INTERFACE

Lode Ergometer – Viasys Oxycon Pro

V2.00

STEP I **Setting up the hardware**

1. For controlling the ergometer by the **Oxicon Pro** you need a **RS232** cable (part no. **930911**), The lay-out of the cable is as follows:

Straight RS232 cable 930911		
D-con 9 pin female		D-con 9 pin male
2 RxD	----------	2 TxD
3 TxD	----------	3 TxD
5 GND	----------	5 GND

2. Connect the RS232 cable to the ergometer *(see figure 1).*
3. Connect the RS232 cable to the **Oxicon Pro** *(see figure 2).*

STEP II **Setting up the ergometer**

4. Switch on the ergometer

   The Corival ergometer is default shipped with the LODE RS232 communication protocol.It should be set to the Lode WLP Protocol.
   To change this to the correct RS232 Protocol by following the procedure below:
   - Switch on the ergometer and press enter.
   - You will be in the "MAINMENU"
   - Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
   - Select, by using the up/down keys, the menu "SETTINGS" and press enter
   - Select, by using the up/down keys, the menu "RS232 PROTOCOL" and press enter
   - Select, by using the up/down keys, the " **LODE WLP PROTOCOL**" and press enter.
   - Save the selected RS232
   - Switch off the ergometer.

5. For controlling the ergometer by the **Oxicon Pro** the ergometer should be set in "**TERMINAL**" mode. The "**TERMINAL**" mode should be selected as follows. After switching the ergometer on press enter, and select "**TERMINAL**" mode and press enter again

   NOTE: You can also let the ergometer startup in "**TERMINAL**" mode every time you switch on the ergometer, by using the default start menu. To set up the ergometer for starting up in "**TERMINAL**" mode proceed as follows:
   - Switch on the ergometer and press enter.
   - You will be in the "MAINMENU"

- Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
- Select, by using the up/down keys, the menu "SETTINGS" and press enter
- Press enter to confirm the menu “DEFAULTSTARTMENU”
- Press enter to select **“TERMINAL”** and store you selection

If you switch off the ergometer it will start-up in the "**TERMINAL**" mode every time when the ergometer is switched on again.

6. The Lode ergometer is now ready for external control

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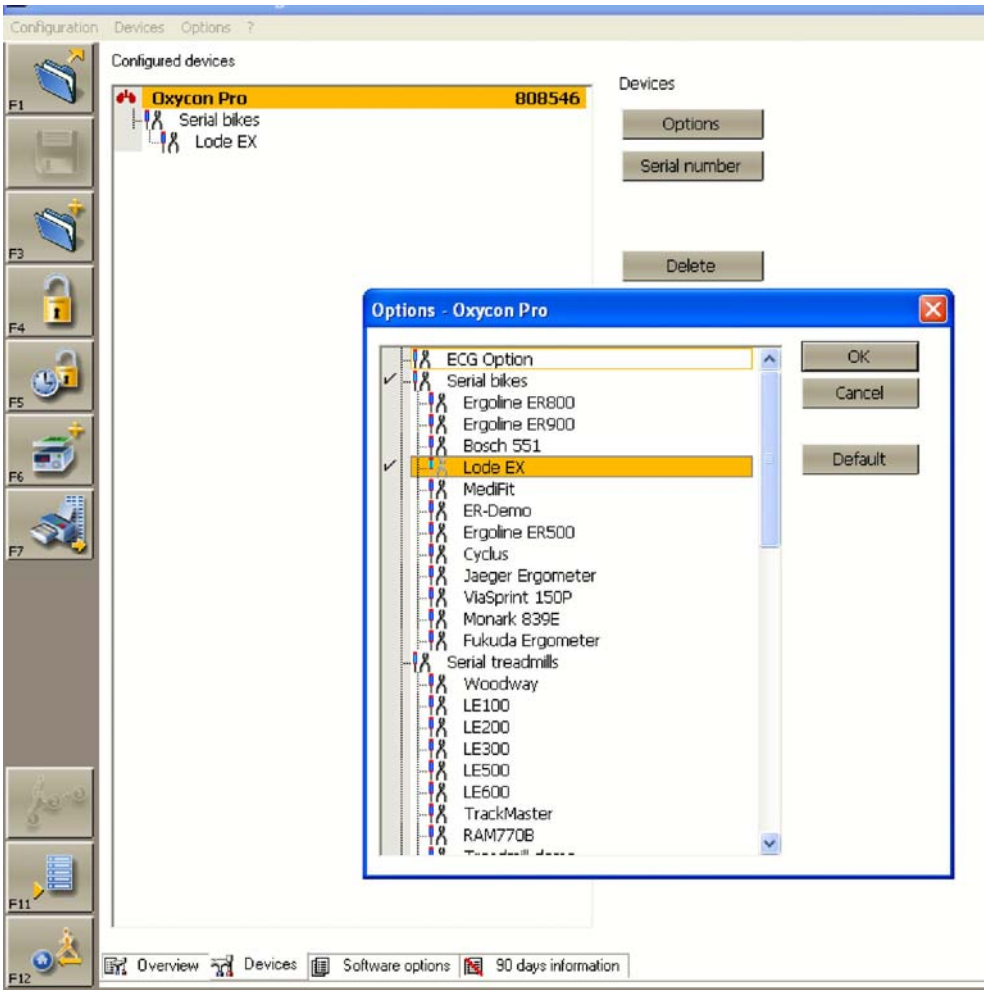
STEP III Setting up the Oxicon Pro

If the Oxicon Pro has been bought with the knowledge it should be delivered in combination with a LODE ergometer the supplied configuration disk is already prepared with the correct settings.
If this is not the case you must step through the following procedure:

1. Start the LAB configuration tool
2. Press the button “Options” the following dialog window will appear.



Select the Lode EX as serial bike and press Ok to store the selection.

