

### **A procedure of drivers' installation for USB to RS232 Serial Converter in Lactoscan Analysers**

The option embedded USB interface (USB to RS232 Serial Converter) for a connection of the Lactoscan analyser (LS) with a computer type IBM PC requires an installation of the current driver.

That USB interface is made on the base of the element MCP2200 of the company Microchip Technology Inc. – site <http://www.microchip.com>. This company offers a driver and an installation procedure described in the web site of the producer: <http://www.microchip.com/wwwproducts/devices.aspx?ddocname=en546923>, item [MCP2200 Windows Driver and Installer](#)

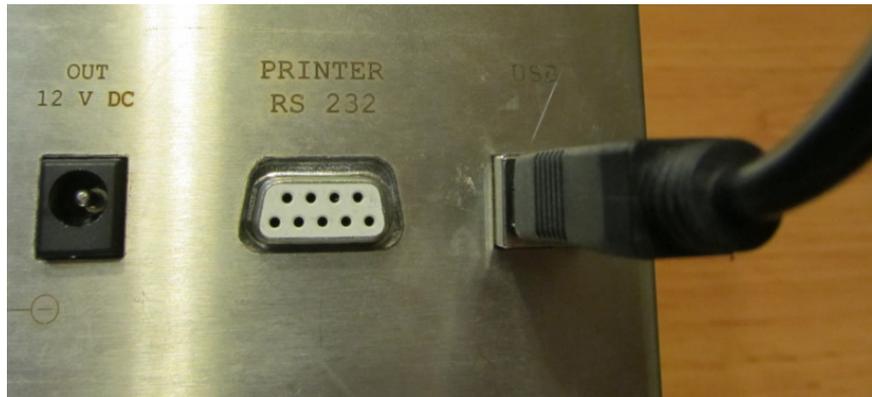
It is possible, the company Microchip Technology Inc. to change its site, so the Internet site to be missing or to be on another address. The customer needs to use the navigation on the Internet site to find the needed information.

As different variants (ways of installation) are possible, below we offer our description of the procedure of installing the standard driver Mcp2200.info for Windows Xp.

Connection between the analyzer and PC is done with standard USB Cable: computer – Printer. The coupling (Printer USB Type), in which to be connected the cable is situated on the rear panel of the analyzer, just next to the standard RS232 connector, DB9 type, as it is shown on the picture.



Connected cable to the USB RS232 connector:



The other coupling of the cable is connected to chosen by the customer USB connector of the computer (laptop), as it is shown on the picture:



After connecting the LS with the computer through a USB cable and switching on the power supply the following window appears:

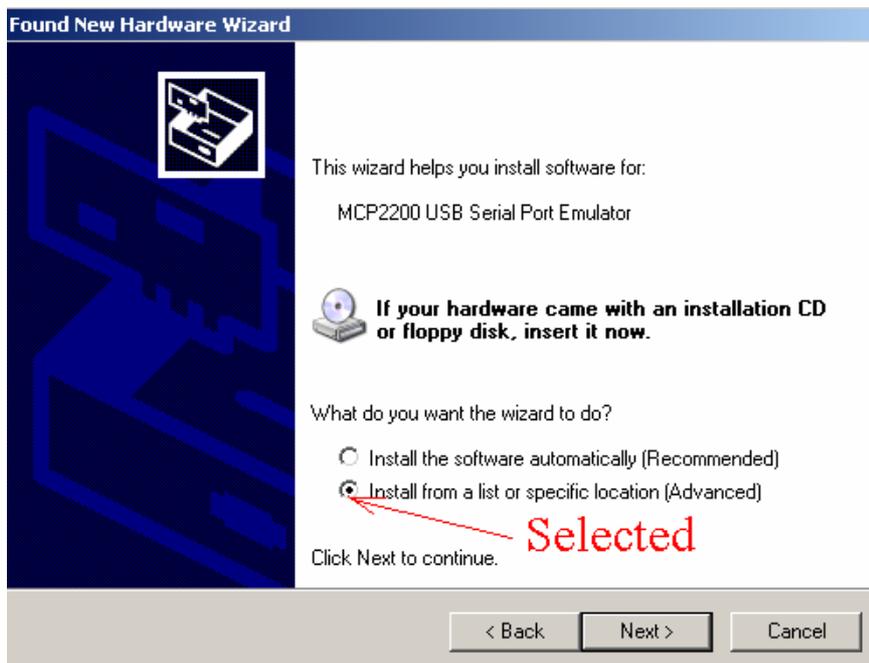


After that the following window appears:

