INTERFACE

Lode Ergometer – Cortex Metasoft (starting at Metasoft 3.X)
V2.00

STEP I Setting up the hardware

1. For controlling the workload by the Metasoft Software you will need the RS-232 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 RxD
5 GND	----------	5 GND

2. With the same cable you will establish the communication between the built-in Lode NIBP (Bloodpressure monitor) in the ergometer and your stress system.
3. Connect the RS232 cable to the ergometer *(see picture 1).*
4. Connect the RS232 cable to the computer with the Metasoft-Software *(see picture 2).* You need to have a license number for “ergometer control” from Cortex! It is recommended to connect the cable to the free serial com-port of the computer. If you do not have a free serial com-port, you can use an USB-to-serial converter. We advise to use a USB Hub from Edgeport.

STEP II Setting-up the ergometer

5. Switch on the ergometer
   a. The Corival ergometer is default shipped with the LODE RS232 communication protocol.
   b. You can check and/or change the RS232 by following the procedure below:

- Switch on the ergometer and press enter.
- You will be in the "MAIN MENU"
- 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 PROTOCOL" and press enter.
- Save the selected RS232 protocol.
- Switch off the ergometer.

6. For controlling the ergometer by the Metasoft Software, the ergometer should be set in "TERMINAL" mode. The "TERMINAL" mode should be selected as follows. After switching the ergometer on, press enter, select "TERMINAL" and press enter again.

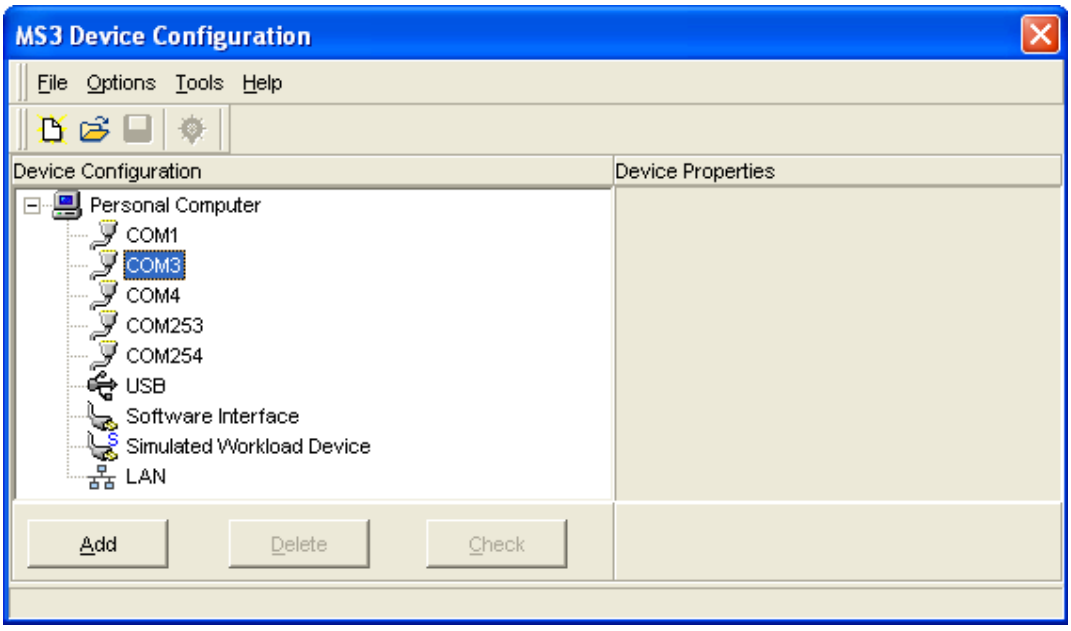
NOTE: You can also let the ergometer start-up in "TERMINAL" mode every time you switch on the ergometer, by using the default start menu. To set up the ergometer for starting up in "TERMINAL" mode proceed as follows:

- Switch on the ergometer and press enter
- You will be in the "MAIN MENU"
- 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"
- Select "TERMINAL " and press enter
- You will be asked to save the changes confirm with "YES"
- If you switch off the ergometer, it will start-up in the "TERMINAL" mode, every time when the ergometer is switched on again

7. The Lode ergometer is now ready for external control

STEP III Setting up the Cortex Metasoft Software

8. For controlling the Lode ergometer by the software you will have to make a "device configuration" in the Metasoft Software. Take the following steps:
   a. Double click on "MS Device configuration"
   b. Assign the Lode ergometer to a free Com-port



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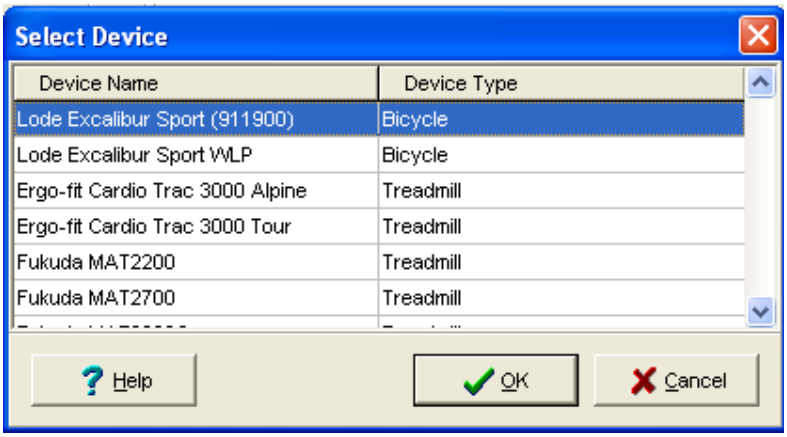
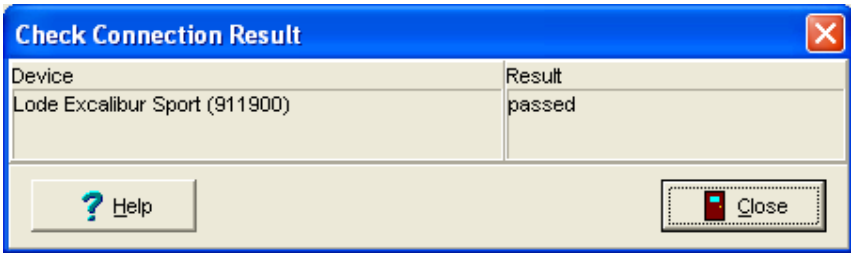


c. You can check the communication by clicking “check” (the ergometer should be in “TERMINAL” Mode



d. Save the device configuration
e. Restart the computer

The system is ready for use.

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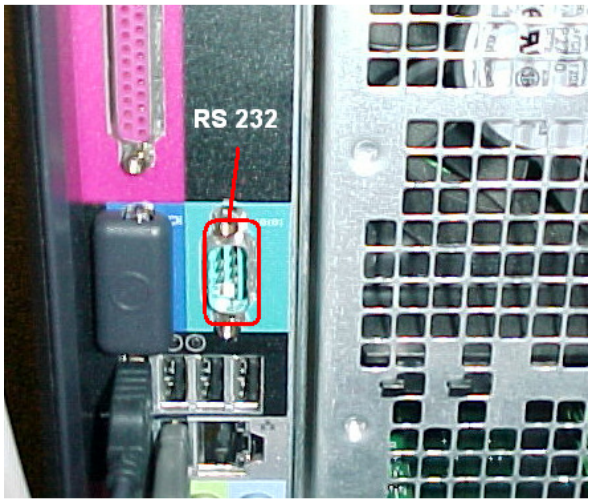
Remarks:

- 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.

Picture 1: Connection to the Ergometer



Picture 2: Connection to the Computer

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