



Welcome to the DMX-USB Driver Installation Instructions

*Please take some time to read these instructions in their entirety. They have been kept brief and simple.*

# DMX1-USB DMX2-USB

## Driver Installation Instructions

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## 1. System Requirements

- Windows 98 / 2000 / ME / XP
- a free USB interface

## 2. Introduction

Before you can use the DMX-USB you have to install two drivers. These drivers enable your application software to communicate with the DMX-USB via a *virtual communications port (VCP)*.

The first driver is a *USB serial converter* which establishes the connection to the DMX-USB through the USB interface and makes the data transfer available to a *virtual communications port (VCP)*.

The second driver is this *virtual communications port (VCP)* which allows your application software to contact the DMX-USB.

All required files can be found on the CD provided.

## 3. Install the Driver

To install the driver:

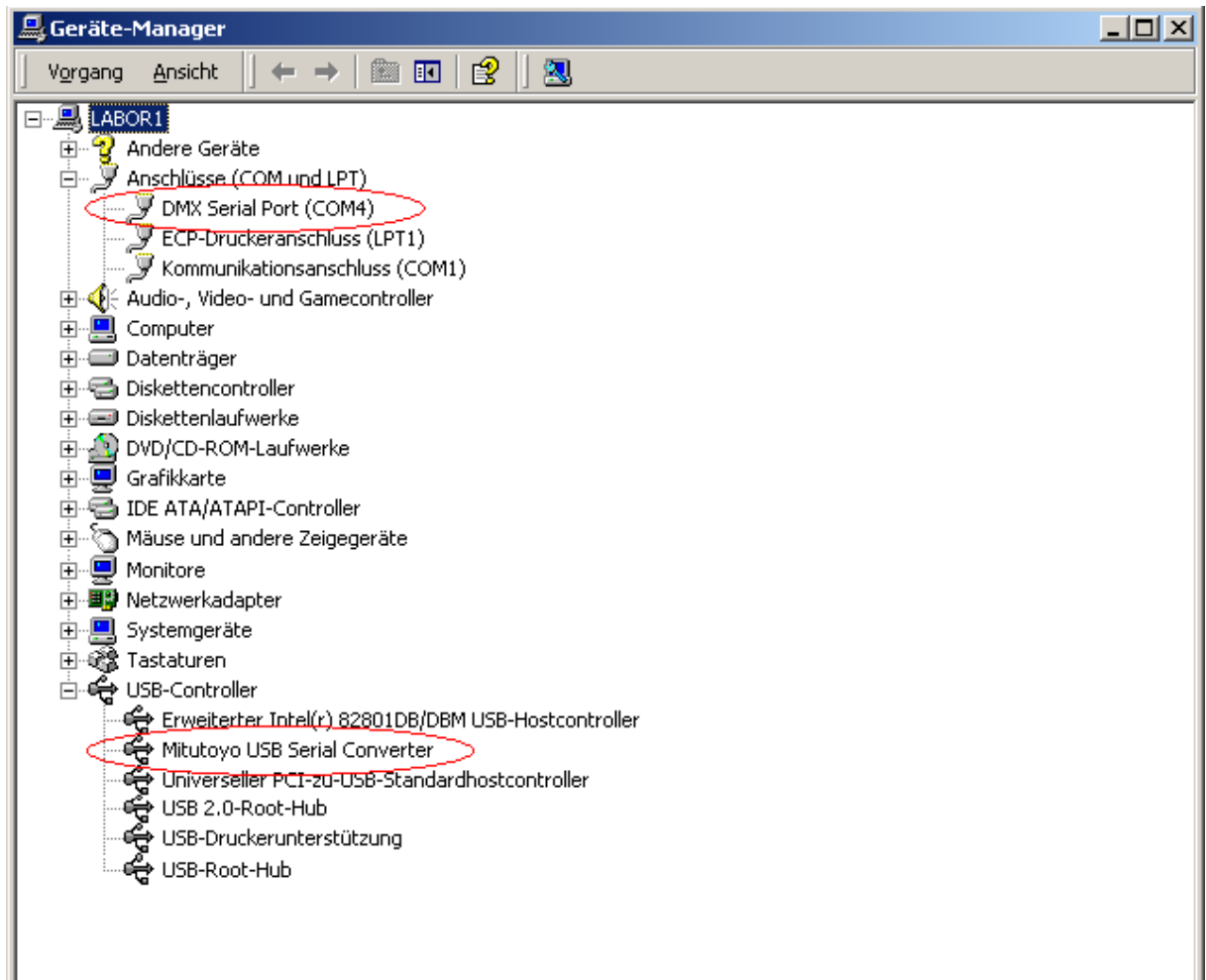
Leave your PC switched on and use the USB cable to connect the DMX-USB to your PC. Windows detects *new hardware*. Please follow the on-screen instructions and install the driver from the CD provided. The second driver should be installed the same way. The driver installation is described in detail in [Appendix A](#).

