 0 = Disable SP Program
- 1 = Hold at Program End

Values that are sent:

Value in PointValue (0) = Value to be sent

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Write Controller Status at Program End

Description of this command:

Writes the controller status at program end.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

180

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Last SetPoint
- 1 = Manual, Failsafe

Write Engineering Units for Ramp Segments

Description of this command:

Writes the engineering units for ramp segments.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

182

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = HRS:MIN
- 1 = Degrees/Minute

Write Present Segment Number

Description of this command:

Writes the present segment number.

Methods used to run this command:

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Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

251

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Time Remaining - Minutes

Description of this command:

Writes the time remaining - minutes.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

252

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Time Remaining - Hours

Description of this command:

Writes the time remaining - hours.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

253

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Cycles Remaining

Description of this command:

Writes the cycles remaining.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

254

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Autotune Selection

Description of this command:

Writes the autotune selection.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

152

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Disabled
- 1 = Auto Step
- 2 = Manual

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- 6 = Calculated Reset Outside Reset Limits
- 7 = Calculated Gain Outside Gain Limits
- 8 = Autotune Aborted on Command
- 9 = Input #1 Error Detected
- 10 = Autotune Illegal During Ramp/SP Program
- 11 = Autotune Aborted when External Switch Detected

Write Algorithm Selection

Description of this command:

Writes the algorithm selection.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

128

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = ON/OFF
- 1 = PID-A
- 2 = PID-B
- 3 = PD-A with Manual Reset
- 4 = Three Position Step

Write Output Type

Description of this command:

Writes the output type.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

160

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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- 0 = Not Allowed
- 1 = Position Proportional
- 2 = Relay Simplex
- 3 = Relay Duplex
- 4 = Current
- 5 = Current Duplex-Full Range
- 6 = Relay/Current Duplex (relay on heat)
- 7 = Relay/Current Duplex (relay on cool)

Write Decimal Point Location

Description of this command:

Writes the decimal point location.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

155

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = XXXX Fixed
- 1 = XXX.X Floating DP with none
- 2 = XX.XX Fixed

Write Temperature Units

Description of this command:

Writes the temperature units.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

129

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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- 0 = Fahrenheit Degrees
- 1 = Celsius Degrees
- 2 = No Units

Write Input #1 Type

Description of this command:

Writes the input #1 type.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

168

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = B T/C
- 1 = E T/C H
- 2 = E T/C L
- 3 = J T/C H
- 4 = J T/C L
- 5 = K T/C H
- 6 = K T/C L
- 7 = N T/C H
- 8 = N T/C L
- 9 = R T/C
- 10 = S T/C
- 11 = T T/C H
- 12 = T T/C L
- 13 = W T/C H
- 14 = W T/C L
- 15 = 100 Plat.
- 16 = 500 Plat.
- 17 = 100-LO
- 18 = 4-20 mA
- 19 = 0-10 mV
- 20 = 10-50 mA
- 21 = 1-5 V
- 22 = 0-10 V

Write Input #1 Transmitter Characterization

Description of this command:

Writes the input #1 transmitter characterization.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

169

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = B T/C
- 1 = E T/C H
- 2 = E T/C L
- 3 = J T/C H
- 4 = J T/C L
- 5 = K T/C H
- 6 = K T/C L
- 7 = N T/C H
- 8 = N T/C L
- 9 = R T/C
- 10 = S T/C
- 11 = T T/C H
- 12 = T T/C L
- 13 = W T/C H
- 14 = W T/C L
- 15 = 100 Plat.
- 16 = 500 Plat.
- 17 = 100-LO
- 18 = Linear
- 19 = Sq Root

Write Input #1 High Range Value

Description of this command:

Writes the input #1 high range value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

29

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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Write Input #1 Low Range Value

Description of this command:

Writes the input #1 low range value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

30

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Input #1 Bias

Description of this command:

Writes the input #1 bias.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

107

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Input #1 Filter Time Constant

Description of this command:

Writes the input #1 filter time constant.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

42

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Input #1 Burnout (Open Circuit Detection)

Description of this command:

Writes the input #1 burnout (Open circuit detection).

