INTERFACE
Lode Ergometer – Lactware ®

STEP I **Setting up the hardware**

1. For controlling the ergometer by the Computer on which the **Lactware software** is installed 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 picture 1).*
3. Connect the RS232 cable to the computers available COM port *(see picture 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 RS232 protocol**
   If necessary you can change the RS232 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 RS232 protocol**" and press enter.
   - Save the selected RS232 protocol or restore the default RS232 protocol, which is also the LODE PROTOCOL.
   - Switch off the ergometer.

5. For controlling the ergometer by the Computer on which the **Lactware software** is installed 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**" and press enter again.

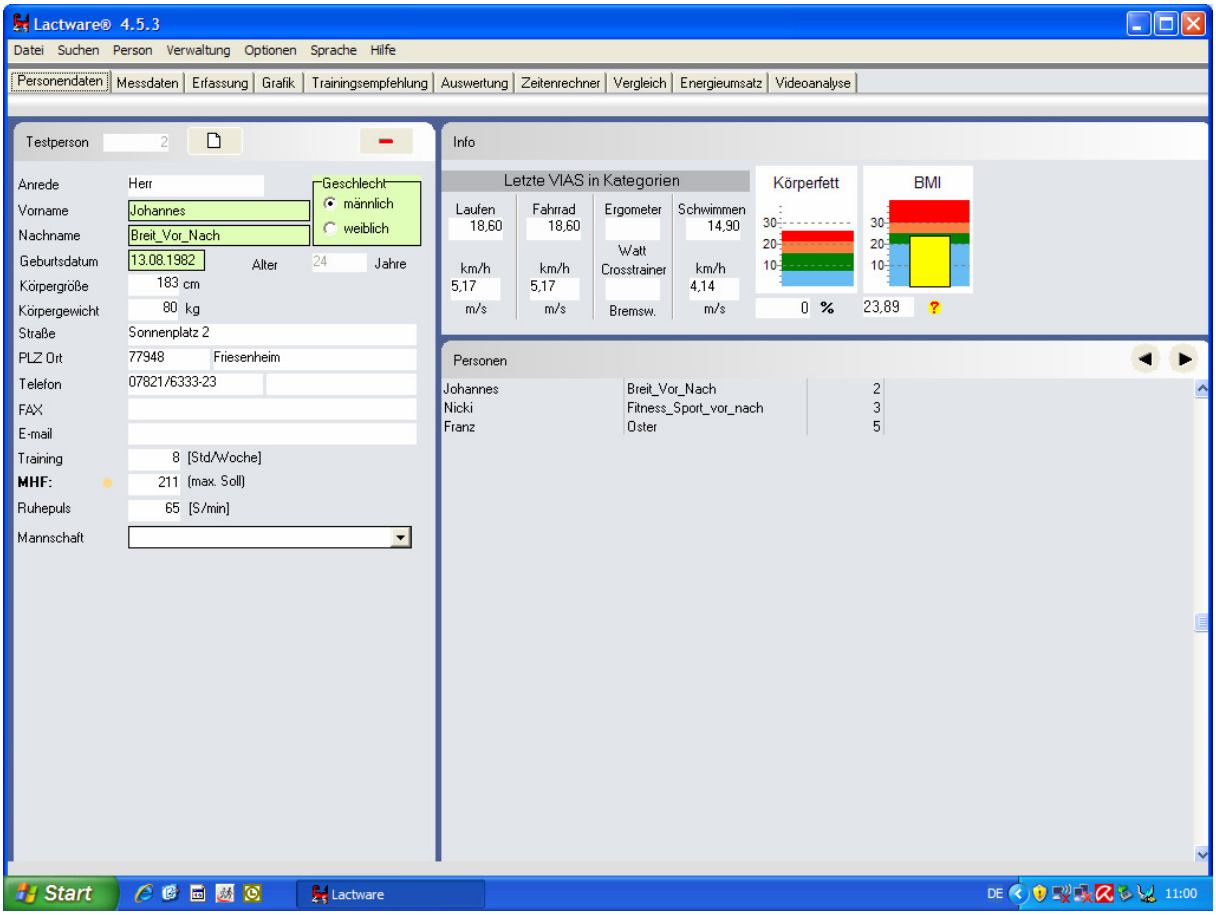
   NOTE: You can also let the ergometer startup in "**TERMINAL**" mode every time you switch on the ergometer, by using the default start menu. To set up the ergometer for starting up in "**TERMINAL**" mode proceed as follows:
   - Switch on the ergometer and press enter.

- 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” and press enter

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

STEP III	**Setting up the lactware software**



From the main screen go to Testsubject (Personendaten).

