

Industrial communication solutions for Windows

XAIJBUS Driver Manual

Yudian AIJBUS Protocol Driver

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XAIJBUS technical specifications

General information

XAIJBUS driver allows you to connect to any equipment which uses the Yudian AIJ-BUS Protocol. This driver implements Read/Write Register as they are described in the Yudian AIJ-BUS Protocol Manual.

This driver expects that you connect to your device through its serial port. The device should behave as a slave in your RS-232/485 network. This driver supports serial-over-ethernet so you can alternatively use some kind of transparent ethernet/serial converter to reach your device using your LAN.

Required communication settings:

BaudRate: 1200-19200 bps Parity: None DataBits: 8 StopBits: 1 or 2

Command list

Read Register

Description of this command:

Obtains instant values.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-5

Meaning of the DriverP0 parameter:

Station number (0-100).

Meaning of the DriverP1 parameter:

0.

Meaning of the DriverP2 parameter:

Indicates the register address (0-500).

Values that are returned:

Value in PointValue (0) = Register value

Value in PointValue (1) = PV

Value in PointValue (2) = SV

Value in PointValue (3) = MV

Value in PointValue (4) = Alarm Status

Preset Register as Signed 16-bit Integer

Description of this command:

Places a specified value into a register as an signed 16-bit integer value from -32768 to 32767.

The device also returns instant values.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Station number (0-100).

Meaning of the DriverP1 parameter:

0.

Meaning of the DriverP2 parameter:

Indicates the register address (0-500).

Values that are sent:

Value in PointValue (0) = New register value (-32768-32767)

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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
- [2002] CONFIG (DataType): Digital inputs are not supported by this driver
- [2003] CONFIG (DataType): Digital outputs are not supported by this driver
- [2185] CONFIG (NumValues): Too many values (max=5)
- [3014] CONFIG (P0): Invalid device address (0-100)
- [4001] CONFIG (P2): Invalid address
- [8146] CONFIG (Remote): Frame checksum error (FCS)

Supported devices

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

Yudian AIJ-908 Temperature Controller

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