

# XDLXVIP Driver Manual

Algodue Elettronica DLX Controller for VIP D3 Driver



## CPKSoft Engineering Process Monitoring and Industrial Automation Software

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# 1. Introduction

CPKSoft Engineering assumes no responsibility for any errors that may appear in this document. If you have any suggestions for improvements or amendments or have found errors in this publication, please notify us.

This driver is included with all unlimited licenses of TAS-HMITalk. It is not sold separately. It requires the TAS-HMITalk ActiveX to work, therefore it cannot be used as a stand-alone driver.

If you use this driver in your applications, you need to include the `xdlxvip.tlk` in the set of files that you distribute. This file must be located in the same folder where the `hmitalk.ocx` file is registered in order to be found by the activex when the applications are executed.

The source-code for the `xdlxvip.tlk` driver is available in plain-C language for additional USD 299 if you own a license of TAS-HMITalk 8.04 or higher.

Refer to the following link to visit the `xdlxvip` driver page at CPKSoft Engineering website: <http://www.cpksoft.com/tabid/55/ProductID/30/PageIndex/1/Default.aspx>.

Visit this link if you want to see a complete list of drivers that are currently available for TAS-HMITak: <http://www.cpksoft.com/Drivers/tabid/55/Default.aspx>.

Also, refer to this link if you are interested in purchasing a license of the most recent version of TAS-HMITalk: <http://www.cpksoft.com/Products/tabid/54/Default.aspx>.

We welcome your comments about this document. You can reach us by e-mail at [contact @ cpksoft.com](mailto:contact@cpksoft.com).

## 2. Driver details

### 2.1. Driver overview

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XDLXVIP driver allows you to connect with ElControl VIP D3 devices through the DLX Communication Controller. Default communication settings for DLX controller are 9600,N,8,1.

### 2.2. Supported devices

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This driver can communicate with these devices, but is not necessarily limited to this list:  
ELCONTROL VIP D3 Meters using DLX controller

## 3. Command list

### 3.1. Read Measured Values

**Description of this command:**

This command reads the voltage, current, active power, cos, apparent power, reactive power and frequency of the three phase system measured by the VIP connected to the specified position of the addressed DLX node.

**Type of data handled by this command:**

Analog Input

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

1-7

**Meaning of the DriverP0 parameter:**

DLX Logic Number (1-255). If set to 0, indicates that the DLX node will be addressed by using the serial number indicated in the DriverP6 parameter.

**Meaning of the DriverP1 parameter:**

Number of the VIP connected to the DLX Node. Valid numbers are 1 to 4 only.

**Meaning of the DriverP2 parameter:**

1

**Meaning of the DriverP6 parameter:**

A 9-char serial number to be used to address the DLX node when DriverP0 is set to 0. The serial number can be found in the DLX data plate. Example: DLX430003

**Values that are returned:**

Value in PointValue (0) = THREE-PHASE SYSTEM VOLTAGE V[V]

Value in PointValue (1) = THREE-PHASE SYSTEM CURRENT I[A]

Value in PointValue (2) = THREE-PHASE SYSTEM ACTIVE POWER P[W]

Value in PointValue (3) = THREE-PHASE SYSTEM POWER FACTOR Cos%

Value in PointValue (4) = THREE-PHASE SYSTEM APPARENT POWER S[VA]

Value in PointValue (5) = THREE-PHASE SYSTEM REACTIVE POWER Q[VAr]

Value in PointValue (6) = FREQUENCY f[Hz]

## 4. Appendices

### 4.1. Error messages

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The following list shows all the possible error messages that can be returned by the protocol driver during a failed communication in the 'DriverStatus' property.

This list does not include some error messages that can be returned by the activex component while attempting to establish a connection.

- [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
- [2266] CONFIG (NumValues): Too many values requested (max=7)
- [3034] CONFIG (P0): Invalid DLX logic number (0-255)
- [3581] CONFIG (P1): Invalid VIP number (1-4)
- [4038] CONFIG (P2): Invalid command (1 only)
- [6029] CONFIG (P6): Must be a 9-char serial number

### 4.2. Keywords list

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The following list shows a set of words directly related to this driver.

"Algodue, controller, DLX, ELCONTROL, Elettronica, for, Meters, VIP".