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XAFEISA Driver Manual

Afeisa Industrial Microcomputers Protocol Driver

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XAFEISA technical specifications

General information

XAFEISA driver allows you to connect with Afeisa Industrial Microcomputers.

Command list

Read Voltage Phase-Phase INST

Description of this command:

Reads Voltage Phase-Phase INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

0

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12

Value in PointValue (1) = Voltage Phase-Phase L23

Value in PointValue (2) = Voltage Phase-Phase L31

Value in PointValue (3) = Voltage Three-Phase Network

Read Voltage Phase-Phase MAX

Description of this command:

Reads Voltage Phase-Phase MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

1

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12 Max.

Value in PointValue (1) = Voltage Phase-Phase L23 Max.

Value in PointValue (2) = Voltage Phase-Phase L31 Max.

Read Voltage Phase-Phase MIN

Description of this command:

Reads Voltage Phase-Phase MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

2

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12 Min.

Value in PointValue (1) = Voltage Phase-Phase L23 Min.

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Value in PointValue (2) = Voltage Phase-Phase L31 Min.

Read Voltage INST

Description of this command:

Reads Voltage INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

3

Values that are returned:

Value in PointValue (0) = Voltage L12

Value in PointValue (1) = Voltage L23

Value in PointValue (2) = Voltage L31

Value in PointValue (3) = Voltage Network

Read Voltage MAX

Description of this command:

Reads Voltage MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

4

Values that are returned:

Value in PointValue (0) = Voltage L12 Max.

Value in PointValue (1) = Voltage L23 Max.

Value in PointValue (2) = Voltage L31 Max.

Read Voltage MIN

Description of this command:

Reads Voltage MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

5

Values that are returned:

Value in PointValue (0) = Voltage L12 Min.

Value in PointValue (1) = Voltage L23 Min.

Value in PointValue (2) = Voltage L31 Min.

Read Current INST

Description of this command:

Reads Current INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

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Meaning of the DriverP1 parameter:

6

Values that are returned:

- Value in PointValue (0) = Current L12
- Value in PointValue (1) = Current L23
- Value in PointValue (2) = Current L31
- Value in PointValue (3) = Current Network

Read Current MAX

Description of this command:

Reads Current MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

7

Values that are returned:

- Value in PointValue (0) = Current L12 Max.
- Value in PointValue (1) = Current L23 Max.
- Value in PointValue (2) = Current L31 Max.

Read Current MIN

Description of this command:

Reads Current MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

8

Values that are returned:

- Value in PointValue (0) = Current L12 Min.
- Value in PointValue (1) = Current L23 Min.
- Value in PointValue (2) = Current L31 Min.

Read Power INST

Description of this command:

Reads Power INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

9

Values that are returned:

- Value in PointValue (0) = Power L12
- Value in PointValue (1) = Power L23
- Value in PointValue (2) = Power L31
- Value in PointValue (3) = Power Network

Read Power MAX

Description of this command:

Reads Power MAX.

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Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

10

Values that are returned:

Value in PointValue (0) = Power L12 Max.

Value in PointValue (1) = Power L23 Max.

Value in PointValue (2) = Power L31 Max.

Read Power MIN

Description of this command:

Reads Power MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

11

Values that are returned:

Value in PointValue (0) = Power L12 Min.

Value in PointValue (1) = Power L23 Min.

Value in PointValue (2) = Power L31 Min.

Read Inductive Power INST

Description of this command:

Reads Inductive Power INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

12

Values that are returned:

Value in PointValue (0) = Inductive Power L12

Value in PointValue (1) = Inductive Power L23

Value in PointValue (2) = Inductive Power L31

Value in PointValue (3) = Inductive Power Network

Read Inductive Power MAX

Description of this command:

Reads Inductive Power MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

13

Values that are returned:

Value in PointValue (0) = Inductive Power L12 Max.

Value in PointValue (1) = Inductive Power L23 Max.

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Value in PointValue (2) = Inductive Power L31 Max.

Read Inductive Power MIN

Description of this command:

Reads Inductive Power MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

14

Values that are returned:

Value in PointValue (0) = Inductive Power L12 Min.

Value in PointValue (1) = Inductive Power L23 Min.

Value in PointValue (2) = Inductive Power L31 Min.

