

# Soluciones de comunicación industrial para Windows

## Manual del Driver XMODEM

*Hayes Compatible Modem Dialer Driver*

### Contenido

Especificaciones técnicas del driver XMODEM .....	2
Información general.....	2
Listado de comandos .....	2
Dial Phone Number .....	2
Hang Up.....	2
Send Generic Text Telegram.....	2
Mensajes de error .....	3
Equipos soportados.....	4

CPKSoft Ingeniería

Drivers para comunicación industrial.

[www.cpksoft.com.ar](http://www.cpksoft.com.ar)

[www.facebook.com/cpksoftingenieria](http://www.facebook.com/cpksoftingenieria)

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

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

tel: 54-11-1545788354

1990-2013

# Soluciones de comunicación industrial para Windows

## Especificaciones técnicas del driver XMODEM

### Información general

The XMODEM driver allows you establish a communication through a telephone line by using a modem connected to a serial COM port in your PC.  
The driver can dial a phone number and then release the COM port so it can be used by another driver call that needs to communicate with a remote device.  
The driver provides also a command to hang-up the modem after the phone line is no longer used.

#### **Nota importante:**

When using this driver with a real modem, you should set the RTS signal during the communication. This can be done by setting the RTSEnable argument when calling the read and write methods.  
A minimum of 5000 ms in the CommTimeout property is also recommended.

### Listado de comandos

#### Dial Phone Number

##### **Descripción del comando:**

Dials a specified phone number using tones or pulses.

##### **Métodos usados para ejecutar este comando:**

Digital Output (WriteBooleanValues)

##### **Número de puntos permitidos para este comando:**

1

##### **Significado del parámetro P0:**

0

##### **Significado del parámetro P4:**

0 for tones, 1 for pulses.

##### **Significado del parámetro P5:**

Dialing timeout in seconds (60 seconds is assumed if left empty).

##### **Significado del parámetro P6:**

Phone number (can include ',' to indicate extra inter-digit delays).

##### **Significado del parámetro P7:**

Optional initialization string to be sent before the dialing command. (AT[initializationstring]DT phonenumber) If left empty, defaults to 'V1', thus sending the following command: 'ATV1DT phonenumber'.

#### Hang Up

##### **Descripción del comando:**

Hang ups an open communication.

##### **Métodos usados para ejecutar este comando:**

Digital Output (WriteBooleanValues)

##### **Número de puntos permitidos para este comando:**

1

##### **Significado del parámetro P0:**

1

#### Send Generic Text Telegram

##### **Descripción del comando:**

Sends a generic text telegram. Special non-ASCII characters can be added with the '|' (=or) symbol, followed by two hexadecimal uppercase digits indicating the char hex code (Example: 'AT|0D|0A').

##### **Métodos usados para ejecutar este comando:**

Analog Input (ReadNumericValues)

##### **Número de puntos permitidos para este comando:**

1

# Soluciones de comunicación industrial para Windows

## Significado del parámetro P0:

0

## Significado del parámetro P3:

Expected reply telegram size (if DriverP8 is not empty, this parameter is ignored).

- If reply size is set to 0, the driver will not wait for a reply and it will return as soon as the TX telegram has been transmitted.
- If reply size is higher than 0, the driver will listen until this number of characters is received after transmission (only if DriverP8 is empty).

## Significado del parámetro P4:

Number of times that the sequence in DriverP8 must be received before returning (default = 1). Use a value higher than 1 when you expect to receive multiple lines, for example.

## Significado del parámetro P5:

Number of additional chars to be received after the termination condition was reached (default = 0). Use this parameter to continue listening for some more bytes after the indicated footer was received.

## Significado del parámetro P6:

Telegram to be sent:

- If not empty, the given telegram is transmitted.
- If empty, the driver enters in listening mode until it timeouts.

## Significado del parámetro P7:

Expected reply starting condition (up to 3 chars header):

- If empty, no specific header in reply is expected. The driver will start collecting any incoming characters received until the termination condition is reached.
- If not empty, the driver will consider valid only telegrams that start with the given header.

## Significado del parámetro P8:

Expected reply termination condition (up to 3 chars footer):

- If empty, no specific footer in reply is expected. The driver will return any incoming characters received until DriverP1 bytes are received.
- If not empty, the driver immediately returns as soon as the given footer is received (plus any additional characters indicated in DriverP5).

## Valores que son devueltos:

Valor del punto (0) = Reply length in bytes

Texto del punto (0) = Reply telegram

## Mensajes de error

La siguiente lista muestra los mensajes de error que pueden ser retornados por el driver en la propiedad 'Status' durante una comunicación fallida.

[1005] DRIVER (Internal): Invalid driver stage  
[1010] DRIVER (Internal): Error calculating elapsed milliseconds  
[1201] DRIVER (System): Error closing %s  
[1202] DRIVER (System): Error creating %s  
[1208] DRIVER (System): Error seeking end of %s  
[1210] DRIVER (System): Error writing to %s  
[1214] DRIVER (System): Error deleting %s  
[1300] PROTOCOL (Timeout): No answer  
[1332] PROTOCOL (Remote): Invalid date received  
[1333] PROTOCOL (Remote): Couldn't decode received date  
[1334] PROTOCOL (Remote): Invalid time received  
[1338] PROTOCOL (Remote): Couldn't decode reference date  
[2001] CONFIG (DataType): Analog outputs are not supported by this driver  
[2002] CONFIG (DataType): Digital inputs are not supported by this driver  
[3001] CONFIG (P0): Invalid command  
[3002] CONFIG (P0): Invalid command (0 or 1 only)  
[5007] CONFIG (P4): Invalid dialing mode (0 or 1)  
[5503] CONFIG (P5): Invalid dialing timeout (1-180)  
[6004] CONFIG (P6): Dial number not specified

CPKSoft Ingeniería  
Drivers para comunicación  
industrial.

www.cpksoft.com.ar  
www.facebook.com/  
cpksoftingenieria  
cpksoftingenieria@  
hotmail.com  
tel: 54-11-1545788354

1990-2013

# Soluciones de comunicación industrial para Windows

## Equipos soportados

---

Este driver se puede comunicar con estos equipos, aunque no necesariamente está limitado a los que aparecen en esta lista:

HAYES Compatible Modem

CPKSoft Ingeniería

Drivers para comunicación industrial.

[www.cpksoft.com.ar](http://www.cpksoft.com.ar)

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

cpksoftingenieria

cpksoftingenieria@

hotmail.com

tel: 54-11-1545788354

1990-2013