NXN066880
Issue B Original

Instruction Manual

XDS35i Speedset Program

Description	Item Number	Description	Item Number
XDS35i SpeedSet Program	NXN066000		

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For return of equipment, complete the HS Forms at the end of this manual.

Illustrations

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1 INTRODUCTION

This document covers the installation and use of the Edwards XDS35i Speedset program.

The XDS35i Speedset Program package contains the following items:

Table 1 - Checklist of items

Qty	Description	Check (✓)
1	XDS35i Speedset Program - Setup CD (NXN066610)	❑
1	XDS35i PC serial interface cable (NRC314000)	❑

1.1 Outline description

The XDS35i Program is a PC based application that allows the user to monitor and change the speed of an XDS35i pump. An EEPROM write feature allows the user to save a selected speed to permanent memory thus becoming the default set speed for the connected pump.

The program must be installed on an IBM-compatible PC that utilises Windows 2000 or later.

The minimum recommended PC Specification is as follows:

- CPU 500 MHz P3 or better
- RAM 256 Mbyte minimum
- CDROM drive
- Operating System Windows 2000/XP
- 1 serial port

Note: *For PC's that are not fitted with a serial port, a proprietary USB to serial port adaptor should be used. The adaptor is not part of the Edwards scope of supply and must be purchased separately.*

The XDS35i application communicates with an Edwards XDS35i pump via an RS232 serial cable, part number NRC314000. A diagram of the cable is shown in Figure 1.

2 INSTALLATION

2.1 General notes on installation

The XDS35i Speedset Program is a Microsoft dotNET™ application and requires the installation of a supporting dotNET framework on your PC. The framework is supplementary to the installed Windows operating system and will not affect other applications that are already installed. The dotNET framework is included on the XDS35i Speedset setup CD and is automatically installed during the setup procedure. The setup process may request that the PC be rebooted during the setup procedure. If this occurs, follow the on-screen instructions to complete the installation.

2.2 Installation process

Ensure host PC is running and all applications are closed down.

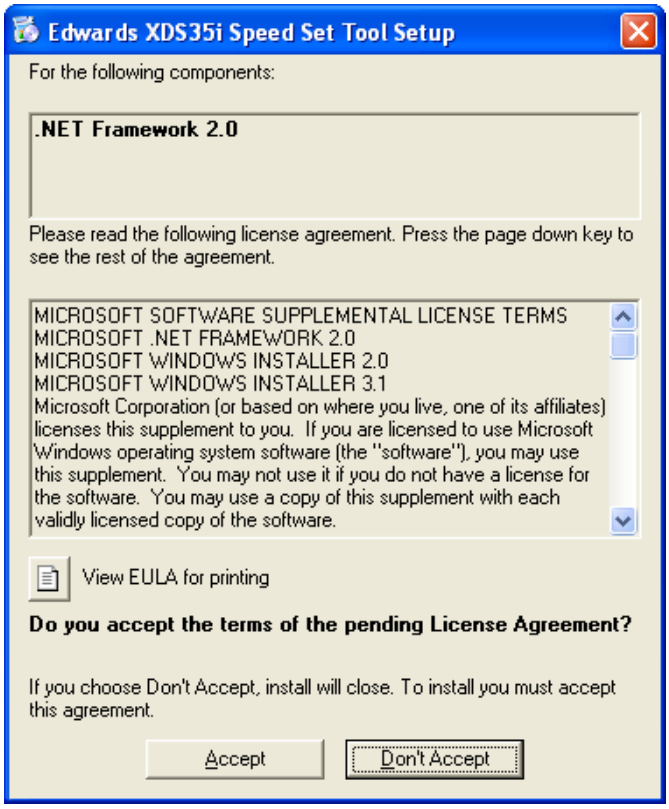
Load the XDS35i Setup CD into a CDROM drive on the host PC. Locate and run the program Setup.EXE.

The following screen should appear:

Please read legal agreement and select 'Next' to display the following screen.

Note: *For pc's that do not have the Microsoft dotNET™ framework (Version 2) installed, the setup program will install the framework before installing the XDS35i Speedset application.*

The following screen is displayed at the start of the framework setup sequence. The framework can take up to 20 minutes to install.

