

Industrial communication solutions for Windows

XALGODUE Driver Manual

Algodue UPM Series Universal Power Meters Driver

Contents

XALGODUE technical specifications	2
General information.....	2
Command list	2
Read Measured Values	2
Read Maximum Values	3
Error messages	3
Supported devices.....	3

CPKSoft Engineering

Industrial communication drivers.

www.cpksoft.com

www.facebook.com/cpksoftengineering

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

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

phone: 54-911-45788354

1990-2012

Industrial communication solutions for Windows

XALGODUE technical specifications

General information

XALGODUE driver allows you to connect with UPM320 Universal Power Meter from Algodue Elettronica. Communication with the UPM320 takes place by means of an asynchronous serial transmission, half duplex RS-485. The RS485 standard enables a multi-drop connection, which is the connection of several instruments to a host with only one cable. Use isolated converters to connect the instruments to the PC.

Command list

Read Measured Values

Description of this command:

This command reads all the available measured values.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-32

Meaning of the DriverP0 parameter:

Instrument Identification (0-255)

Meaning of the DriverP1 parameter:

62

Values that are returned:

Value in PointValue (0) = THREE-PHASE SYSTEM VOLTAGE (rms)
Value in PointValue (1) = PHASE L1 VOLTAGE (rms)
Value in PointValue (2) = PHASE L2 VOLTAGE (rms)
Value in PointValue (3) = PHASE L3 VOLTAGE (rms)
Value in PointValue (4) = LINE L1-L2 VOLTAGE (rms)
Value in PointValue (5) = LINE L2-L3 VOLTAGE (rms)
Value in PointValue (6) = LINE L3-L1 VOLTAGE (rms)
Value in PointValue (7) = THREE-PHASE SYSTEM CURRENT (rms)
Value in PointValue (8) = LINE L1 CURRENT (rms)
Value in PointValue (9) = LINE L2 CURRENT (rms)
Value in PointValue (10) = LINE L3 CURRENT (rms)
Value in PointValue (11) = THREE-PHASE SYSTEM POWER FACTOR
Value in PointValue (12) = PHASE L1 POWER FACTOR
Value in PointValue (13) = PHASE L2 POWER FACTOR
Value in PointValue (14) = PHASE L3 POWER FACTOR
Value in PointValue (15) = THREE-PHASE SYSTEM APPARENT POWER
Value in PointValue (16) = PHASE L1 APPARENT POWER
Value in PointValue (17) = PHASE L2 APPARENT POWER
Value in PointValue (18) = PHASE L3 APPARENT POWER
Value in PointValue (19) = THREE-PHASE SYSTEM ACTIVE POWER
Value in PointValue (20) = PHASE L1 ACTIVE POWER
Value in PointValue (21) = PHASE L2 ACTIVE POWER
Value in PointValue (22) = PHASE L3 ACTIVE POWER
Value in PointValue (23) = THREE-PHASE SYSTEM REACTIVE POWER
Value in PointValue (24) = PHASE L1 REACTIVE POWER
Value in PointValue (25) = PHASE L2 REACTIVE POWER
Value in PointValue (26) = PHASE L3 REACTIVE POWER
Value in PointValue (27) = 3-PHASE SYSTEM ACTIVE ENERGY
Value in PointValue (28) = 3-PHASE SYSTEM REACTIVE ENERGY
Value in PointValue (39) = FREQUENCY
Value in PointValue (30) = AVERAGE POWER
Value in PointValue (31) = AVERAGE CURRENT

CPKSoft Engineering

Industrial communication drivers.

www.cpksoft.com

www.facebook.com/cpksoftengineering

cpksoftengineering@hotmail.com

hotmail.com

phone: 54-911-45788354

1990-2012

Industrial communication solutions for Windows

Read Maximum Values

Description of this command:

This command reads all the maximum values.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-5

Meaning of the DriverP0 parameter:

Instrument Identification (0-255)

Meaning of the DriverP1 parameter:

97

Values that are returned:

Value in PointValue (0) = MAXIMUM I1

Value in PointValue (1) = MAXIMUM I2

Value in PointValue (2) = MAXIMUM I3

Value in PointValue (3) = MAXIMUM Pav

Value in PointValue (4) = MAXIMUM lav

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
[2001] CONFIG (DataType): Analog outputs are not supported by this driver
[2002] CONFIG (DataType): Digital inputs are not supported by this driver
[2003] CONFIG (DataType): Digital outputs are not supported by this driver
[2258] CONFIG (NumValues): Too many values requested (max=32)
[2262] CONFIG (NumValues): Too many values requested (max=5)
[3014] CONFIG (P0): Invalid device address (0-255)
[3508] CONFIG (P1): Invalid command

Supported devices

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

ALGODUE UPM300 Universal Power Meter

ALGODUE UPM320 Universal Power Meter

CPKSoft Engineering

Industrial communication
drivers.

www.cpksoft.com

www.facebook.com/

cpksoftengineering

cpksoftengineering@

hotmail.com

phone: 54-911-45788354

1990-2012