Read Capacitive Power INST

Description of this command:

Reads Capacitive Power INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

15

Values that are returned:

Value in PointValue (0) = Capacitive Power L12

Value in PointValue (1) = Capacitive Power L23

Value in PointValue (2) = Capacitive Power L31

Value in PointValue (3) = Capacitive Power Network

Read Capacitive Power MAX

Description of this command:

Reads Capacitive Power MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

16

Values that are returned:

Value in PointValue (0) = Capacitive Power L12 Max.

Value in PointValue (1) = Capacitive Power L23 Max.

Value in PointValue (2) = Capacitive Power L31 Max.

Read Capacitive Power MIN

DESCRIPTION:

Reads Capacitive Power MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

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Meaning of the DriverP1 parameter:

17

Values that are returned:

Value in PointValue (0) = Capacitive Power L12 Min.

Value in PointValue (1) = Capacitive Power L23 Min.

Value in PointValue (2) = Capacitive Power L31 Min.

Read Power Factor INST

Description of this command:

Reads Power Factor INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

18

Values that are returned:

Value in PointValue (0) = Power Factor L12

Value in PointValue (1) = Power Factor L23

Value in PointValue (2) = Power Factor L31

Value in PointValue (3) = Power Factor Network

Read Power Factor MAX

Description of this command:

Reads Power Factor MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

19

Values that are returned:

Value in PointValue (0) = Power Factor L12 Max.

Value in PointValue (1) = Power Factor L23 Max.

Value in PointValue (2) = Power Factor L31 Max.

Read Power Factor MIN

Description of this command:

Reads Power Factor MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

20

Values that are returned:

Value in PointValue (0) = Power Factor L12 Min.

Value in PointValue (1) = Power Factor L23 Min.

Value in PointValue (2) = Power Factor L31 Min.

Read Frequency INST

Description of this command:

Reads Frequency INST.

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Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

21

Read Frequency MAX

Description of this command:

Reads Frequency MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

22

Read Frequency MIN

Description of this command:

Reads Frequency MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

23

Read Apparent Power INST

Description of this command:

Reads Apparent Power INST.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

24

Read Apparent Power MAX

Description of this command:

Reads Apparent Power MAX.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

25

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Read Apparent Power MIN

Description of this command:

Reads Apparent Power MIN.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

26

Read Transformers Ratio

Description of this command:

Reads Transformers Ratio.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

27

Values that are returned:

Value in PointValue (0) = Prim V

Value in PointValue (1) = Sec V

Value in PointValue (2) = Prim A

Read Type of Voltage

Description of this command:

Reads Type of Voltage.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

28

Values that are sent:

- 0 = Phase - Phase

- 1 = Phase - Neutral

Read Total Information

Description of this command:

Reads Total Information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-30

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

29

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12.

Value in PointValue (1) = Voltage Phase-Phase L23.

Value in PointValue (2) = Voltage Phase-Phase L31.

Value in PointValue (3) = Voltage Phase-Phase Network.

Value in PointValue (4) = Voltage Phase-Neutral L1.

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Value in PointValue (5) = Voltage Phase-Neutral L2.
Value in PointValue (6) = Voltage Phase-Neutral L3.
Value in PointValue (7) = Voltage Phase-Neutral Network.
Value in PointValue (8) = Current L1.
Value in PointValue (9) = Current L2.
Value in PointValue (10) = Current L3.
Value in PointValue (11) = Current Network.
Value in PointValue (12) = Active Power L1.
Value in PointValue (13) = Active Power L2.
Value in PointValue (14) = Active Power L3.
Value in PointValue (15) = Active Power Network.
Value in PointValue (16) = Inductive Power L1.
Value in PointValue (17) = Inductive Power L2.
Value in PointValue (18) = Inductive Power L3.
Value in PointValue (19) = Inductive Power Network.
Value in PointValue (20) = Capacitive Power L1.
Value in PointValue (21) = Capacitive Power L2.
Value in PointValue (22) = Capacitive Power L3.
Value in PointValue (23) = Capacitive Power Network.
Value in PointValue (24) = Power Factor L1.
Value in PointValue (25) = Power Factor L2.
Value in PointValue (26) = Power Factor L3.
Value in PointValue (27) = Power Factor Network.
Value in PointValue (28) = Frequency.
Value in PointValue (29) = Apparent Power.