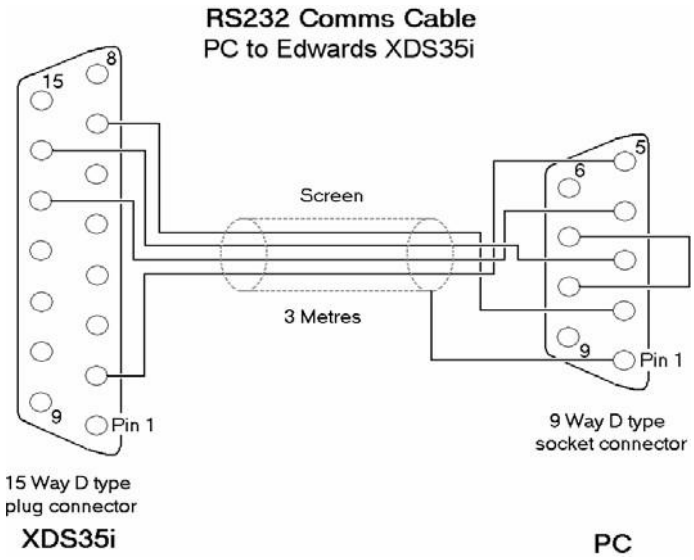


3 USING YOUR PRODUCT

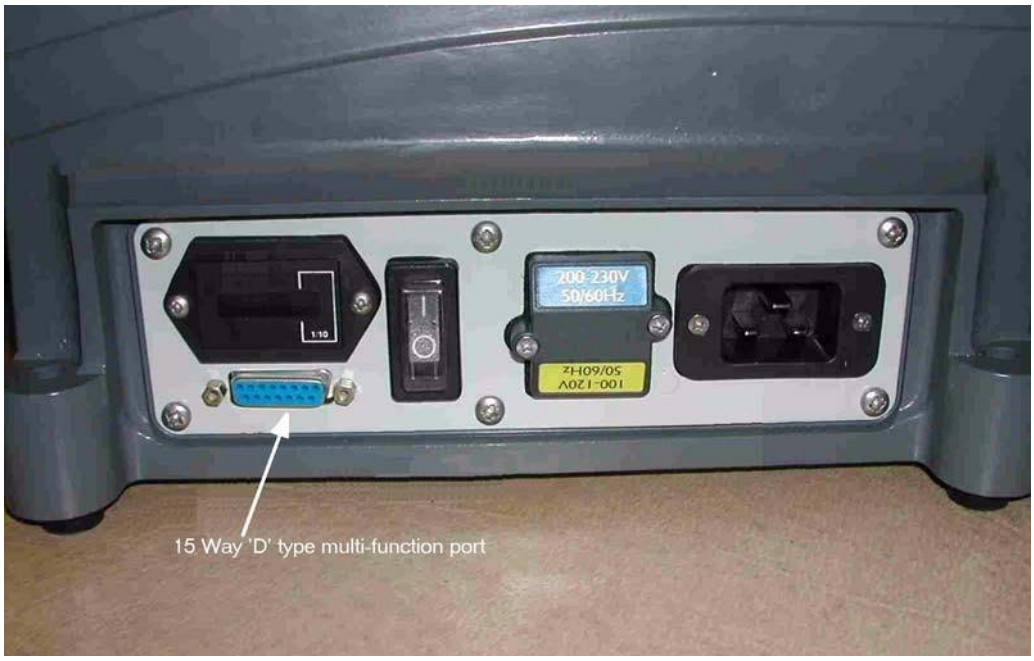
3.1 Connecting to your pump

Connect your PC and XDS35i Pump using the supplied cable (part number NRC314000). Refer to Figure 1.

Figure 1 - Diagram showing cable configuration



The serial connection to the pump is via the 15 way 'D' type multi - function port. The location of the port on the pump is shown below:



The connection to the PC is via a standard RS232 9 way port. For PC's that are not fitted with a serial port (most recent laptop and desktop PC's), a USB to Serial converter can be used. These are readily available from a variety of manufacturers and will be supplied with a driver CD. The driver must be installed before the converter can be recognised by the host PC and allocated a communication port.

Whether using a standard communications port or a USB-serial converter, the allocated port number can be checked using the Device Manager under System Settings in the control panel.

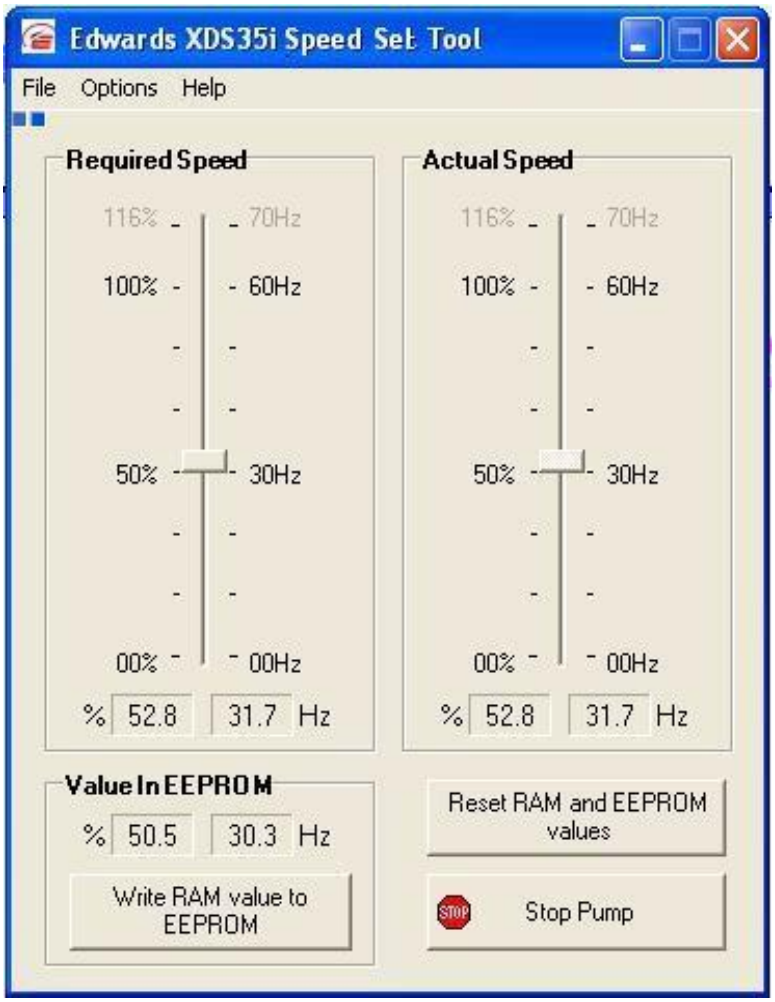
Note: *Please ensure that the RS232 communications cable is routed away from any power cables or sources of radio frequency / electromagnetic interference.*

