INTERFACE
Lode cycle ergometer – BTL-08 ECG

Interface sheet version V1.00

STEP I Setting up the hardware

1. For controlling the ergometer by the **BTL-08 ECG SYSTEM** you need an **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 RxD
5 GND	----------	5 GND

2. Connect the RS232 cable to the ergometer *(see figure 1)*.
3. Connect the RS232 cable from the ergometer to the computer of the **BTL-08 ECG SYSTEM** *(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 protocol but when it is not set to the default protocol. 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 "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" protocol and press enter or press default.
   - Save the selected RS232 protocol.
   - Switch off the ergometer.

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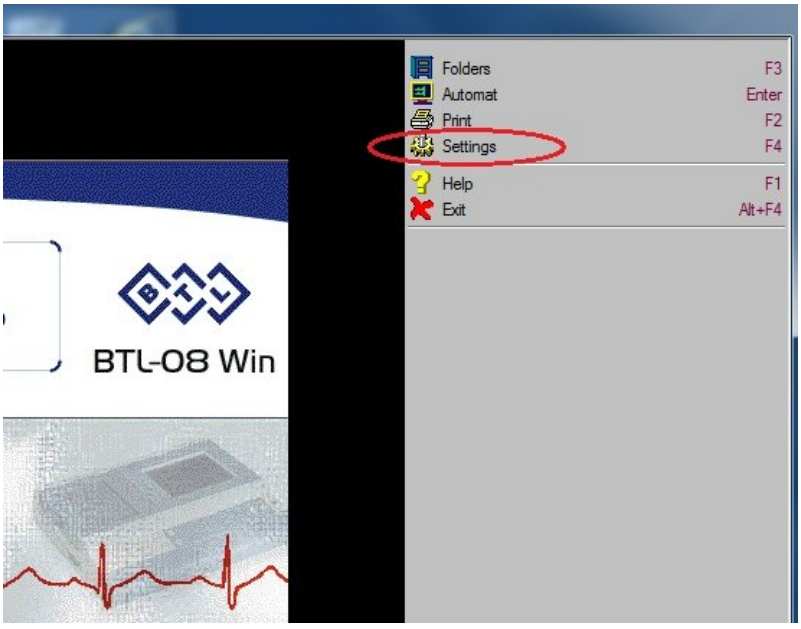
5. For controlling the ergometer by the **BTL-08 ECG SYSTEM** the ergometer should be set in "TERMINAL" mode. The "TERMINAL" mode should be selected as follows. After switching the ergometer on press enter, and select "TERMINAL" and press enter again

   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.
   - 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 BTL-08 ECG SYSTEM

6. The Lode ergometer is now ready for external control. Start the BTL-08 software; select setting from the right upper corner of the mainscreen.



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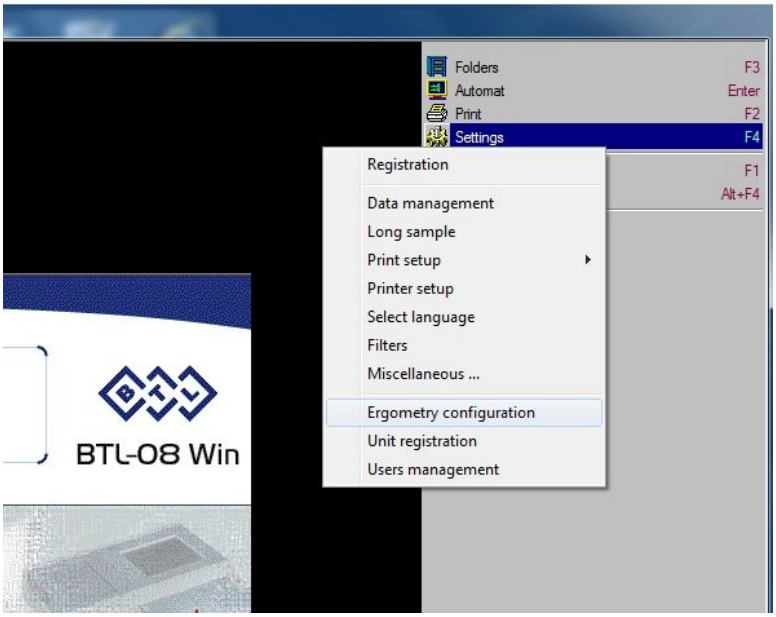
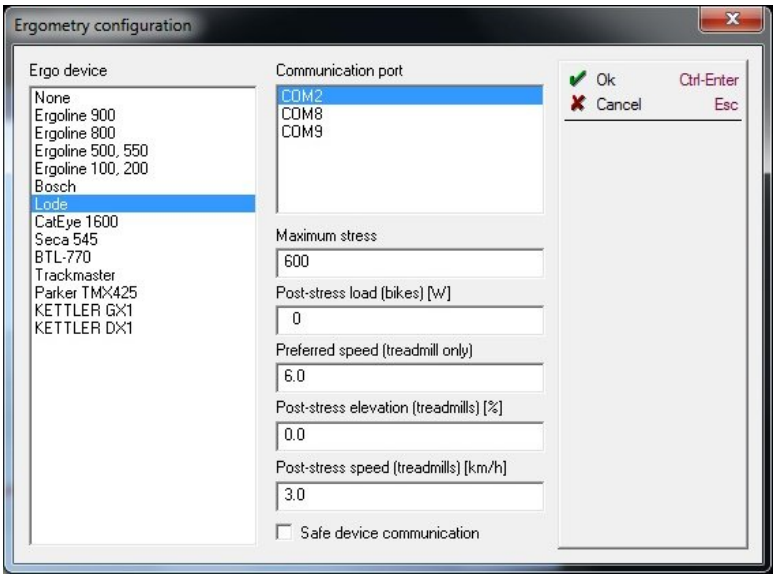
The following menu will appear,



Select the “Ergometer configuration” menu and from there, choose “Lode” from the list and press Ok to submit.



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

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Pictures

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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