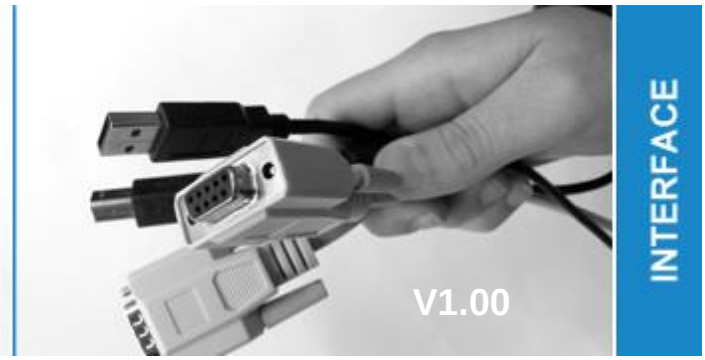
THE STANDARD IN ERGOMETRY

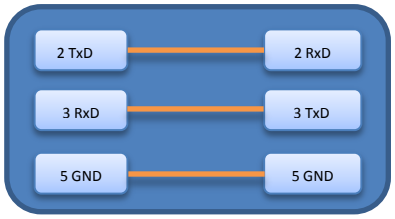
Lode Bicycle – Custodiagnostic Software



Coverages → Connecting cables → Bicycle settings → **Custodiagnostic settings** → Start using Device

Step 1: Setting up the hardware

1. You will need the RS-232 cable (part no. 930911: male-female) to establish communication between the Lode ergometer and your stress system. The lay-out of the cable is as follows:



2. Connect the RS232 cable to the Lode ergometer *(see picture 1).*
3. Connect the RS232 cable to the Computer on which the Custodiagnostic software is installed *(see picture 2).*

Coverages

This interface form covers

- All bicycle ergometers manufactured by Lode B.V. since 2003
- All Custodiagnostic software starting from version 4.3.1 (*for Custodiagnostic software versions < V4.3.1 the lode bicycle ergometer have been used as with the Ergoline P10 communication protocol*)

If your system is not covered by this interface form please contact Lode service service@lode.nl

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Settings Bicycle

To connect the Lode Bicycle ergometer to the Custodiagnostic PC you need a RS232 interface cable. Connect the cable to the RS232 in port of the ergometer. As indicated with RS232 IN (figure 1).

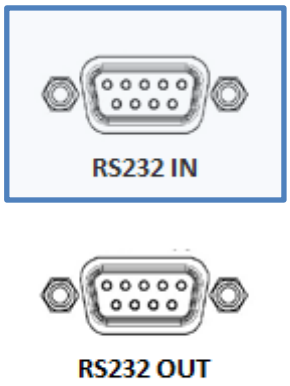

Figure 1

Setup the Bicycle ergometer

The Lode ergometer is default shipped with the LODE RS232 communication protocol. It should be set to “LODE prot 38k4”
If you want to check or change the RS232 settings follow the procedure below:

1. Switch on the ergometer and press enter.
2. Start in the "MAINMENU")[1]
3. Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
4. Select, by using the up/down keys, the menu "SETTINGS" and press enter
5. Select, by using the up/down keys, the menu "RS232 PROT 38K4" and press enter
6. Select, by using the up/down keys, the " LODE " and press enter.
7. Save the selected RS232 protocol.
8. Switch off the ergometer.

For controlling the ergometer by the Custodiagnostic software 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

)[1] If the ergometer is not in “MAINMENU” follow the next steps to get it in “MAINMENU”

- With a standard control unit press and hold the “ENTER” button till you are in “MAINMENU”
- In case a programmable option is installed, press ESCAPE till you see “System parameters, Terminal and Manual” on the display. Than you are in “MAIN MENU”

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Setting up the Customed Stress system

