

# Industrial communication solutions for Windows

## XIZUMINT Driver Manual

### *Izumi FA-1/1J/2/2J Network Protocol Driver*

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## XIZUMINT technical specifications

### General information

XIZUMINT driver allows you to connect to IDEC IZUMI Corp. FA-1J/FA-2/ FA-2J Series equipment on a network basis. (There is another limited driver version which allows you to connect to a controller point to point called XIZUMIFA, which includes FA-1/FA-1J/FA-2/FA-2J equipment)

### 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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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.

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**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

8

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

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## 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.

**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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.

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**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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

**Number of points accepted by this command:**

Analog Input=1, Digital Input=32.

**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

17

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

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## 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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

18

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

## 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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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=1.

**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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=1.

**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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.

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**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

23

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

## 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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

27

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

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## 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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

30

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

## 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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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.

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**Meaning of the DriverP0 parameter:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

37

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

## 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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**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:**

Controller number (1-255). (If a 0 is entered, there will be no previous controller selection, thus the message will be routed to the last selected controller.)

**Meaning of the DriverP1 parameter:**

39

**Meaning of the DriverP2 parameter:**

Indicates the memory address of the selected element.

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## Error messages

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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  
[1433] PROTOCOL (Format): Validation error in device response  
[2209] CONFIG (NumValues): Too many values (max=32)  
[3022] CONFIG (P0): Invalid device address (1-255)  
[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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