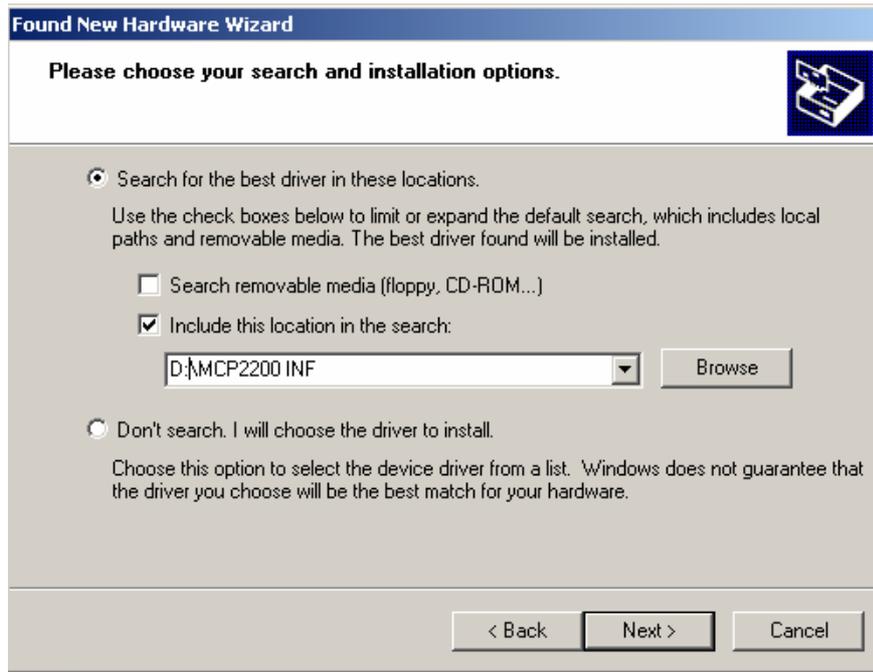


The operator has to choose the marked option and to press the button Next.

The following window appears:



Using the Browse option from the next window, the operator has to choose the folder where the driver is in.



After that he has to continue with the button Next. And the following window is shown:



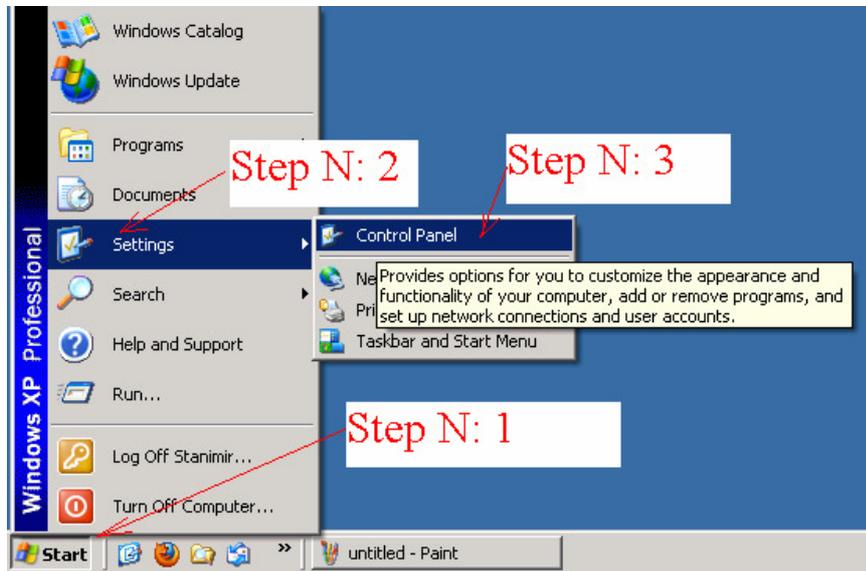
By pressing the button Continue Anyway the procedure goes on. The procedure is over with the appearance of the following screen:



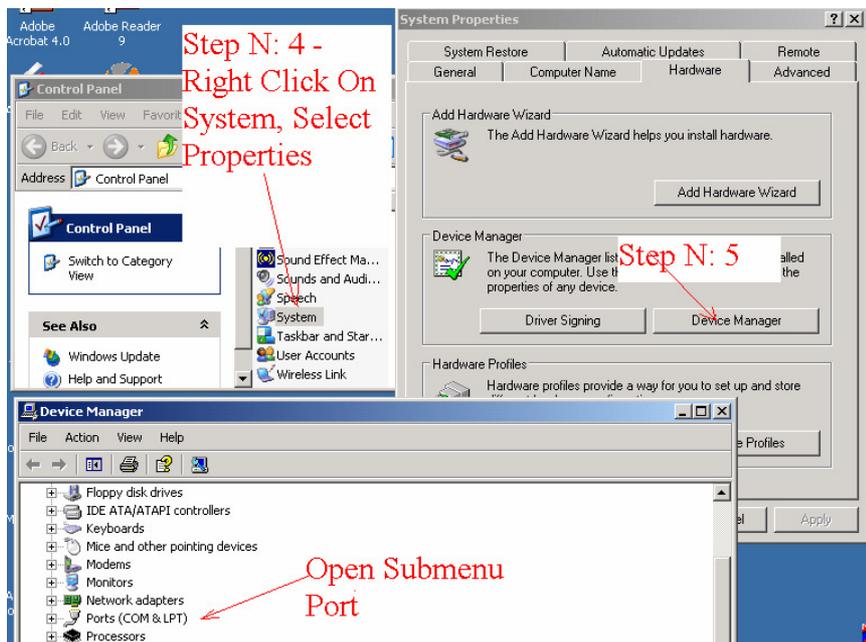
Showing this message means that the driver is installed correctly.

## Changing the number of COM Port

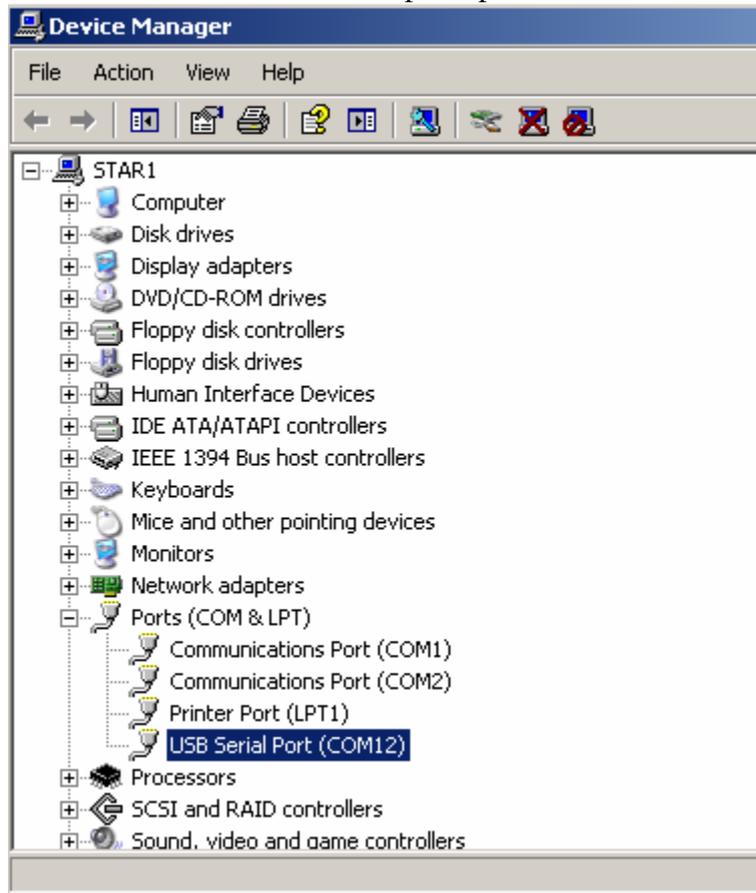
The next task is to check, and if necessary to change, the number of COM Port, on which the driver is installed. The following succession is being observed (the numbering steps)



