INTERFACE

Lode Ergometer – Schiller AT-110

V2.00

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 your stress system. The lay-out of the cable is as follows:

Straight RS232 cable 930912		
D-con 9 pin male		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 Schiller AT-110 stress system Ext.1 *(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 SCHILLER 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 "SCHILLER" and press enter.
   - Save the selected RS232 protocol.
   - Switch off the ergometer.

5. For controlling the ergometer by the Schiller AT-110, 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

6. The Lode ergometer is now ready for external control

STEP III Setting up the Schiller AT-110

7. Switch on the ECG monitor
8. Select the “EXERCISE” menu and choose “ERGO DEVICE TYPE”
9. Select Ergo device type “ERGOLINE 900 DIGITAL”
10. Select under NIBP Settings the blood pressure device “ERGOLINE 900D”
11. Save the changes

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

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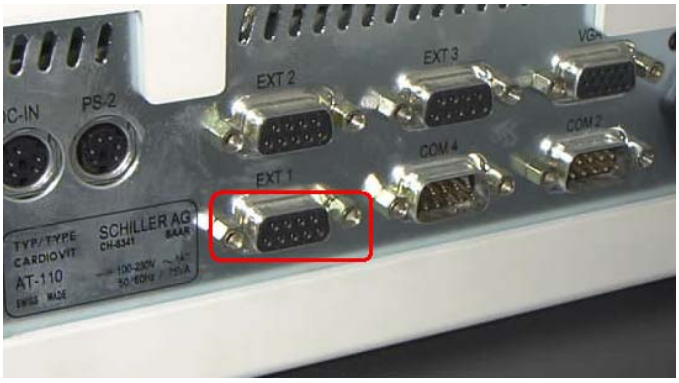
Remarks:

- 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 Lode ergometer



Picture 2 Connection to the AT-110

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