## 4. View and Change the COM Port

Check in the *Device Manager* which COM port the VCP has been set to so that you know which COM port your application software can use to address the DMX-USB. Proceed as follows:

Go to the *Control Panel* in *Windows*. Go to the *Device Manager* (via *System* and *Hardware*). NB: How you get there, depends on your Windows version. Use the online help if required.

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You will see **Mitutoyo USB Serial Converter** and **DMX Serial Port** listed. The **DMX Serial Port** indicates the COM port number you also have to specify in your application software, in this case **COM4**.

If you want to change the COM port number, right-click on **DMX Serial Port** and in the pull-down menu on **Properties**. In this window click on the **Port Settings** tab and then on **Advanced...**

You can now choose a different COM port. Apply your changes by clicking on all **OK**. Make sure, however, that you didn't change any of the other options by mistake.

Detailed instructions can be found in [Appendix B](#).

## 5. Deinstall the Driver

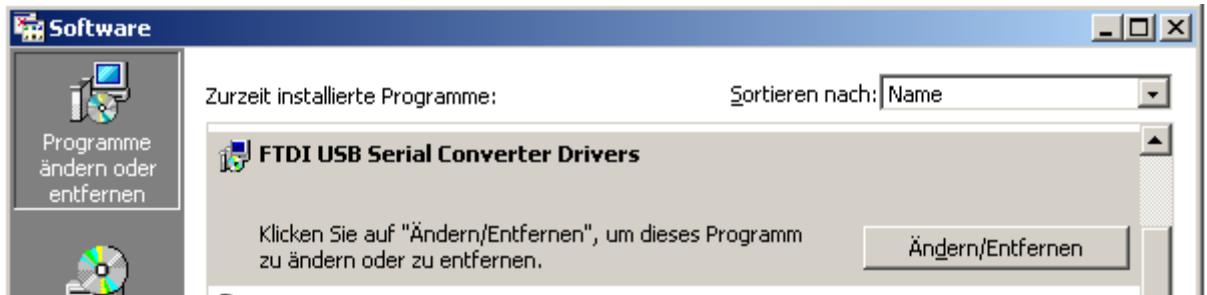
You only have to deinstall the driver if you don't want to use the DMX-USB anymore in the future. This frees the COM port and disk space on your PC.

**Caution:** After deinstall the driver all other devices using the same

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driver (e. g. Bobe-Box) also don't work anymore. So, only deinstall the driver if you are sure that no other device uses the same driver anymore.

Remove the DMX-USB from your PC. Go to the *Control Panel* in *Windows*. Double-click on *Add or Remove Programs*. Click on *FTDI USB Serial Converter Drivers* and then on *Change/Remove*.



In the next window click on *Continue* and *Finish*.

## 6. Using Several DMX-USB Devices

In principle it is possible to use several DMX-USB devices with one PC. However, you have to install the driver for each additional device and will end up with an additional VCP each time. See [View and Change the Communications Port](#).

Caution: Win98 may permit only one driver installation. In that case you can only work with one device.

