# INTERFACE
## Lode Ergometer – Mortara X-Scribe II
## V2.00

**STEP I** **Setting up the hardware**

1. For controlling the ergometer by the **Mortara X-Scribe** 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 **Mortara X-Scribe** *(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 **ERGOLINE P10 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 " **ERGOLINE P10 RS232 protocol**" and press enter.
   - Save the selected RS232 protocol .
   - Switch off the ergometer.

5. For controlling the ergometer by the **Mortara X-Scribe** 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

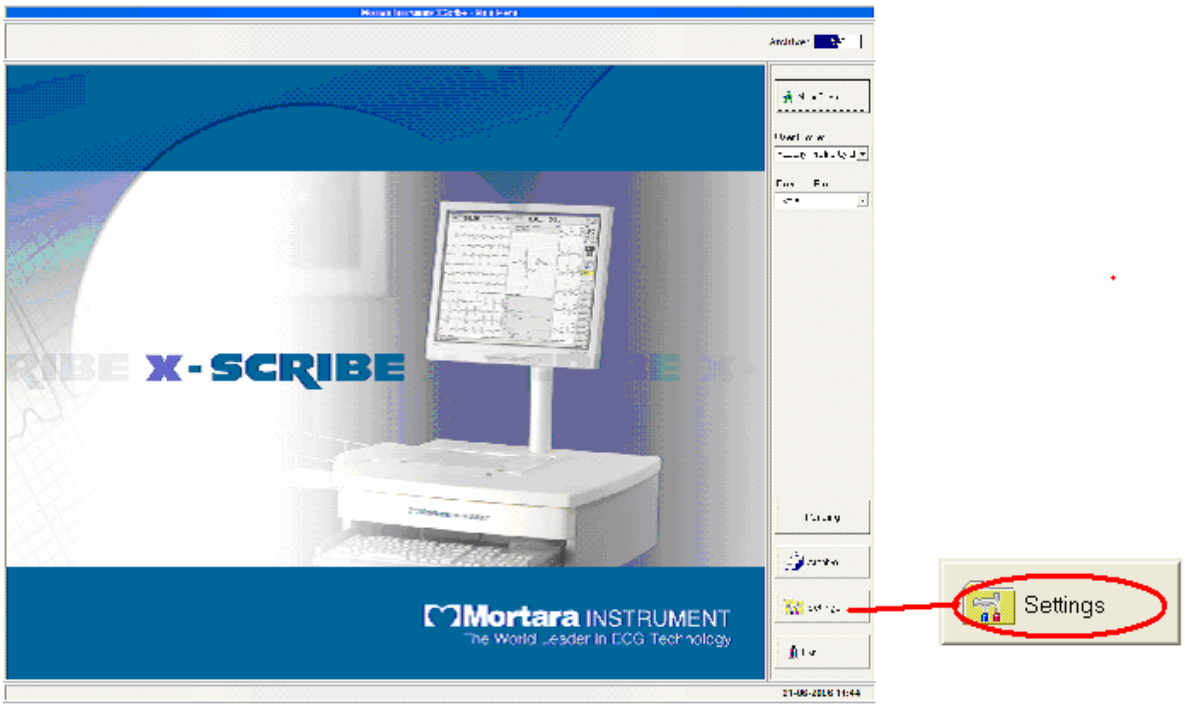
- Press enter to confirm the menu “DEFAULTSTARTMENU” and press enter

If you switch off the ergometer it will start-up in the "**TERMINAL**" mode every time when the ergometer is switched on again.

6. The Lode ergometer is now ready for external control

| **STEP III** | **Setting up the Mortara X-Scribe** |
|---|---|

Switch on the Mortara X-scribe and choose “Settings”



