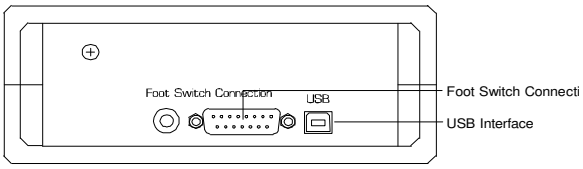
First Operation of the M-Box xx USB

Please read these instructions carefully to set up the M-Box easily and quickly.

The following simple steps describe how to connect and test our device. For more detailed information see the appropriate manual sections.

Step 1: Connect the device to the PC.



Use the USB cable provided to connect the box to a free USB port on your PC. The box is powered via the USB cable which means that it is always switched on. After connecting the device for the first time you have to install the driver from the CD provided.

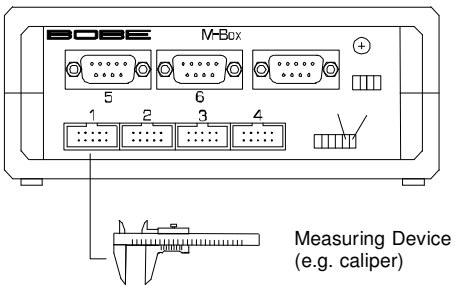
Please read the driver installation instructions on the CD!

Check the following points:

- Is the green power supply LED (1) at the front on?
- Is the green foot switch LED (2) at the front on when the foot switch is pressed?

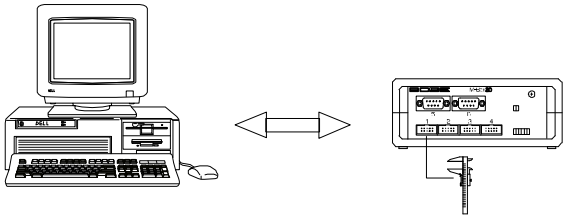
If both LEDs are on, the general functionality of the box is guaranteed.

Step 2: Connect the measuring device.



First disconnect the box from your PC and then connect the measuring device. Make sure that you use the correct data cable. Some cables of different manufacturers might look similar. The correct cables are shown in the tables in section C. If you have a box with Digimatic connections test these first because they do not require any configuration.

