

# Soluciones de comunicación industrial para Windows

## Manual del Driver XTEST

### *Serial Line Testing Master Driver*

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## Especificaciones técnicas del driver XTEST

### Información general

The XTEST driver allows you to test communication ports and communication links before attaching intelligent physical devices such as PLCs (Programmable Logic Controllers), RTUs, (Remote Terminal Units), Stand-Alone Controllers, Acquisition Modules, RS-232 Networks, etc. XTEST can send a message to the communication port and then wait to read it back as a valid answer, provided Tx and Rx are BRIDGED in some point of the communication link. The answer contains random values that are received in different channels, simulating analog values coming from the field equipment.

#### LOOP TEST:

The most important feature of the XTEST driver is its ability to determine how your communications link is working, independent of the physical device being used. Usually, it is difficult to initiate communications with a given device due to several factors.

#### *Device-Independent Factors:*

##### *PC Hardware:*

- Is your board working OK?
- Does it conflict with other boards? External Link:
- Is your cable OK? Is it damaged?
- Is your RS-232/422 converter working OK?
- Is your RS-232/485 converter working OK?
- Is your modem link working OK?
- Is your radio link working OK?
- Is your satellite link working OK?

#### *Device-Dependent Factors:*

##### *Required Hardware:*

- Are you using the right board according to your device requirements (RS-232/422/485/etc.)?
- Does your external device have the ability to communicate with a PC?
- Are you connecting the cable to the right port in your device? (Maybe you are using a network port or the programming port.)
- Have you checked if your device has a switch to enable communications?
- Does your device have a switch to select different communication protocols?
- Are you using the correct driver to communicate with your device? Port Settings:
- Are you matching your device's required port settings:
- BaudRate?
- Parity?
- DataBits?
- StopBits?
- Timeout?
- Other COM flags? Required Cable:
- Did you adhere to the cable specifications given in your device's manual?

The important contribution XTEST makes to configurators is that it allows them to check every aspect of the communication that is device-independent. By connecting RX and TX on the device side, you can assure that you are not having problems with your PC hardware, nor with your external link.

#### RS-232 PORT:

Standard in your PC, may have plugs DB-25 or DB-9.

PIN DB-25 DB-9

1		
2	TX	RX
3	RX	TX
4	RTS	DTR
5	CTS	SGN
6	DSR	DSR
7	SGN	RTS
8	RSD	CTS
9		
20	DTR	

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## Listado de comandos

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### Generate Random Values

**Descripción del comando:**

Sends a message loaded with random values and waits to receive the same message as an answer. When the message is received, the driver parses and returns the embedded values as if they were replied by a real device. Tx and Rx must be shorted somewhere in the communication link for this command to behave properly.

**Métodos usados para ejecutar este comando:**

Analog Input

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

1-250

**Significado del parámetro P0:**

0

**Significado del parámetro P1:**

0

**Significado del parámetro P2:**

0

## Mensajes de error

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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  
[1300] PROTOCOL (Timeout): No answer  
[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  
[3036] CONFIG (P0): Invalid header noise length (max=250)  
[3554] CONFIG (P1): Invalid footer noise length (max=250)

## Equipos soportados

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

RS-232 Port  
RS-422 Port  
RS-485 Port  
TCP/IP Address and Port

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