INTERFACE

Lode ergometer – GE MAC 1200 ST

STEP I **Setting up the hardware**

1. You will need the RS-232 cable (part no.930912) to establish communication between the Lode ergometer and the MAC 1200 ST , The lay-out of the cable is as follows:

Straight RS232 cable 930912		
D-con 9 pin female		D-con 9 pin male
2 RxD	----------	2 RxD
3 TxD	----------	3 TxD
5 GND	----------	5 GND

2. Connect the RS232 cable to the MAC-1200 ST stress system *(see picture 2).*

STEP II **Setting up the ergometer**

3. Switch on the ergometer

   The Corival ergometer is default shipped with the LODE RS232 communication protocol which is the correct Protocol You can change it 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
   - Select, by using the up/down keys, the menu "RS232 PROTOCOL" and press enter
   - Select, by using the up/down keys, the "**Ergoline P10 "**protocol and press enter.
   - Save the selected RS232
   - Switch off the ergometer.

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4. For controlling the ergometer by the **MAC 1200 ST-ECG** 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 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.

5. The Lode ergometer is now ready for external control

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STEP III Setting up the MAC-1200 ST

6. Switch on the ECG monitor
7. Select config
8. Select communication and press enter.
9. Select baudrate 4800 and press enter
10. Select ergometer/treadmill and select other
11. Now select Ergoline 900 out of the list and press enter.
12. And save setup to system by using the configure button.

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

Picture 1

Picture 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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