

Industrial communication solutions for Windows

XZETRON Driver Manual

Zetron M1700 Controller Communications Driver

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www.facebook.com/cpksoftengineering

cpksoftengineering@hotmail.com

phone: 54-911-45788354

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XZETRON technical specifications

General information

XZETRON driver allows you to connect to ZETRON M1700 equipment. Communications start only by the PC interrogating equipment. Thus, spontaneous message sending by equipment must be disabled.

Command list

Poll DTMF Input Buffer

Description of this command:

This command allows you to read the contents of the controller's DTMF input buffer.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

0

Poll Inputs and Outputs Available

Description of this command:

This command allows you to determine the number of inputs and outputs available on a RTU or on the controller.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

1

Values that are returned:

Value in PointValue (0) = Number of digital input in the RTU
Value in PointValue (1) = Number of analog input in the RTU
Value in PointValue (2) = Number of digital output in the RTU
Value in PointValue (3) = Number of analog output in the RTU

Poll Analog Inputs Status

Description of this command:

This command allows you to read the value of the inputs on a RTU.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

2

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Poll Digital Inputs Status

Description of this command:

This command allows you to read the status of the inputs on a RTU.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

3

Poll Analog Outputs Status

Description of this command:

This command allows you to read the value of the outputs on a RTU.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

4

Poll Digital Outputs Status

Description of this command:

This command allows you to read the status of the outputs on a RTU.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

5

Poll Analog Accumulator

Description of this command:

This command allows you to read the current state of the analog accumulators on a RTU.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

6

Meaning of the DriverP2 parameter:

Indicates if the accumulator is reset after reading.

- 0 = No resetting

- 1 = Reset

Meaning of the DriverP3 parameter:

Indicates accumulator number (0-7).

Values that are returned:

Value in PointValue (0) = Accumulated value

Value in PointValue (1) = Number of samples taken

Value in PointValue (2) = Sampling speed (in 1/10 second)

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[cpksoftengineering@](mailto:cpksoftengineering@hotmail.com)

[hotmail.com](mailto:cpksoftengineering@hotmail.com)

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Poll Event Counter

Description of this command:

This command allows you to read the current state of one the event counters on a RTU.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-2

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

7

Meaning of the DriverP2 parameter:

Indicates if the counter is reset after reading.

- 0 = No resetting

- 1 = Reset

Meaning of the DriverP3 parameter:

Indicates the counter number to be read (0-15).

Values that are returned:

Value in PointValue (0) = Number of counted events.

Value in PointValue (1) = Time frame during which events occurred (in 1/10 second).

Poll Analog Alarm Enable Bits

Description of this command:

This command allows you to read the current state of the alarm enable bits on a RTU.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

8

Poll Digital Alarm Enable Bits

Description of this command:

This command allows you to read the current state of the alarm enable bits on a RTU.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

9

Poll Analog Alarm Levels

Description of this command:

This command allows you to read the current settings of the analog levels on an analog input.

(Command supported by M17xx versions 3.00 or higher)

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Indicates the station address (1-255).

Meaning of the DriverP1 parameter:

10

Meaning of the DriverP2 parameter:

Indicates the analog input number (0-7).

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Values that are returned:

Value in PointValue (0) = High-Level (0-255)
Value in PointValue (1) = Low-Level (0-255)
Value in PointValue (2) = High-Reset (0-255)
Value in PointValue (3) = Low-Reset (0-255)

Set Analog Output

Description of this command:

This command allows you to write the analog outputs on a RTU.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (0-255). If the station is 0, it means a broadcasting message which waits for equipment response.

Meaning of the DriverP1 parameter:

11

Meaning of the DriverP2 parameter:

Defines analog output number (0-3).

Set Digital Output

Description of this command:

This command allows you to write the digital outputs on a RTU.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (0-255). If the station is 0, it means a broadcasting message which waits for equipment response.

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

Defines digital output number (0-15).

Enable/Disable Analog Input Alarm

Description of this command:

This command allows you to set the alarm enable bits for the outputs on a RTU.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (0-255). If the station is 0, it means a broadcasting message which waits for equipment response.

Meaning of the DriverP1 parameter:

13

Meaning of the DriverP2 parameter:

Defines analog input number whose alarm is to be enabled or disabled (0-7).

Enable/Disable Digital Input Alarm

Description of this command:

This command allows you to set the alarm enable bits for the digital inputs on a RTU.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

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Meaning of the DriverP0 parameter:

Indicates the station address (0-255). If the station is 0, it means a broadcasting message which waits for equipment response.

Meaning of the DriverP1 parameter:

14

Meaning of the DriverP2 parameter:

Defines the number of digital input whose alarm is to enabled or disabled (0-7).

Set Analog Alarm Levels

Description of this command:

This command allows you to set the alarm level of the analog inputs on an RTU. (Command supported by M17xx, versions 3.00 or higher)

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Indicates the station address (0-255). If the station is 0, it means a broadcasting message which waits for equipment response.

Meaning of the DriverP1 parameter:

15

Meaning of the DriverP2 parameter:

Defines the analog input number whose alarm levels are to be modified.

Values that are sent:

Value in PointValue (0) = High-Level (0-255)

Value in PointValue (1) = Low-Level (0-255)

Value in PointValue (2) = High-Reset (0-255)

Value in PointValue (3) = Low-Reset (0-255)

Global Exception Report Disable

Description of this command:

This command allows you to disable exception report on all RTUs that receive it. Since this is a global command that affects all RTUs at once, the RTUs do not send a handshake response, therefore it is not possible to be certain that all RTUs have received the command. (Command supported by M17xx, versions 3.10 or higher)

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

0

Meaning of the DriverP1 parameter:

16

Global Exception Report Enable

Description of this command:

This command allows you to enable exception report on all RTUs that receive it. Since this is a global command that affects all RTUs at once, the RTUs do not send a handshake response, therefore it is not possible to be certain that all RTUs have received the command. (Command supported by M17xx, versions 3.10 or higher)

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

0

Meaning of the DriverP1 parameter:

17

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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
- [2189] CONFIG (NumValues): Too many values (max=16)
- [2194] CONFIG (NumValues): Too many values (max=2)
- [2206] CONFIG (NumValues): Too many values (max=3)
- [2216] CONFIG (NumValues): Too many values (max=4)
- [2235] CONFIG (NumValues): Too many values (max=8)
- [3022] CONFIG (P0): Invalid device address (1-255)
- [3516] CONFIG (P1): Invalid command (0-10)
- [3525] CONFIG (P1): Invalid command (11-17)
- [4013] CONFIG (P2): Invalid analog input alarm enabled or disabled (0-7)
- [4015] CONFIG (P2): Invalid analog output number (0-3)
- [4059] CONFIG (P2): Invalid digital input alarm enabled or disabled (0-7)
- [4060] CONFIG (P2): Invalid digital output number (0-15)
- [4068] CONFIG (P2): Invalid input number (0-7)
- [4095] CONFIG (P2): Invalid reset mode (0-1)
- [4501] CONFIG (P3): Invalid accumulator number (0-7)
- [4529] CONFIG (P3): Invalid counter number (0-15)
- [8026] CONFIG (Remote): Answer received from another station
- [8200] CONFIG (Remote): Invalid station address

Supported devices

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

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