Read Active Energy

Description of this command:

Reads Active Energy.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

30

Read Inductive Energy

Description of this command:

Reads Inductive Energy.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

31

Read Capacitive Energy

Description of this command:

Reads Capacitive Energy.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

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Meaning of the DriverP1 parameter:
32

Read Initial Energies

Description of this command:

Reads Initial Energies.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

33

Values that are returned:

Value in PointValue (0) = Active Energy

Value in PointValue (1) = Inductive Energy

Value in PointValue (2) = Capacitive Energy

Write Transformers Ratio

Description of this command:

Writes Transformers Ratio.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

34

Values that are sent:

Value in PointValue (0) = Prim V

Value in PointValue (1) = Sec V

Value in PointValue (2) = Prim A

Write Type of Voltage

Description of this command:

Writes Type of Voltage.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

35

Values that are sent:

- 0 = Phase - Phase

- 1 = Phase - Neutral

Write Initial Energies

Description of this command:

Writes Initial Energies.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

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Meaning of the DriverP1 parameter:

36

Values that are sent:

Value in PointValue (0) = Active Energy

Value in PointValue (1) = Inductive Energy

Value in PointValue (2) = Capacitive Energy

Read Input and Relay Status in MIDA 20D

Description of this command:

Reads Input and Relay Status in MIDA 20D.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-99

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

37

Meaning of the DriverP2 parameter:

Defines the first register to be read.

- 1 .. 18 = Inputs

- 100 .. 117 = External Relays

Write Input and Relay Status in MIDA 20D

Description of this command:

Writes Input and Relay Status in MIDA 20D.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

38

Meaning of the DriverP2 parameter:

Defines the register to be written (0-9999).

Read A/D Channels in MIDA 20D

Description of this command:

Reads A/D Channels in MIDA 20D.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

39

Values that are sent:

Value in PointValue (0) = DC1 Channel.

Value in PointValue (1) = DC2 Channel.

Read Scale Factors of A/D Converter in MIDA 20D

Description of this command:

Reads Scale Factors of A/D Converter in MIDA 20D.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

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Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

40

Values that are sent:

Value in PointValue (0) = Channel Factor 1.

Value in PointValue (1) = Channel Factor 2.

Write Scale Factors of A/D Converter in MIDA 20D

Description of this command:

Writes Scale Factors of A/D Converter in MIDA 20D.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

41

Values that are sent:

Value in PointValue (0) = Channel Factor 1.

Value in PointValue (1) = Channel Factor 2.

Write Leds Activation in MIDA 20D

Description of this command:

Writes Leds Activation in MIDA 20D.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

42

Values that are sent:

Value in PointValue (0) = Test (0 = Desactivate / 1 = Activate).

Value in PointValue (1) = Led 1 (Comm).

Value in PointValue (2) = Led 2 (CPU).

Read Integer Type Registers in MIDA 20D

Description of this command:

Reads Integer Type Registers in MIDA 20D.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-99

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

43

Meaning of the DriverP2 parameter:

First register to be read (0-499).

Write Integer Type Registers in MIDA 20D

Description of this command:

Writes Integer Type Registers in MIDA 20D.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

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Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

44

Meaning of the DriverP2 parameter:

First register to be written (0-499).

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
[2109] CONFIG (NumValues): Invalid number of channels (must be 3)
[2113] CONFIG (NumValues): Invalid number of values (max=4)
[2147] CONFIG (NumValues): Only one value can be read or written
[2193] CONFIG (NumValues): Too many values (max=19)
[2194] CONFIG (NumValues): Too many values (max=2)
[2206] CONFIG (NumValues): Too many values (max=3)
[2207] CONFIG (NumValues): Too many values (max=30)
[2216] CONFIG (NumValues): Too many values (max=4)
[2243] CONFIG (NumValues): Too many values (max=99)
[3018] CONFIG (P0): Invalid device address (0-99)
[3508] CONFIG (P1): Invalid command
[4063] CONFIG (P2): Invalid first register (0-499)
[4064] CONFIG (P2): Invalid first register (0-999)
[4065] CONFIG (P2): Invalid first register (0-9999)
[8130] CONFIG (Remote): Error Response

Supported devices

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

AFEISA MIDA 20D Industrial Microcomputer

CPKSoft Engineering

Industrial communication
drivers.

www.cpksoft.com

[www.facebook.com/
cpksoftengineering](https://www.facebook.com/cpksoftengineering)

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

phone: 54-911-45788354

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