

29.12.2005

Nokeval Oy

User Manual

DCS772

USB-POL converter



1 Introduction

With DCS772 you can add a POL interface to your PC. POL interface is used to setup Nokeval devices supporting POL interface.

DCS772 is connected to PCs USB port. Drivers of DCS772 will create a virtual serial port, which can be used as common serial

port. Baud rates and amount of bits are selected in Windows *Control Panel* or directly from your application. DCS772 is used only for configuration.

For trouble shooting there is three LEDs on DCS772.

2 Technical data

2.1 USB-interface

Interface: USB 1.1 or 2.0
USB circuit: FTDI FT232BM
Current : < 100 mA
Connector: USB-B
(USB-A-B cable included).

2.2 POL-interface

Baudrates: 300...9600 bit/s
Bus length: max. 1 m
Connector: 3.5mm mono jack
(cable included)

2.3 Miscellaneous

Size: 56x31x25 mm
Ambient temperature: 0...60 °C
Galvanic isolation: No

2.4 EMC

2.4.1 EMC immunity

EN 61326

2.4.2 EMC emissions

EN 61326 class B

3 Installation

USB circuit of the DCS772 needs two drivers to be installed to PC. First driver is used to create USB connection between PC and converter. Second driver is used to create Virtual Serial Port.

Drivers can be installed from Nokeval Software CD or download the latest drivers from manufacturer of the interface circuit www.ftdichip.com (Drivers, FT232BM). Instructions below show how to install drivers from CD. But you can adapt instructions also for downloaded drivers.

Put Nokeval Software CD to your CD-drive and connect DCS772 to USB port. Windows should recognise a new device and start driver installation automaticly.



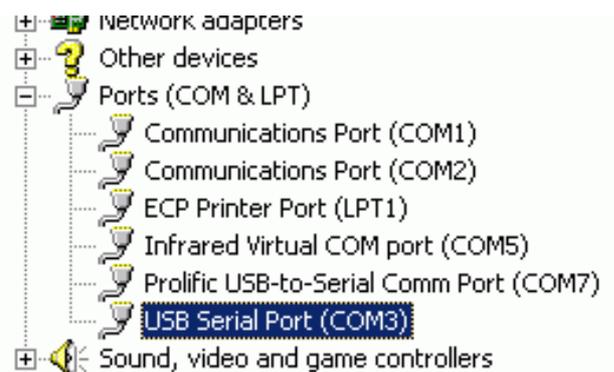
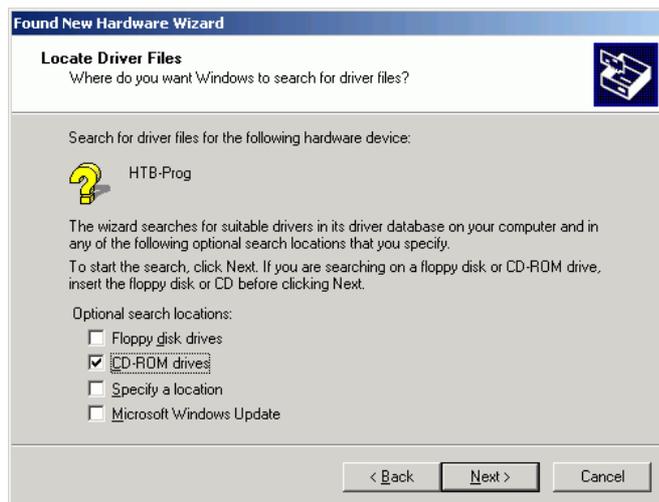


When USB-Driver (ftdibus.inf) is installed, Windows will install VirtualSerialPort-Driver.



Install VirtualSerialPort-Driver same way as USB-driver. OK-LED of converter should turn ON.

Now you have to find out which COM port is associated for the converter. Open *Control Panel / System / Hardware / Device Manager*. From Device tree open Ports. There should be a line for each converter. For example **USB Serial Port (COM3)**.



4 Troubleshooting

LEDs of DCS772 are very useful in troubleshooting

4.1 Step 1: Drivers

If OK-LED is OFF, install drivers.

4.2 Step 2: Transmission

Start your application on PC and check if Tx-LED is blinking. If not there is something

wrong in your application setup. Probably wrong serial port.

4.3 Step 3: Receiving

If Rx-LED is blinking simultaneously with Tx-LED, but not alone. This means your POL device is not responding. Check your device is powered up and serial communication settings are correct.

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