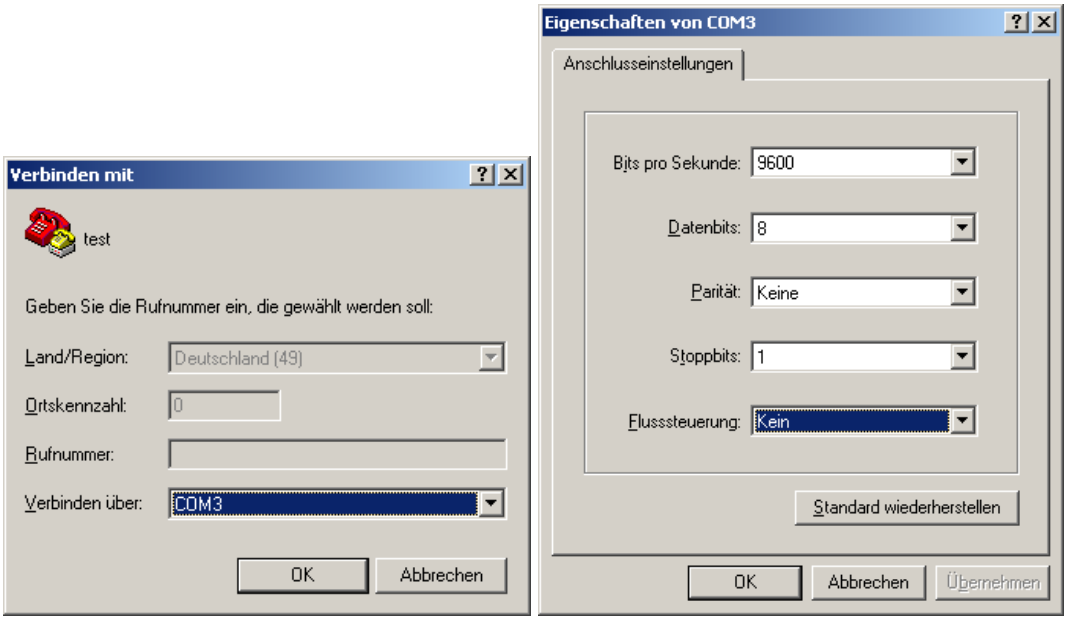
Step 3: Operational Test



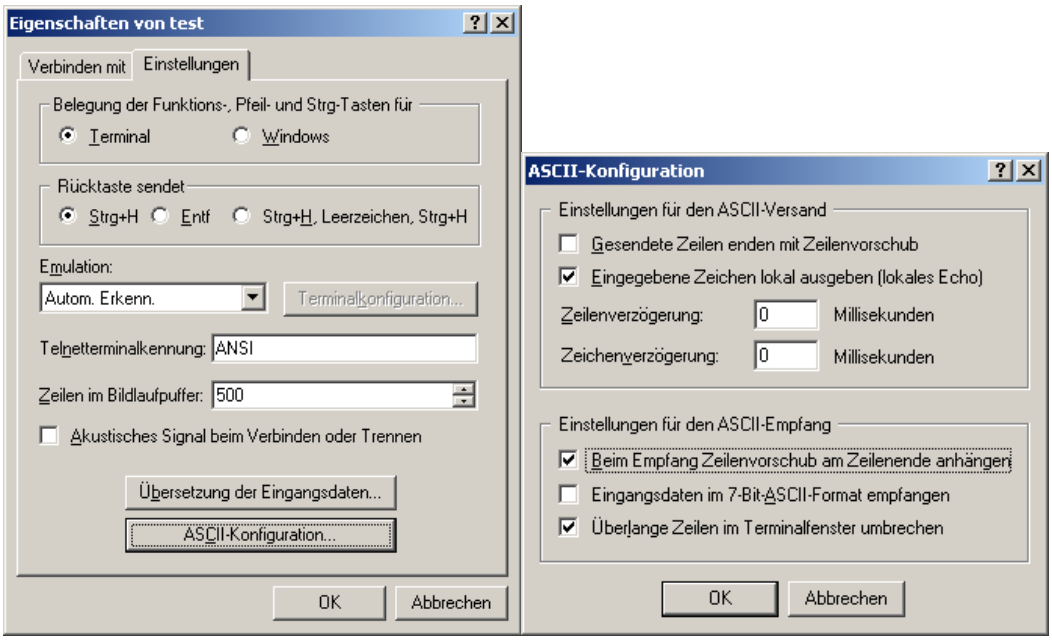
As we do not know which software you are using, we cannot advise you how to perform a software-related operational test. To test the box functionality we are using Windows HyperTerminal. Other terminal programs might work differently. You will find HyperTerminal under *Start/All Programs/Accessories/Communications*. You might have to install it from the Windows Installation CD. If you do not have any experience working with Windows, please ask an experienced colleague.

M-Box xx USB Operational Test

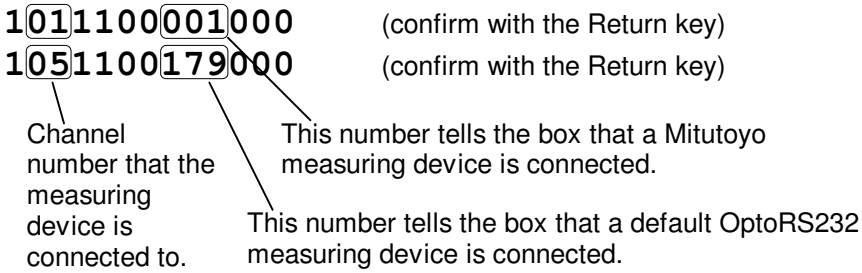
1. Always connect the box to your PC before you start the terminal program or your application software. The virtual COM port is only available once you have connected the box.
2. Start the terminal program. If you start it for the first time, you have to supply certain information. It is important that you choose the correct COM port and transfer parameters. To check what number the new virtual COM port has, read the section on the COM port in the Driver Installation Instructions.



Provide these settings and then make the following changes in the *File/Settings* menu:



3. The status bar should now show *Connected*. If not, click on *Call*. Press the Enter key several times. If you receive the message E,1101, the connection to the box is operative. You can now test the measuring devices. Make sure that the measuring devices are switched on.
4. To ask the box to transfer a measured value you have to enter a certain character string (section D). This character string depends on the connected measuring device. The example shows the character string that is needed to read the measured value from a Mitutoyo measuring device at channel 1 and from a default OptoRS232 measuring device at channel 5.



If you use a different channel, you have to change `01` (e.g. `05` for channel 5). If you use a measuring device other than Mitutoyo, you also have to change `001`. You can locate the number that corresponds to your measuring device in section C under *Company Number* (e.g. `276` for Mahr 1085 Digital Indicator).

When all entries are correct, the measured value will be displayed continuously. Pressing any key stops the measured value display. You have to enter the character string again for a new trial.

If the measured value is displayed, the operational test was successful.

If an error occurs (e.g. E,1101), consult the *Error Messages* section in the manual.