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

164

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = None and Failsafe
- 1 = Upscale
- 2 = Downscale

Write Input #1 Power Line Frequency

Description of this command:

Writes the input #1 power line frequency.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

166

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change

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- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = 60 Hz
- 1 = 50 Hz

Write Input #2 Type

Description of this command:

Writes the input #2 type.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

170

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Input #2 Transmitter Characterization

Description of this command:

Writes the input #2 transmitter characterization.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

171

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = B T/C
- 1 = E T/C H

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- 2 = E T/C L
- 3 = J T/C H
- 4 = J T/C L
- 5 = K T/C H
- 6 = K T/C L
- 7 = N T/C H
- 8 = N T/C L
- 9 = R T/C
- 10 = S T/C
- 11 = T T/C H
- 12 = T T/C L
- 13 = W T/C H
- 14 = W T/C L
- 15 = 100 Plat.
- 16 = 500 Plat.
- 17 = 100-LO
- 18 = Linear
- 19 = Sq Root

Write Input #2 High Range Value

Description of this command:

Writes the input #2 high range value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

35

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in Point/Value (0) = Value to be sent

Write Input #2 Low Range Value

Description of this command:

Writes the input #2 low range value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

36

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change

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- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Input #2 Filter Time Constant

Description of this command:

Writes the input #2 filter time constant.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

43

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Number of Tuning Sets

Description of this command:

Writes the number of tuning sets.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

172

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = One Set Only
- 1 = Two Sets (Keyboard or communications)
- 2 = Two Sets (Auto Switch PV)
- 3 = Two Sets (Auto Switch SP)

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Write PV Switchover Value

Description of this command:

Writes the PV switchover value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

56

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Second Input Function

Description of this command:

Writes the second input function.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

131

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Local SetPoint
- 1 = Remote SetPoint

Write Local SetPoint Select

Description of this command:

Writes the local setPoint select.

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:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

173

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Local SetPoint #1 Only
- 1 = 2nd Local SetPoint via Keyboard or Communications

Write Control Ratio

Description of this command:

Writes the control ratio.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

21

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Control Bias

Description of this command:

Writes the control bias.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write LSP Tracking/Power Up Output

Description of this command:

Writes the LSP tracking/power up output.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

138

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Power Up Recall

Description of this command:

Writes the power up recall.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

130

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Manual - LSP
- 1 = Automatic - LSP
- 2 = Automatic - RSP

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Write High SetPoint Limit

Description of this command:

Writes the high setPoint limit.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

7

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Low SetPoint Limit

Description of this command:

Writes the low setpoint limit.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

8

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Control Output Direction

Description of this command:

Writes the control output direction.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

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Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Direct
- 1 = Direct
- 2 = Reverse
- 3 = Reverse

Write High Output Limit

Description of this command:

Writes the high output limit.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

14

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Low Output Limit

Description of this command:

Writes the low output limit.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

15

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Output Dropoff Limit

Description of this command:

Writes the output dropoff limit.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

20

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write DeadBand

Description of this command:

Writes the deadband.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

18

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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Write Output Hysteresis

Description of this command:

Writes the output hysteresis.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

19

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Failsafe Output Value

Description of this command:

Writes the failsafe output value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

40

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Proportional Band Units

Description of this command:

Writes the proportional band units.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

148

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Gain
- 1 = Proportional Band

Write Reset Units

Description of this command:

Writes the reset units.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

149

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Minutes
- 1 = Repeats per Minute

Write ComRS422 Shed Time

Description of this command:

Writes the Com RS422 shed time.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

154

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write ComRS422 Shed Controller Mode and Output Level

Description of this command:

Writes the Com RS422 shed controller mode and output level.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

162

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Last Mode and Last Output
- 1 = Manual Mode, Last Output
- 2 = Manual Mode, Failsafe Output

Write ComRS422 Shed SetPoint Recall

Description of this command:

Writes the Com RS422 shed setpoint recall.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

163

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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- 0 = Use UDC SetPoint as determined by Remote/Local mode, LSP unchanged
- 1 = Use UDC SetPoint as determined by Remote/Local mode, LSHMITalk1.DriverP = Last SetPoint prior to shed

Write Communication Units

Description of this command:

Writes the communication units.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

161

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Percent (%)
- 1 = Engineering Units

Write Alarm #1 SP #1 Value

Description of this command:

Writes the alarm #1 SP #1 value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

9

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Alarm #1 SP #2 Value

Description of this command:

Writes the alarm #1 SP #2 value.