If you have questions, please contact:

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Borsigstraße 8-10  
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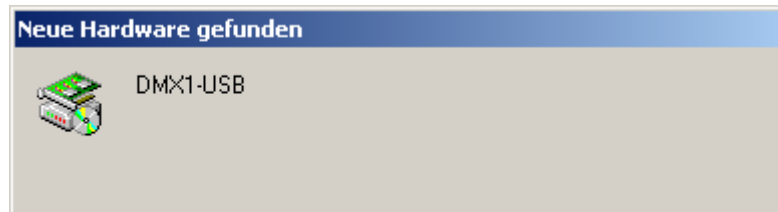
Phone: +49-2137 1020  
Fax: +49-02137 8685

[info@mitutoyo.de](mailto:info@mitutoyo.de)  
[www.mitutoyo.de](http://www.mitutoyo.de)

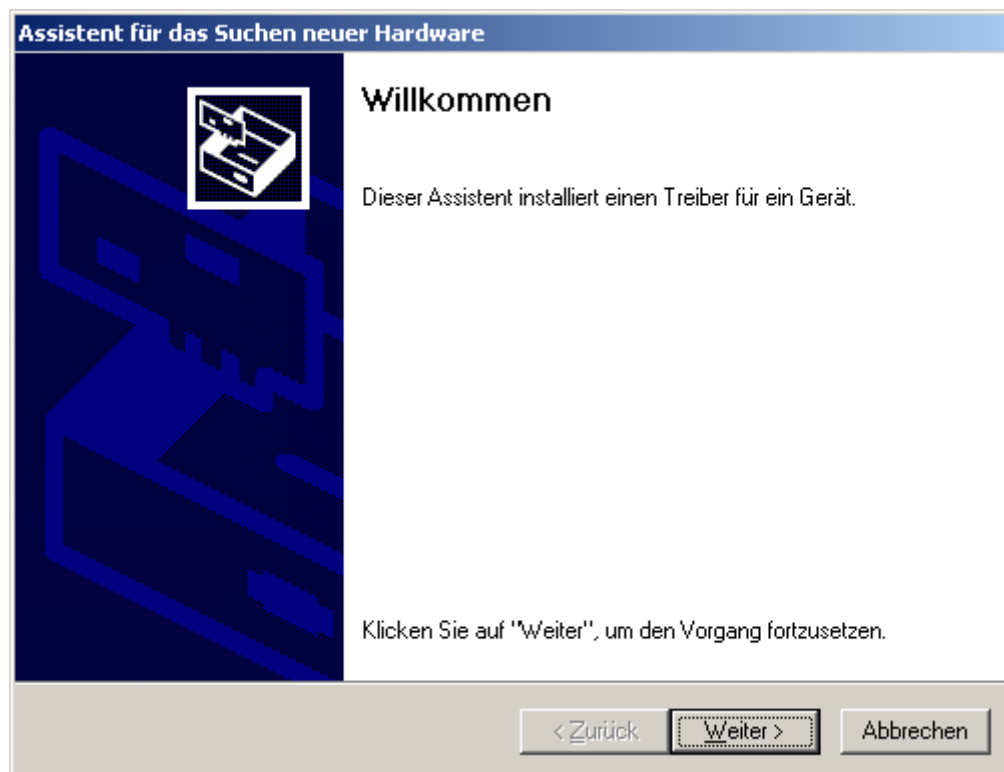
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## Appendix A:

The installation depicted here took place under Windows2000. It is similar for other Windows versions.



The device name is displayed.




Click on *Continue*.

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**Assistent für das Suchen neuer Hardware**

**Hardwaretreiber installieren**  
Ein Gerätetreiber ist ein Programm, das das Ansprechen des Geräts durch das Betriebssystem ermöglicht.

Der Assistent wird die Installation des Geräts fertig stellen:

 DMX1-USB

Gerätetreiber sind Programme zum Steuern der Hardware. Für das neue Gerät sind Treiberdateien erforderlich. Klicken Sie auf "Weiter", um diese Treiberdateien zu suchen und die Installation zu abzuschließen.

Wie möchten Sie vorgehen?

☒ Nach einem passenden Treiber für das Gerät suchen (empfohlen)

☐ Alle bekannten Treiber für das Gerät in einer Liste anzeigen und den entsprechenden Treiber selbst auswählen

< Zurück Weiter > Abbrechen

Select the option that searches for a driver (if required) and click on *Continue*.