3.2 Run the XDS35i SpeedSet Program

To run the application:

- Click on Start, select 'All Programs'. From programs list choose 'Edwards Applications' and the 'XDS35i Speedset'.

The following window should appear:



XDS35i - User Interface example view

3.3 User facilities

Please note that functionality of certain features listed in this section is dependant on the position of the pump local/ remote switch. The location of the switch is shown below:

3.3.1 Menu

- **File** - click on 'File' and 'Exit' to close application
- **Options** - click on 'Options' to select required communication port (if more than 1 is available)
- **Help** - click on 'Help' and 'About' to obtain software version number

3.3.2 Setting the required speed

The required speed can be set using the left -hand slider control. The speed can be set between 0 & 116% (0 - 70Hz). The speed is adjusted by using the mouse to select and drag the slider to a new value.

3.3.3 Actual speed indicator

The 'Actual Speed' indicator occupies the right -side of the application and is identical in appearance to the 'Required Speed' indicator. It is not user adjustable.

The behaviour of the 'Actual Speed' indicator is dependant on the position of the pump-mounted local/remote switch as follows:

Local/Remote = '1', Actual speed will track the required speed setting.

Local/Remote = '0', Pump will stop & Actual Speed will register 0Hz.

3.3.4 Setting EEPROM speed value

The default speed value retained in EEPROM is the value at which the pump will operate when operated from the remote start input (pin 3 on the 15 way D connector).

The normal EEPROM default speed of 60Hz can be overwritten using the 'Write RAM Value To EEPROM' button that is located in the bottom left - hand corner of the application. This operation can only be carried out when the Local/ Remote switch is set to '0'.

To write a new value to EEPROM, the following procedure should be followed;

1. Ensure Local/Remote switch is set to '0'.
2. Set new default EEPROM speed using the 'Required Speed' slider.
3. Commit new default speed to EEPROM by clicking on the 'Write RAM Value To EEPROM' button.
4. The 'Value In EEPROM' window should now display the new value.

Note: *It is **NOT** possible to read the value stored in EEPROM.*

3.3.5 Re-setting the RAM & EEPROM values

The functionality of the 'Reset RAM & EEPROM Values' button is dependant on the position of the Local/Remote' button as follows:

Local/Remote = '1', Default value (60Hz) will be written to RAM only.

Local/Remote = '0', Default value (60Hz) will be written to both RAM and EEPROM.

3.3.6 Stop Pump

Clicking on this button whilst the pump is running will cause it to stop immediately.

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Return the equipment or components for service

Before you send your equipment to us for service or for any other reason, you must send us a completed Declaration of Contamination of Vacuum Equipment and Components – Form HS2. The HS2 form tells us if any substances found in the equipment are hazardous, which is important for the safety of our employees and all other people involved in the service of your equipment. The hazard information also lets us select the correct procedures to service your equipment.

We provide instructions for completing the form in the Declaration of Contamination of Vacuum equipment and Components – Procedure HS1.

If you are returning a vacuum pump, note the following:

- If a pump is configured to suit the application, make a record of the configuration before returning the pump. All replacement pumps will be supplied with default factory settings.
- Do not return a pump with accessories fitted. Remove all accessories and retain them for future use.
- The instruction in the returns procedure to drain all fluids does not apply to the lubricant in pump oil reservoirs.

Download the latest documents from www.edwardsvacuum.com/HSForms/, follow the procedure in HS1, fill in the electronic HS2 form, print it, sign it, and return the signed copy to Edwards.

Note: *If we do not receive a completed HS2 form, we will not accept the return of the equipment.*

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