

# PCI-485 Interface

## for *FlexMax* Drives



## Instruction Guide

### 1. General

The PCI-485 interface allows the connection of a *FlexMax* PX series drive directly to a PC through a RS485 serial line.

### 2. Point-to-Point Connection

This type of connection is performed exclusively for the use of the PC configuration software for *FlexMax* PX series drives. For this reason, the connection must be temporary, desultory, and it must not be applied in order to carry out complex systems. The maximum length between PC and regulation boards is 2m. An improper use of this device can be detrimental to the quality of communication and to the function of the drive.

The interface converts the RS232 protocol of the full duplex serial line of the PC into the RS485 protocol of the half duplex serial line of the drive. The management of the RS485 device is completely automatic, and it does not require any software control.

The interface board is supplied with +5V ( $\pm 10\%$ ) referred to GNDD from the regulation board through the RS485 line. Jumpers S5 and S6 on the *FlexMax* regulation board should be ON (see Section 4.4 of the *FlexMax* manual).

The PCI-485 Interface has two dip-switches for the insertion or disconnection of the terminating resistors. For the point-to-point connection **these switches must be set in the ON position.**

It is necessary to connect the PCI-485 interface to the drive through a standard wire. To do this, connect directly pin to pin the two 9-pin connectors – XS on the drive, and XS1 on the interface.

### 3. Power Required/ Cable Length

- Power required:  
PCI-485 \_\_\_\_\_ 20 mA max  
Drive (RS485) \_\_\_\_\_ 60 mA max
- Cable length:  
The maximum length by the RS485 serial protocol is 600 m. The interface must be connected directly to the PC serial output.