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XIZUMIFA Driver Manual

Izumi FA-1/1J/2/2J Peer to Peer Protocol Driver

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XIZUMIFA technical specifications

General information

XIZUMIFA driver allows you to connect to the IDEC IZUMI Corp. FA-1/FA-1J/ FA-2/FA-2J Series equipment, on a point to point basis. (there is another extended version of the driver which allows you to connect to a controllers network called XIZUMINT)

Command list

Read I/O (Input or Output)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

1

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read IR (Internal Relay)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

2

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read SFR (Shift Register)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

3

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read TIM (Timer)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=16.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

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Meaning of the DriverP1 parameter:

4

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read CNT (Counter)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=16.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

5

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read PLC (Program Error Data)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=24.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

6

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read DR (Data Register)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

7

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read Expansion DR

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

8

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read 10msec Timer

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

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Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

9

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read Expansion I/O

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

10

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read Expansion IR

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

11

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write TIM Preset Value

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=16.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write CNT Preset Value

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=16.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

13

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read PLC Status

Methods used to run this command:

Analog Input / Digital Input

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Number of points accepted by this command:

Analog Input=1, Digital Input=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

14

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read PLC Error Data

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

15

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Send PLC Error Cancel

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

16

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Send Communication Cancel

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

17

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read TIM Preset Value

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=16.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

18

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

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Read CNT Preset Value

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=16.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

19

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write I/O (Input or Output)

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

20

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write IR

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

21

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write SFR

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write Expansion I/O

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=1.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

23

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

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Write Expansion IR

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=1.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

24

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write System Work Area

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

25

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write DR

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

27

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write Expansion DR

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

28

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read System Work Area

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=8.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

30

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

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Read System Version

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=24.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

33

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

TIM/CNT Preset Value Clear

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=16.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

34

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read HSC (High Speed Counter) (FA-1 Only)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

35

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write HST Preliminar Output 1 (FA-1 Only)

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

36

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Write HST Preliminar Output 2 (FA-1 Only)

Methods used to run this command:

Analog Output / Digital Output

Number of points accepted by this command:

Analog Output=1, Digital Output=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

37

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

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Read HST Preliminar Output 1 (FA-1 Only)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

38

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

Read HST Preliminar Output 2 (FA-1 Only)

Methods used to run this command:

Analog Input / Digital Input

Number of points accepted by this command:

Analog Input=1, Digital Input=32.

Meaning of the DriverP0 parameter:

Not used (to maintain compatibility with XIZUMINT).

Meaning of the DriverP1 parameter:

39

Meaning of the DriverP2 parameter:

Indicates the memory address of the selected element.

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
- [1419] PROTOCOL (Format): Missing bytes in response
- [1429] PROTOCOL (Format): Unknown response
- [2209] CONFIG (NumValues): Too many values (max=32)
- [3508] CONFIG (P1): Invalid command
- [4001] CONFIG (P2): Invalid address
- [8002] CONFIG (Remote): Abnormal receive command (receive error)
- [8279] CONFIG (Remote): Program transfer/write Overtime/frame error
- [8280] CONFIG (Remote): Program transfer/write Read/write error
- [8281] CONFIG (Remote): Program transfer/write ROM pack
- [8282] CONFIG (Remote): Program transfer/write TOTAL
- [8290] CONFIG (Remote): Receive data over (PLC size error)
- [8291] CONFIG (Remote): Receive inhibit (PLC run error)
- [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 Micro-1 Series
- IDEC IZUMI PLC FA-1 Series
- IDEC IZUMI PLC FA-1J Series
- IDEC IZUMI PLC FA-2 Series
- IDEC IZUMI PLC FA-2J Series
- IDEC IZUMI PLC FA-3S/CP-11 Series
- IDEC IZUMI PLC FA-3S/CP-11T Series

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