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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:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

10

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Alarm #2 SP #1 Value

Description of this command:

Writes the alarm #2 SP #1 value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

11

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Alarm #2 SP #2 Value

Description of this command:

Writes the alarm #2 SP #2 value.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual

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- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Alarm #1 SP #1 Type

Description of this command:

Writes the alarm #1 SP #1 type.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

140

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = None
- 1 = Input 1
- 2 = Input 2
- 3 = PV
- 4 = Deviation
- 5 = Output
- 6 = Alarm on Shed
- 7 = SP Event ON
- 8 = SP Event OFF

Write Alarm #1 SP #2 Type

Description of this command:

Writes the alarm #1 SP #2 type.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

142

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = None
- 1 = Input 1
- 2 = Input 2
- 3 = PV
- 4 = Deviation
- 5 = Output
- 6 = Alarm on Shed
- 7 = SP Event ON
- 8 = SP Event OFF

Write Alarm #2 SP #1 Type

Description of this command:

Writes the alarm #2 SP #1 type.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

144

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = None
- 1 = Input 1
- 2 = Input 2
- 3 = PV
- 4 = Deviation
- 5 = Output
- 6 = Alarm on Shed
- 7 = SP Event ON
- 8 = SP Event OFF

Write Alarm #2 SP #2 Type

Description of this command:

Writes the alarm #2 SP #2 type.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

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Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = None
- 1 = Input 1
- 2 = Input 2
- 3 = PV
- 4 = Deviation
- 5 = Output
- 6 = Alarm on Shed
- 7 = SP Event ON
- 8 = SP Event OFF

Write Alarm #1 SP #1 State

Description of this command:

Writes the alarm #1 SP #1 state.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

141

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Low Alarm
- 1 = High Alarm

Write Alarm #1 SP #2 State

Description of this command:

Writes the alarm #1 SP #2 state.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

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Meaning of the DriverP1 parameter:

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Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Low Alarm
- 1 = High Alarm

Write Alarm #2 SP #1 State

Description of this command:

Writes the alarm #2 SP #1 state.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

145

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Low Alarm
- 1 = High Alarm

Write Alarm #2 SP #2 State

Description of this command:

Writes the alarm #2 SP #2 state.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

147

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic

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- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

- 0 = Low Alarm
- 1 = High Alarm

Write Alarm Hysteresis

Description of this command:

Writes the alarm hysteresis.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

41

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

Write Computer SetPoint

Description of this command:

Overrides the current value for the computer SetPoint.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Station Address (1-99).

Meaning of the DriverP1 parameter:

125

Meaning of the DriverP2 parameter:

Indicates the UDC State and Mode to be used.

- 0 = Slave, Manual
- 1 = Slave, Toggle between LSP/RSP
- 2 = Slave, Automatic
- 3 = Slave, No Change
- 4 = Monitor, No Change

Meaning of the DriverP3 parameter:

Indicates if the protocol uses busy response checking.

- 0 = Response checking.
- 1 = No response checking.

Values that are sent:

Value in PointValue (0) = Value to be sent

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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
[1433] PROTOCOL (Format): Validation error in device response
[2147] CONFIG (NumValues): Only one value can be read or written
[2150] CONFIG (NumValues): Only value can be requested
[2293] CONFIG (NumValues): Too many values (max=13)
[3029] CONFIG (P0): Invalid device address (1-99)
[3503] CONFIG (P1): Digital inputs are not supported for this device
[3504] CONFIG (P1): Digital outputs are not supported for this device
[3508] CONFIG (P1): Invalid command
[4117] CONFIG (P2): Invalid UDC state and mode to be used
[8014] CONFIG (Remote): Acknowledge error
[8040] CONFIG (Remote): Cannot perform requested operation
[8045] CONFIG (Remote): Checking writes error
[8133] CONFIG (Remote): Error status has changed
[8201] CONFIG (Remote): Is busy (returned on writes)
[8263] CONFIG (Remote): Performing autotune
[8292] CONFIG (Remote): Receive invalid data and abort
[8341] CONFIG (Remote): Unable to perform request at present time
[8347] CONFIG (Remote): Unknown error

Supported devices

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

HONEYWELL UDC3000 controllers
HONEYWELL UDC5000 controllers
HONEYWELL UDC6000 controllers

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