INTERFACE

Lode Ergometer – ParvoMedics TrueOne

STEP I **Setting up the hardware**

1. For controlling the ergometer by the **TrueOne** you need a **RS232** cable 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 **TrueOne** *(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 38K4 **RS232 protocol**
   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 38K4 **RS232 protocol** " and press enter.
   - Save the selected RS232 protocol.
   - Switch off the ergometer.

5. For controlling the ergometer by the **TrueOne** the ergometer should be set in "**TERMINAL**" mode. The "**TERMINAL**" 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 start-up 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 TrueOne**

1. Start the ParvoMedics TrueOne system.
2. The system will start in the mainscreen of the TrueOne.
3. Click on “Utilities” (fig.1)

Fig 1

4. In the Utilities screen, click "Hardware Configuration" (Fig. 2)

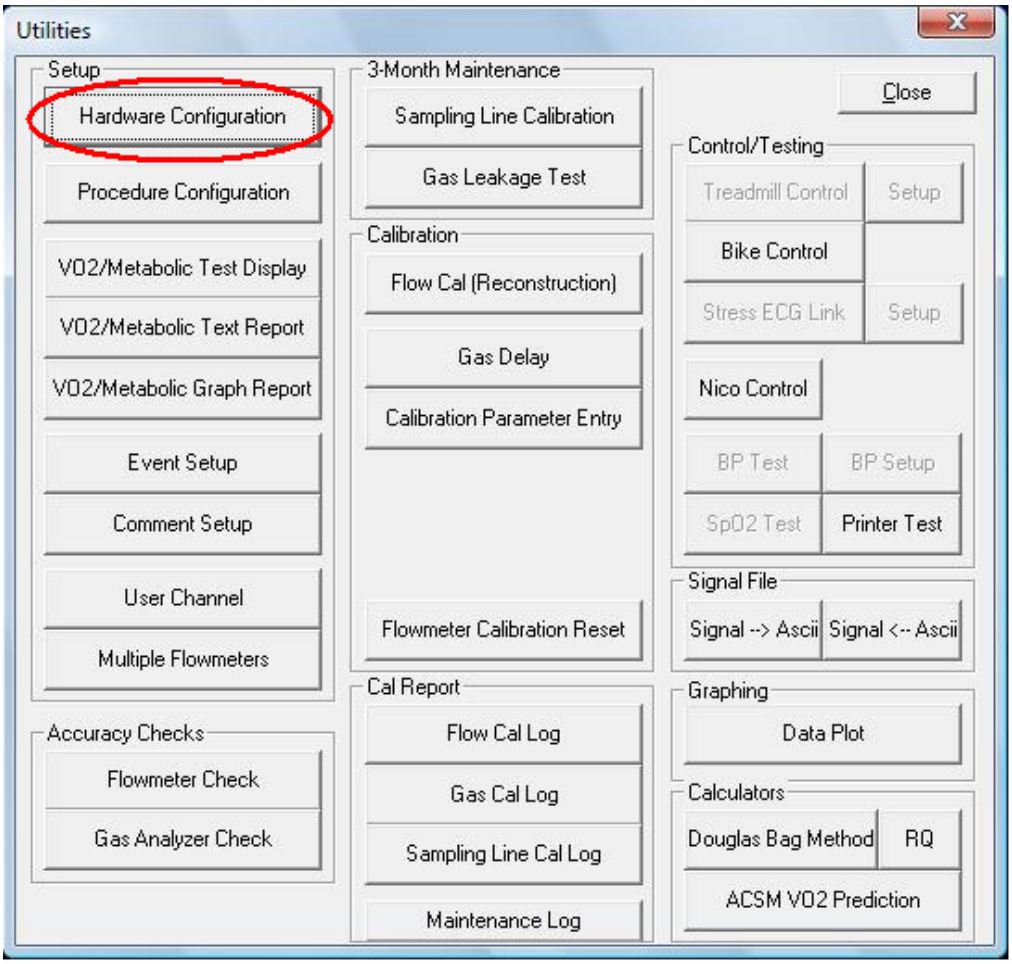

Fig 2

5. Select Form out of the Hardware Configuration screen, "Bike" and use the dropdown menu to select the correct ergometer type.
6. Select the "Lode 38K4 RS-232",
7. Specify the COM port you will be using on the computer.(Fig. 3).
8. After saving the Hardware Configuration, you can click "Bike Control" in "Utilities" to test the communication with the bike. (Fig. 2).