**Assistent für das Suchen neuer Hardware**

**Suche nach Treiberdateien**  
Geben Sie an, wo nach den Treiberdateien gesucht werden soll.

Nach Treiberdateien für folgende Geräte suchen:

 DMX1-USB

Der Assistent sucht in der Treiberdatenbank und auf den angegebenen Laufwerken nach passenden Treibern.

Klicken Sie auf "Weiter", um die Suche zu starten. Wenn der Suchvorgang auf einer Diskette oder einem CD-ROM-Laufwerk ausgeführt wird, legen Sie zuvor den Datenträger ein.

Andere Quellen für die Suche:

☐ Diskettenlaufwerke

☒ CD-ROM-Laufwerke

☐ Andere Quelle angeben

☐ Microsoft Windows Update

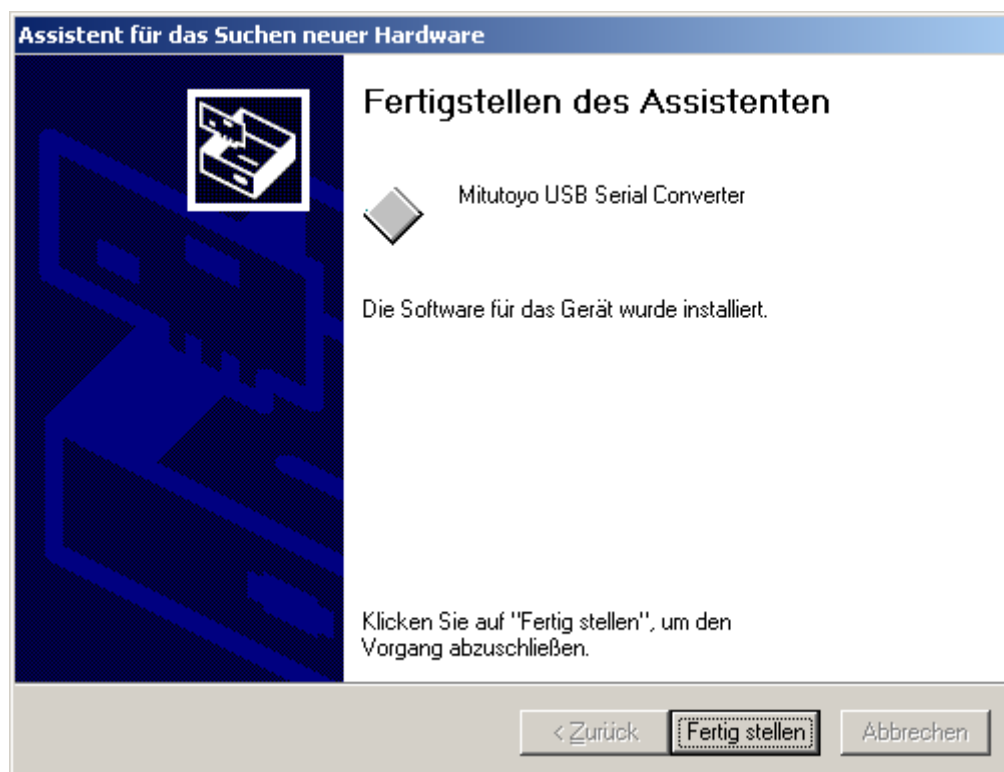
< Zurück Weiter > Abbrechen

Let the system search the *CD provided*. Click on *Continue*.

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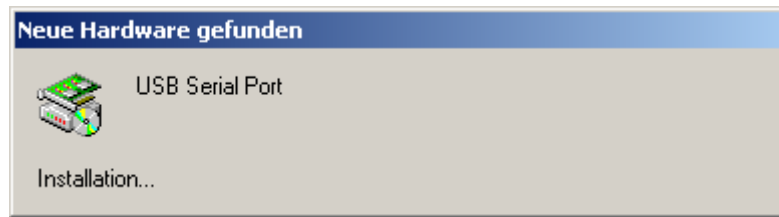
The system should find the *ftdibus.inf* file for the *USB Serial Converter*. Click on *Continue* to install the correct driver.