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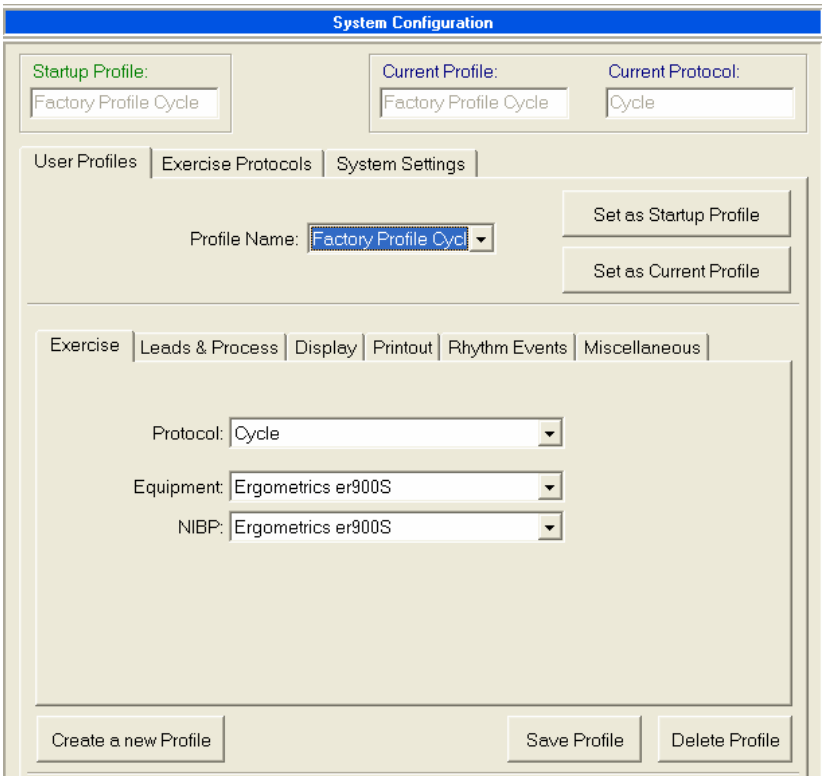
Select for Equipment and NIBP the “Ergometrics er900S” and choose as Protocol the ergometer Protocol (here it is named “Cycle”) Choose an Exercise protocol and press Ok. Now you are able to perform an exercise test.



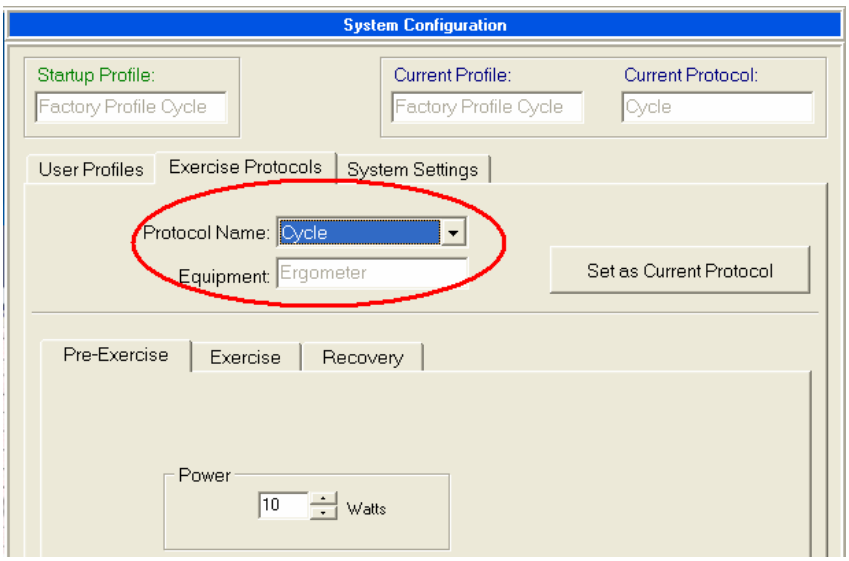



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**Fig 1**

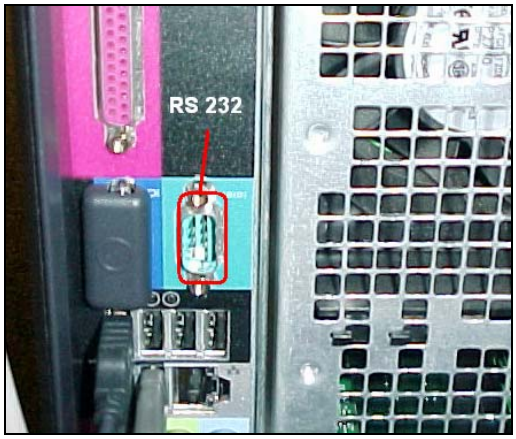


**Fig 2**

*Remarks:*

- The installation procedures of the Lode ergometers Corival, Recumbent, 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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