Introduction

All ADVANCED Motion Controls® DigiFlex® Performance™ Servo drives come with an RS232 connection. DigiFlex Performance drives with CAN communication include a secondary RS232 communication channel. ADVANCED Motion Controls’ DriveWare software can connect to the drive using this channel in addition to the primary communication channel.

Locating The Secondary RS232 Channel (CAN Drive)

The RS232 connector is located on the top edge of a CAN drive in between the CAN bus termination jumper block and the hardware address and baud rate switches.

Note: The switch settings have no effect on RS232 communication

RS232 Connector CAN Drive

The mating connector (Phoenix p/n 1881338) ships with every DigiFlex drive.

Interfacing to the RS232 Port

To connect the RS232 port to a PC requires a cable. Most PCs (or USB to RS232 converters) have a 9pin D-sub serial port connection.

9-pin D-Sub Serial Connection

Establishing a connection with DriveWare

Once the necessary connections have been made, make sure the drive’s logic power is applied. The steps to establish a connection using drive ware are:

1. Launch DriveWare.
2. From the initial dialog, select ‘Connect’.
3. Select RS232 under Communication Interface. The default parameters from the factory are: Drive Address 63 and baudrate 115200 (some older drives may have a baudrate of 9600).

Note: During initial drive connection and commissioning, Read/Write should be selected for Interface Access Control. Read Only is used to put the software in a state that allows monitoring through the configuration software while writing through another interface (CAN).
4. Select the Serial Port on the PC that the DigiFlex drive is connected to.

5. Press ‘Connect’.

6. The Status Bar along the bottom of the DriveWare interface should read ‘Connected’ and show the connection parameters when hovered over with the mouse.