1. Switch on the PC start Custo Diagnostic and Login with your username and password

Figure 2

2. Select Examination “1” and choose settings “2”

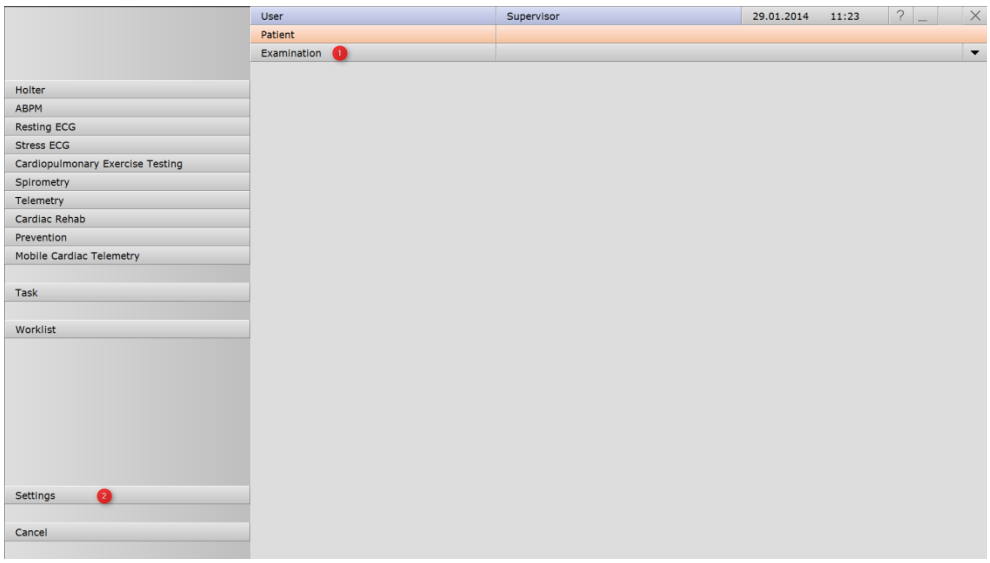

Figure 3

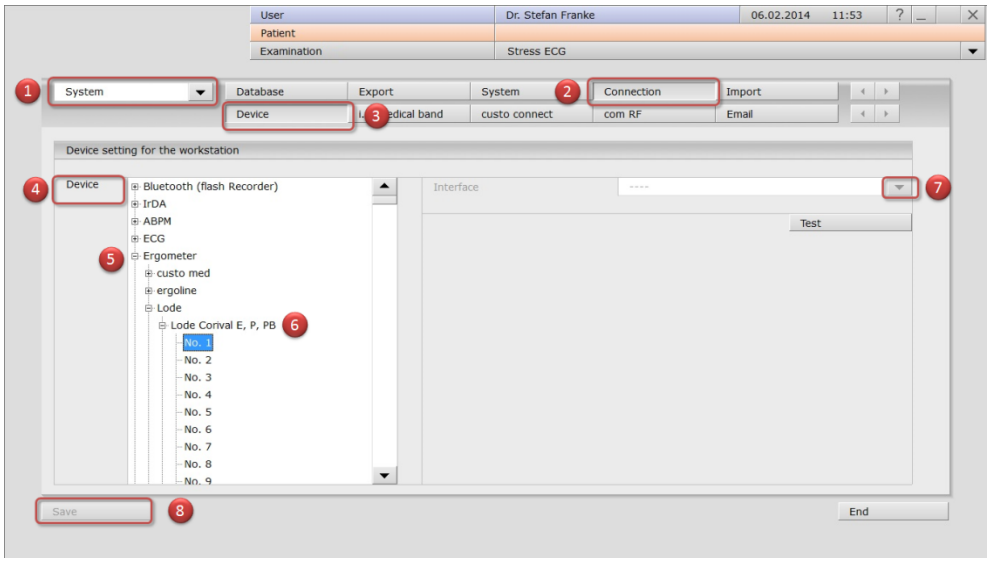

Figure 4

3. Choose “System” to setup the ergometer model.
4. Choose Connection.
5. Now select Device.
6. Choose “Ergometer”.
7. Expand ergometers “Lode”.
8. Select the “Lode Corival E, P, PB” (this can also be selected for other Ergometers from Lode)
9. Select the communication port on which the ergometer is connected, by using the pull down menu.

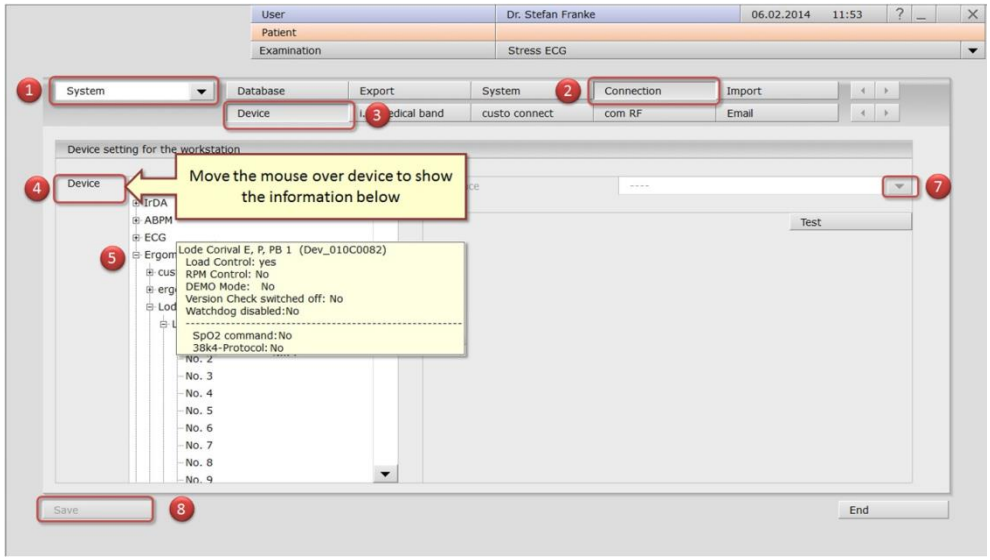

Figure 5

10. If the information in the box for Lode Corival E, P, PB 1 (Dev_010C0082) shows:
    SpO2 command: NO and 38k4-Protocol: No
    These should both be set to: Yes