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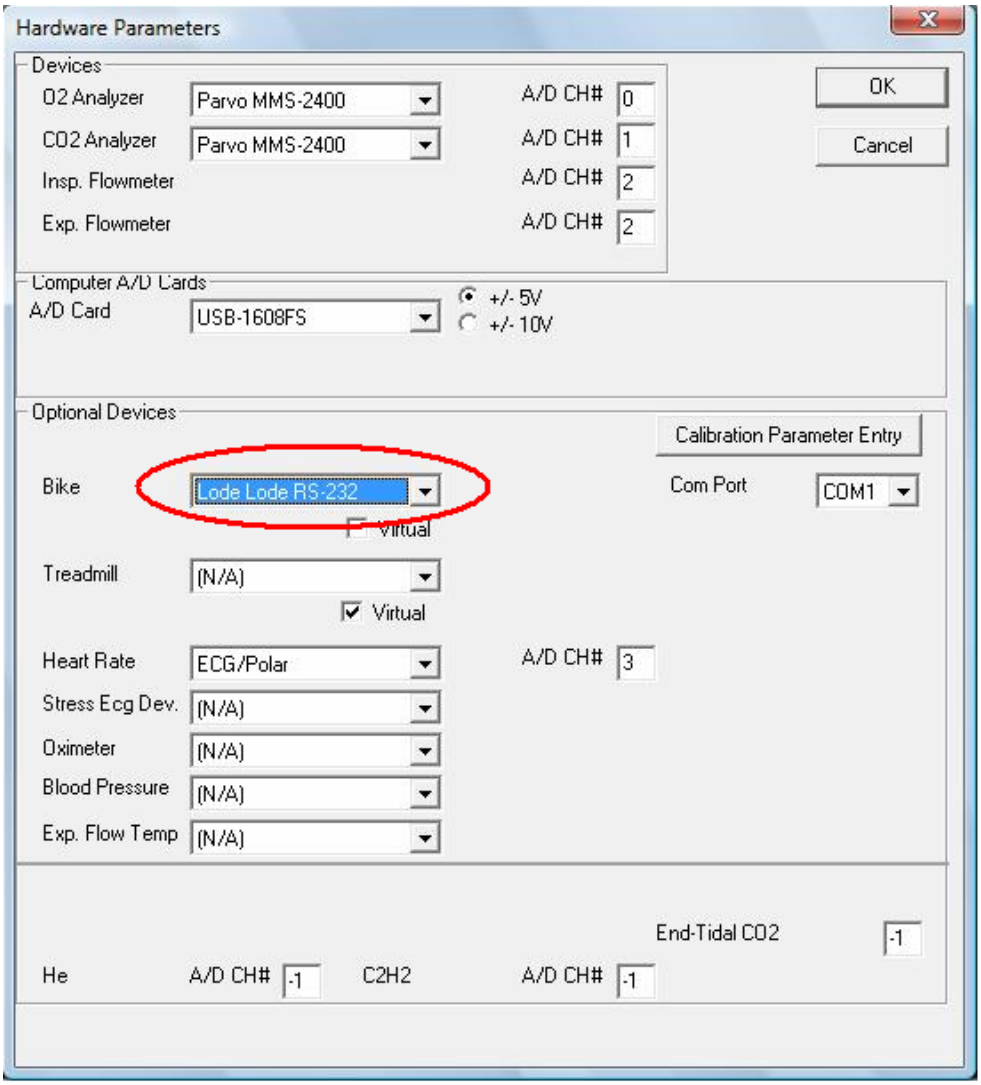

Fig 3

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

lode
the standard in Ergometry

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Picture 1: Connection to the Ergometer

Picture 2: ParvoMedics TrueOne

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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