Click on *Finish*. Then new hardware is discovered a second time.



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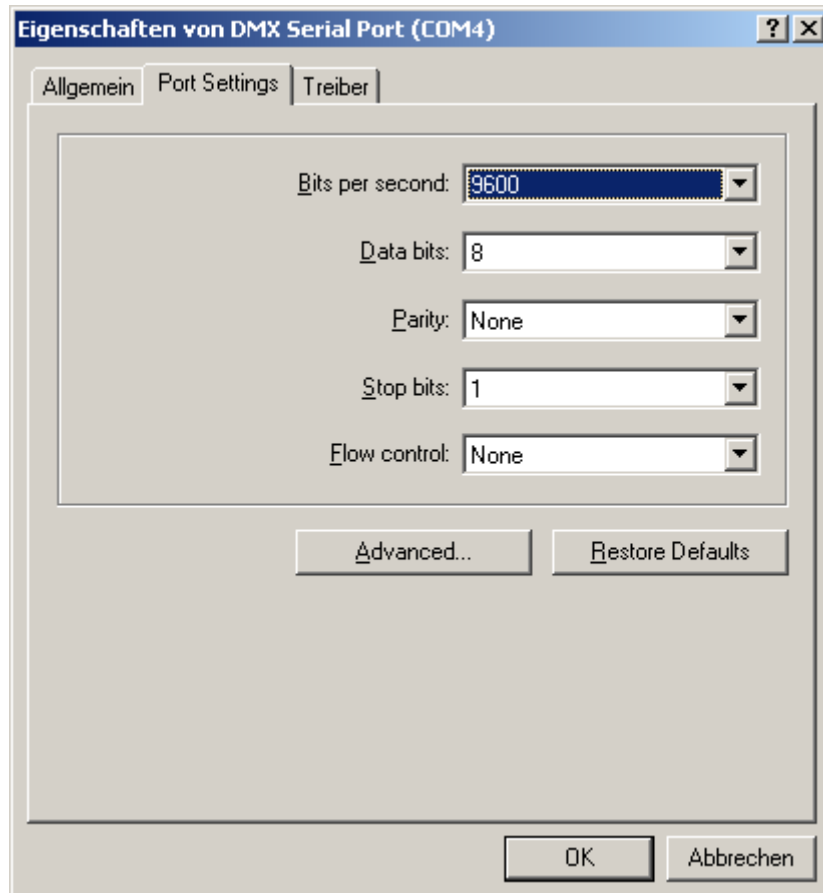


Proceed as you did with the first driver. The only difference is that the system now needs to find the *ftdiport.inf* file for the *virtual communications port*.

The driver installation is now complete.

