INTERFACE

Lode Ergometer – Cognimed TM Cardio 1000/2000

STEP I **Setting up the hardware**

1. You will need the RS-232 cable (part no. 930911) to establish communication between the Lode ergometer and your stress system. 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. Connect the RS232 cable to the ergometer *(see picture 1).*
3. Connect the RS232 cable to the Cognimed Preamp *(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
   You can 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 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 Cognimed TM Cardio 1000/2000, 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

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- 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

STEP III Setting up the Cognimed

6. The Cognimed Preamps are factory preinstalled and Ergometer model and RS232 settings can only be changed by authorised service personnel.

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 Cognimed Preamp

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