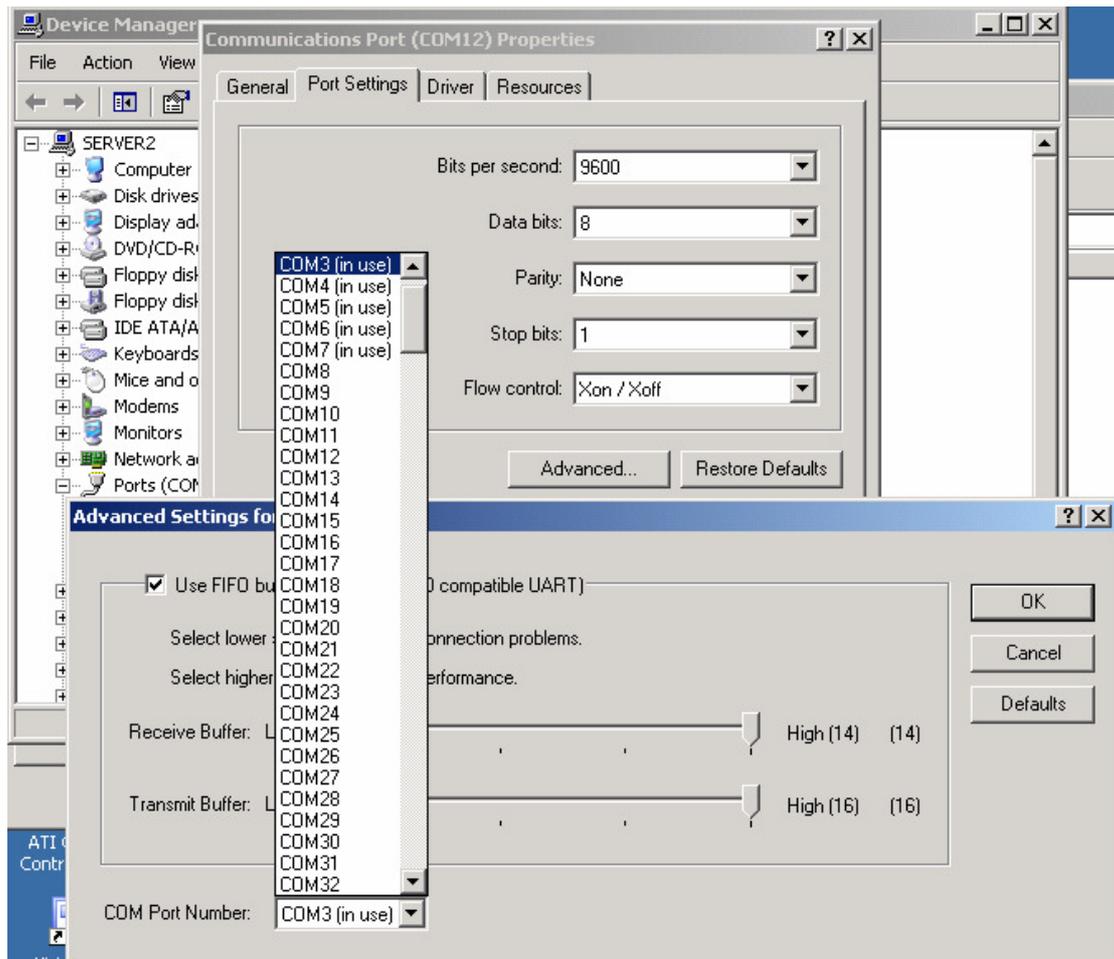
The following succession is being observed:



By opening Submenu Ports (COM & LPT), an analog view is shown – a description of the available in the computer ports:



It is possible after installing the driver, a casual number of COM Port to be chosen, as in that case it is number 12. Because the program tools work with numbers from 1 to 4 (or to 9), observing the following procedure, the smallest free number is being chosen, in that case 3. On the driver of...- right click, choose Properties and the following screen appears:



Choose Port Settings → Advanced and in the COM Port Number field choose the smallest free number – in that case 3. Like this the whole installation and setting the USB to RS232 Converter is over.

*Note:*

*In the example above, choosing the smallest free port is not obligatory but advisable. It is important the program tool with which the operator will work to support the set number above because the different tools work with a different maximum number of the communication port.*

Now the changed number of the COM Port is inserted in the field of choosing the communication port of the started program tool, for example:



or:



After the so made installation the communication through the USB cable between the device and the computer IBM PC is normal. You have to know that at one and the same moment the communication can be made only through one cable, which means that the device can not be connected at the same time with two different computers through two cables.