Industrial communication solutions for Windows

XIZUMFA3 Driver Manual

Izumi FA-3S/FA2-5M Communication Protocol Driver

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XIZUMFA3 technical specifications

General information

XIZUMFA3 driver allows you to connect to the IDEC IZUMI Corp. FA-3S/FA2-5M Series equipment, on a network or point to point connection.

Command list

Read Inputs

Description of this command:
Reads the inputs (X) in byte mode (Analog Input) or bit mode (Digital Input).
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
1
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-637).

Read Outputs

Description of this command:
Reads the outputs (Y) in byte mode (Analog Input) or bit mode (Digital Input).
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
2
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-637).

Read Internal Relays

Description of this command:
Reads the internal relays (M) in byte mode (Analog Input) or bit mode (Digital Input).
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
3
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-2557).

Read Timer Preset Values

Description of this command:
Reads the timer preset values (T) in byte mode.

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Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
4
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

Read Counter Preset Values

Description of this command:
Reads the counter preset values (C) in byte mode.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
5
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

Read Shift Registers

Description of this command:
Reads the shift registers (R) in byte mode (Analog Input) or bit mode (Digital Input).
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-243
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
6
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-243).

Read Data Registers

Description of this command:
Reads the data registers (D) in byte mode (Analog Input).
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
7
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-2989).

Read 10mSec Timer

Description of this command:
Reads the 10mSec timers (H) in byte mode (Analog Input).
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-79

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Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
8
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-79).

Read Timer Current Value

Description of this command:
Reads the timer current values (A) in byte mode (Analog Input).
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
9
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

Read Counter Current Value

Description of this command:
Reads the counter current values (B) in byte mode (Analog Input).
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
10
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

Write Inputs

Description of this command:
Writes the inputs (X) in byte mode (Analog Output) or bit mode (Digital Output).
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
11
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-637).

Write Outputs

Description of this command:
Writes the outputs (Y) in byte mode (Analog Output) or bit mode (Digital Output).
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
12

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Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-637).

Write Internal Relays

Description of this command:
Writes the internal relays (M) in byte mode (Analog Output) or bit mode (Digital Output).
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
13
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-2557).

Write Timer Preset Values

Description of this command:
Writes the timer preset values (T) in byte mode.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
14
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

Write Counter Preset Values

Description of this command:
Writes the counter preset values (C) in byte mode.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
15
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

Write Shift Registers

Description of this command:
Writes the shift registers (R) in byte mode (Analog Output) or bit mode (Digital Output).
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1-243
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
16
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-243).

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Write Data Registers

Description of this command:
Writes the data registers (D) in byte mode (Analog Output).
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
17
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-2989).

Write 10mSec Timer

Description of this command:
Writes the 10mSec timers (H) in byte mode (Analog Output).
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1-79
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
18
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-79).

Write Timer Current Value

Description of this command:
Writes the timer current values (A) in byte mode (Analog Output).
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
19
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

Write Counter Current Value

Description of this command:
Writes the counter current values (B) in byte mode (Analog Output).
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1-250
Meaning of the DriverP0 parameter:
Controller number (1-255). Use controller number 0 If the connection is point to point.
Meaning of the DriverP1 parameter:
20
Meaning of the DriverP2 parameter:
Indicates the memory address of the selected element (0-255).

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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
[1429] PROTOCOL (Format): Unknown response
[1433] PROTOCOL (Format): Validation error in device response
[2201] CONFIG (NumValues): Too many values (max=243)
[2203] CONFIG (NumValues): Too many values (max=250)
[2234] CONFIG (NumValues): Too many values (max=79)
[3008] CONFIG (P0): Invalid device address (0=1:1, 1-255=1:N)
[3508] CONFIG (P1): Invalid command
[4001] CONFIG (P2): Invalid address
[4002] CONFIG (P2): Invalid address (0-243)
[4003] CONFIG (P2): Invalid address (0-255)
[4004] CONFIG (P2): Invalid address (0-2557)
[4005] CONFIG (P2): Invalid address (0-2989)
[4006] CONFIG (P2): Invalid address (0-637)
[4008] CONFIG (P2): Invalid address (0-79)
[8142] CONFIG (Remote): Force buffer full
[8180] CONFIG (Remote): Incorrect address
[8182] CONFIG (Remote): Incorrect operand
[8275] CONFIG (Remote): Program transfer writing-Overtime/frame error
[8276] CONFIG (Remote): Program transfer writing-Read/Write error
[8277] CONFIG (Remote): Program transfer writing-ROM pack
[8278] CONFIG (Remote): Program transfer writing-Total CRC error
[8283] CONFIG (Remote): Protected
[8288] CONFIG (Remote): Receive command error
[8289] CONFIG (Remote): Receive data over
[8294] CONFIG (Remote): Received prohibited
[8316] CONFIG (Remote): Search not found
[8347] CONFIG (Remote): Unknown error

Supported devices

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

IDEC IZUMI PLC FA-3S/CP-12 Series
IDEC IZUMI PLC FA-3S/CP-13 Series
IDEC IZUMI PLC FA2-5M Series

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