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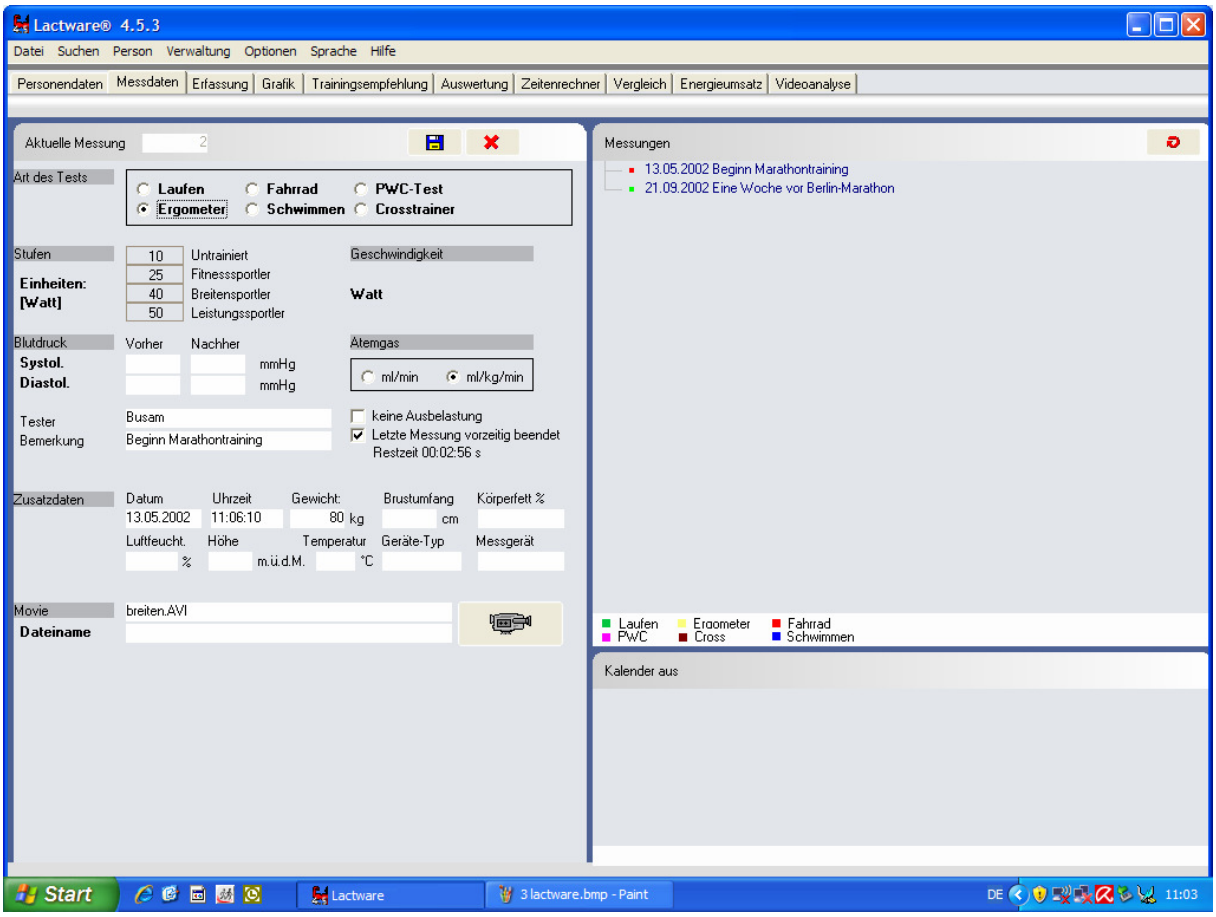
Select Testdata (Messdaten) The following screen will appear