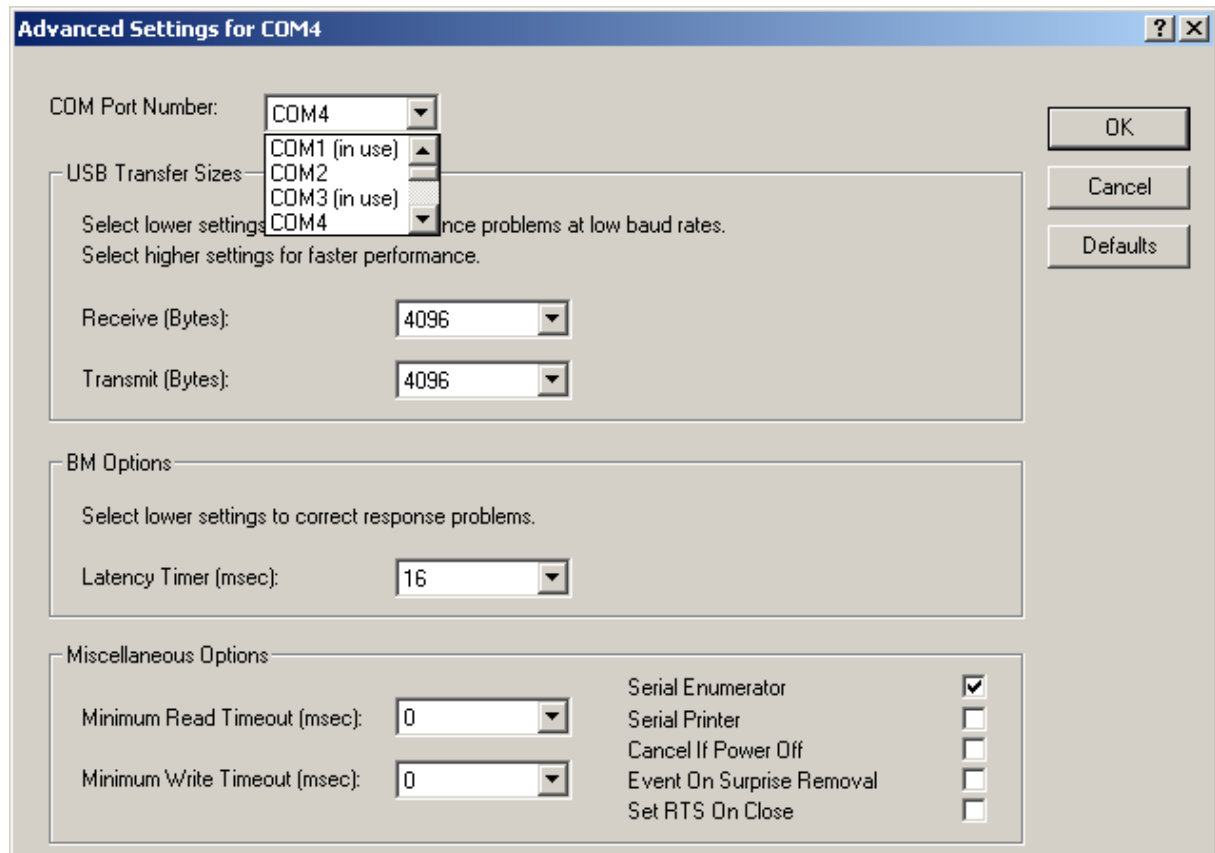
## Appendix B

If you want to change the COM port number, go to the Device Manager and right-click on **DMX Serial Port** and in the pull-down menu on **Properties**.



In this window click on the **Port Settings** tab and then on **Advanced...**

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The image shows a Windows-style dialog box titled "Advanced Settings for COM4". It contains several sections for configuring the serial port. The "COM Port Number" is set to "COM4", with a dropdown menu showing other options: "COM1 (in use)", "COM2", "COM3 (in use)", and "COM4". The "USB Transfer Sizes" section has a note: "Select lower settings to correct problems at low baud rates. Select higher settings for faster performance." Below this, "Receive (Bytes)" and "Transmit (Bytes)" are both set to "4096". The "BM Options" section has a note: "Select lower settings to correct response problems." and "Latency Timer (msec)" is set to "16". The "Miscellaneous Options" section includes "Minimum Read Timeout (msec)" and "Minimum Write Timeout (msec)", both set to "0". On the right side of this section, there are five checkboxes: "Serial Enumerator" (checked), "Serial Printer", "Cancel If Power Off", "Event On Surprise Removal", and "Set RTS On Close" (all unchecked). On the far right, there are three buttons: "OK", "Cancel", and "Defaults".

Advanced Settings for COM4

COM Port Number: COM4

USB Transfer Sizes

Select lower settings to correct problems at low baud rates.  
Select higher settings for faster performance.

Receive (Bytes): 4096

Transmit (Bytes): 4096

BM Options

Select lower settings to correct response problems.

Latency Timer (msec): 16

Miscellaneous Options

Minimum Read Timeout (msec): 0

Minimum Write Timeout (msec): 0

Serial Enumerator ☒

Serial Printer ☐

Cancel If Power Off ☐

Event On Surprise Removal ☐

Set RTS On Close ☐

OK

Cancel

Defaults

You can now choose a different COM port. Apply your change by clicking on **OK**. Make sure, however, that you didn't change any of the other options by mistake.