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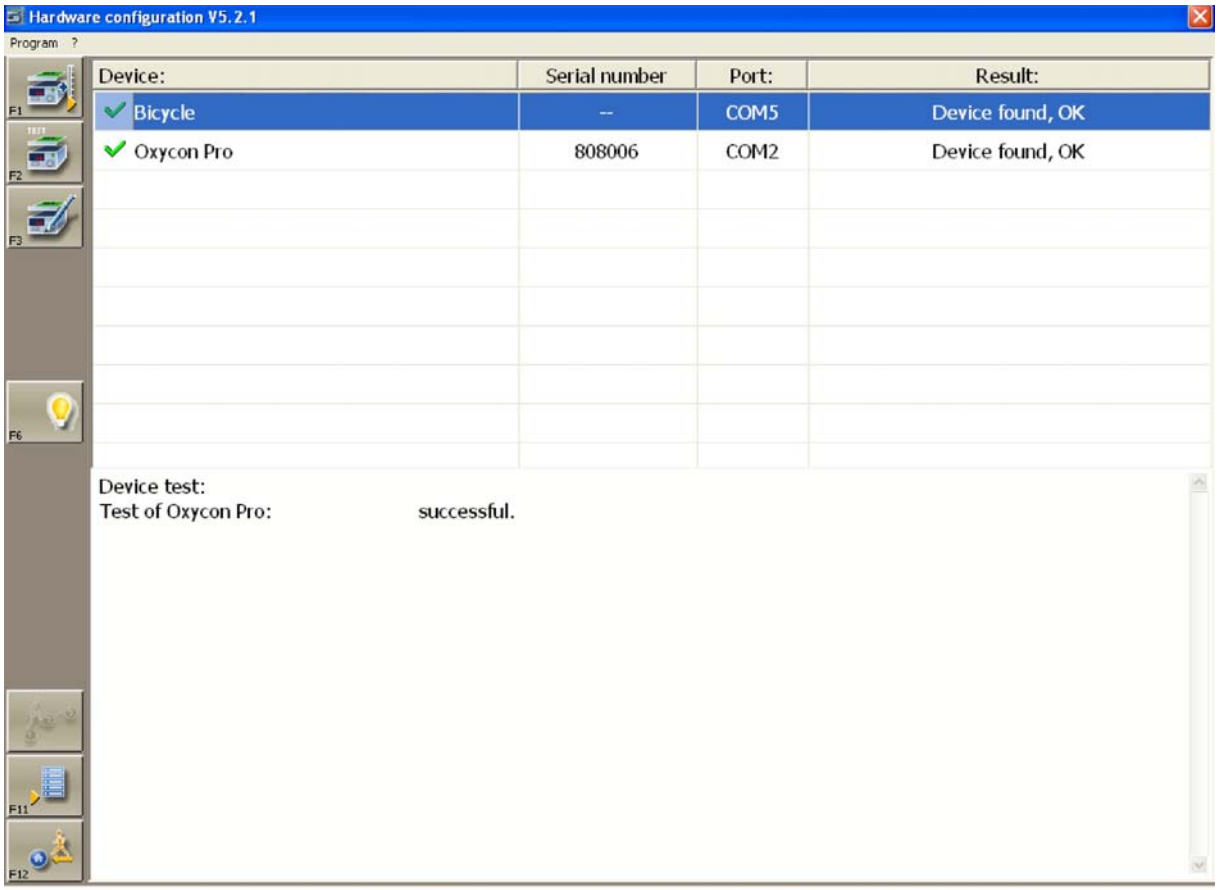
Now you have to configure the RS232 port on the Oxicon Pro.

1. Start the LAB Hardware configuration tool
2. Press F3 to configure the COM ports
3. Press F2 to test the communication between the ergometer and the Oxicon Pro
4. The following screen will appear and when the settings has been done correctly the software will display the message “Device found, OK”



Restart the ergometer and ECG device and then your system is ready to be used.

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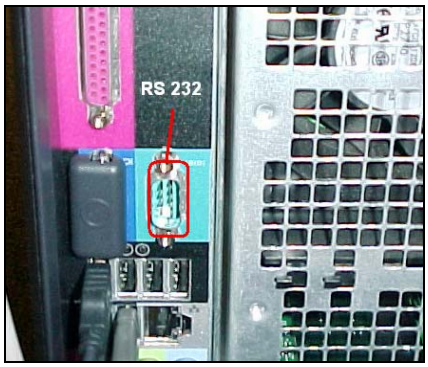

Figure 1

Figure 2

Remarks:

- The installation procedures of the Lode ergometers Corival, Angio and Excalibur (Sport) are all the same. The connection of the cables may be on slightly different places.

For questions and comments, you can contact the Lode service department by e-mail at service@lode.nl or by telephone at +31 50 5712811.

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