the standard in Ergometry

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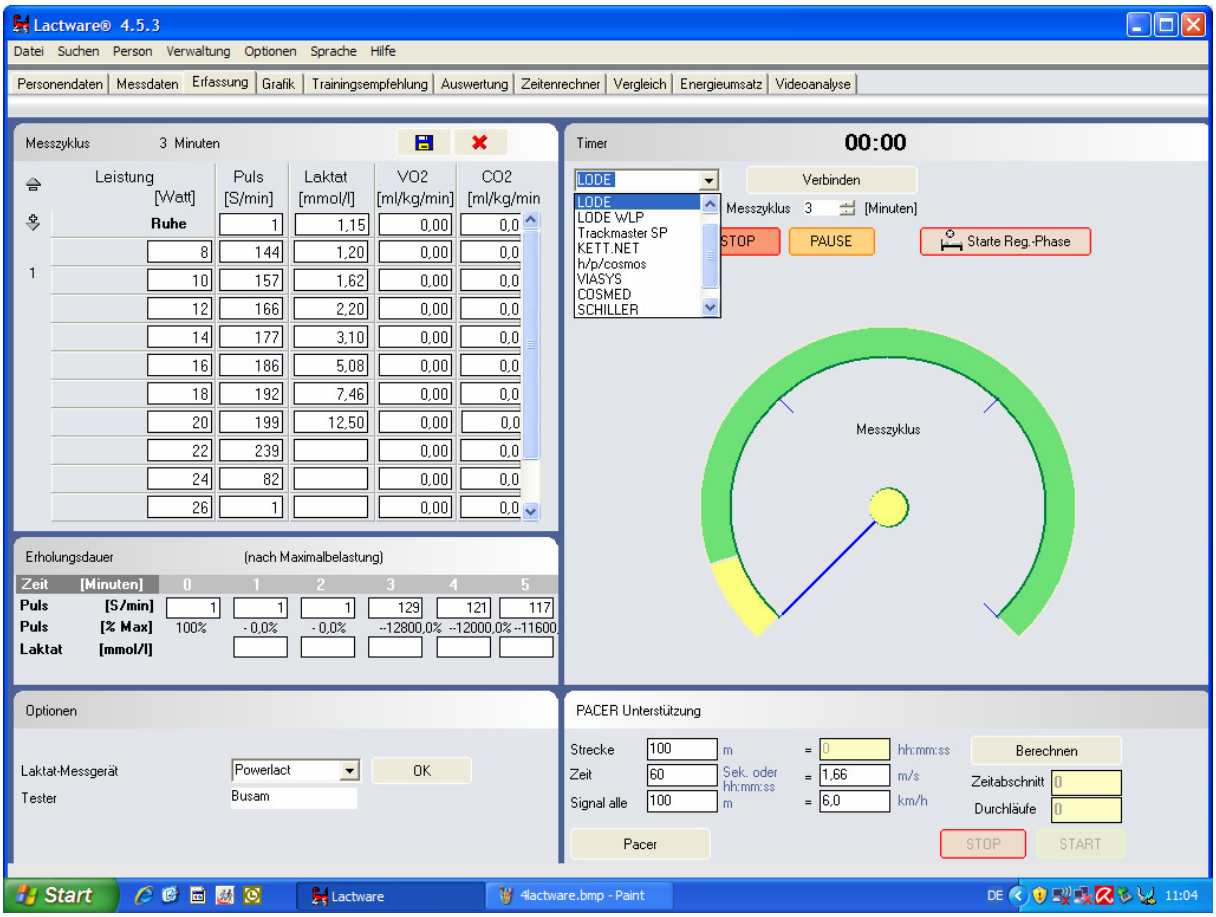
Select test Protocol (erfassung) and choose the ergometer “LODE” from the pull down menu as shown on the picture below.



the standard in Ergometry

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

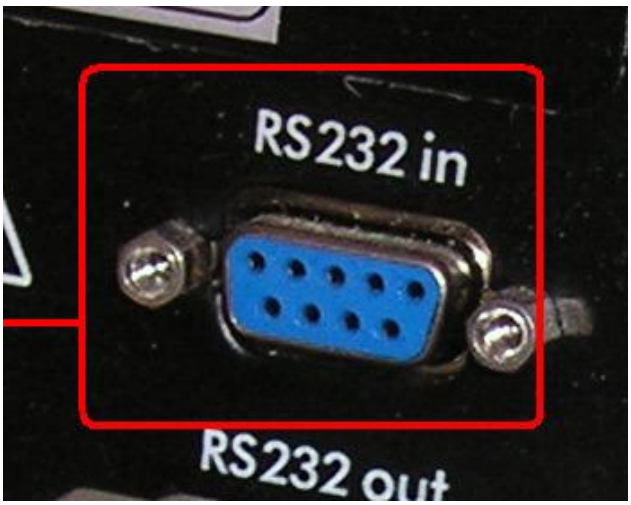

Figure 1

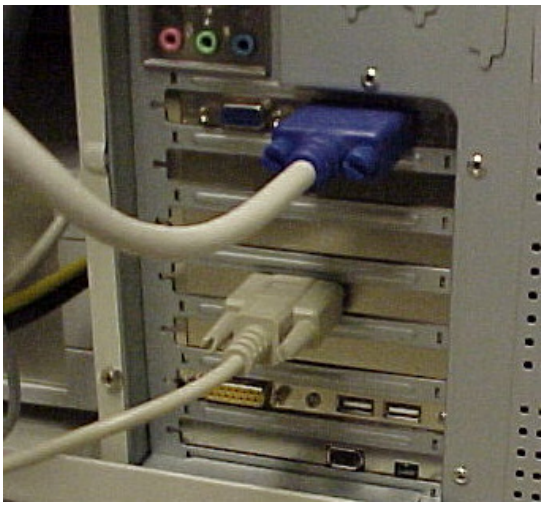

Figure 2

The installation of other Lode serial devices is performed the same way.

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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