

Industrial communication solutions for Windows

XDIXELL Driver Manual

Dixell Displays and Controllers DixBus Protocol Driver

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XDIXELL technical specifications

General information

XDIXELL driver allows you to connect to the DIXELL Displays and Controllers using the DixBus protocol.
This driver was developed by Main Ingenieros Ltda., Chile.

Command list

Read Slave Identification

Description of this command:

Request general information of Slave device.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

1

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

0 For Device Family + Firmware Release+ Device Identification Codes. 1 Release Code Issue Data.

Read Parameter

Description of this command:

Request Slave device parameter value.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

2

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

Determines the address of parameter to be read.

Read Probe

Description of this command:

Request the value of one of the probes of the slave device.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

3

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

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Meaning of the DriverP3 parameter:

Determines the probe to read, the range of this parameter depends on number of probes available.

Read Alarms

Description of this command:

Request the Alarm Status of the Slave device.

Methods used to run this command:

Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

4

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

0

Read RAM

Description of this command:

Request the value of memory RAM location in the Slave device.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

5

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

Determines the address of memory to be read (0-383).

Read Digital input

Description of this command:

Read the Digital input status of the slave device.

Methods used to run this command:

Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

6

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code.

Meaning of the DriverP3 parameter:

0

Read Digital Output (Relay)

Description of this command:

Read the Digital Output (Relay) of the slave device.

Methods used to run this command:

Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1-8

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Meaning of the DriverP0 parameter:

7

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code.

Meaning of the DriverP3 parameter:

0

Read Analog Output

Description of this command:

Read the Analog Output of the slave device.

Methods used to run this command:

Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

8

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code.

Meaning of the DriverP3 parameter:

0

Read EPROM

Description of this command:

Read the value of memory EEPROM location in the slave device.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

9

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

Determines the Word number to read (0-63).

Write Parameter

Description of this command:

This command modify a parameter value of the slave device.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

66

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

Determines the address of parameter to Write.

Write RAM

Description of this command:

Write the value of memory RAM location in the slave device.

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Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

69

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

Determines the RAM address to Write (0-383).

Write Digital Output

Description of this command:

Write the Digital Output of the slave device.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1 (BYTE)

Meaning of the DriverP0 parameter:

71

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code.

Meaning of the DriverP3 parameter:

0

Write EPROM

Description of this command:

Write the value of memory EEPROM location in the slave device.

Methods used to run this command:

Analog output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

73

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

Determines the Word number to Write (0-63).

Status Reding

Description of this command:

Request the Slave Device Status.

Methods used to run this command:

Analog input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

193

Meaning of the DriverP1 parameter:

Indicates the Device family Code

Meaning of the DriverP2 parameter:

Indicates the Device Identification Code

Meaning of the DriverP3 parameter:

0.

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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
- Checksum error
- Command Code Unknown
- Command not Manageable
- Data Field is not Valid
- Device Busy
- Device Disabled
- Device in editing mode
- Element not available
- Element not Changeable
- Flag Function OFF
- INDEX Field is not Valid
- Internal error:Invalid stage
- No-Acknowledgment Answer
- Operation not possible
- P0:Invalid command
- P0:Invalid command (2/3/4)
- P1:Invalid Address group
- P2:Invalid Address Device
- P3:Invalid Value (0 or 1)
- P3:Invalid Value (0 to 255)
- P3:Invalid Value (0 to 383)
- P3:Invalid Value (0 to 63)
- P3:Invalid Value (0)
- P3:Invalid Value (1 to 255)
- P3:Invalid Value must be (P3=0)
- SIZE:Too many elements (max.:1)
- SIZE:Too many elements (max.:10)
- SIZE:Too many elements (max.:16)
- SIZE:Too many elements (max.:3)
- SIZE:Too many elements (max.:8)

Supported devices

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

DIXELL Controllers and Displays.

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