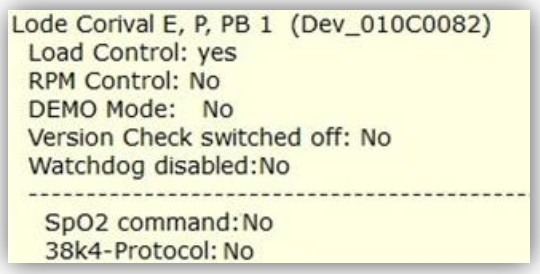

Figure 6

11. To enter the menu where these can be set press “Ctrl – Alt – Shift – e” simultaneously
12. The following screen will pop-up

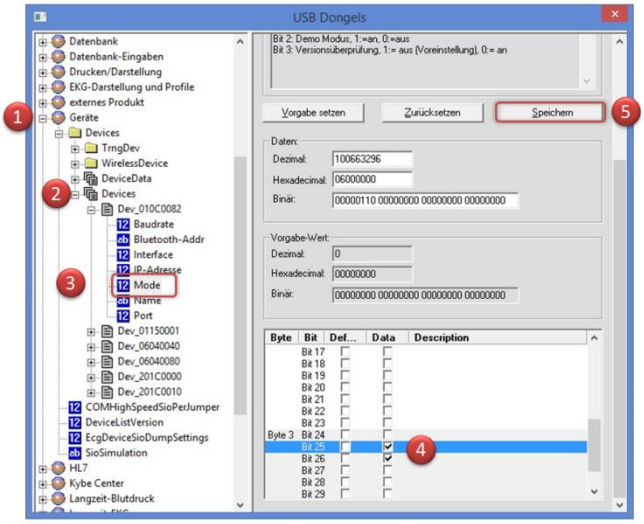

Figure 7

Open “Geräte”

13. Than open “Devices” and choose the right Device, in our case Dev_010C0082
14. Select “Mode”
15. Tag the two tag-Boxes for Data Bit 25 and 26
16. Save the made selection with the “Speichern” button.
17. Restart the Custodiagnostic software (if you want to perform a communication test you can enter the settings menu and press test on the Lode ergometer)

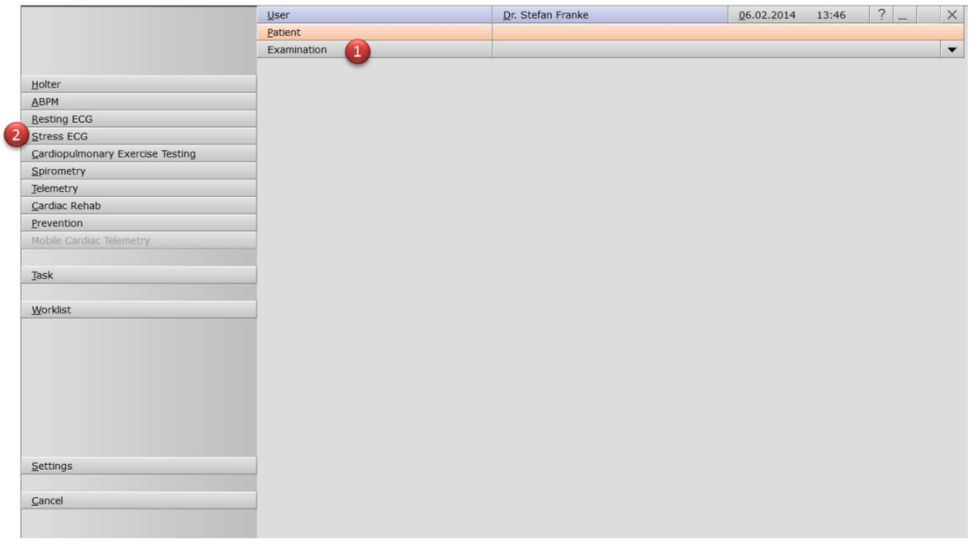

Figure 8

18. Start the Custodiagnostic software and choose “Examination” .
19. Choose “Stress ECG” to perform a stress test

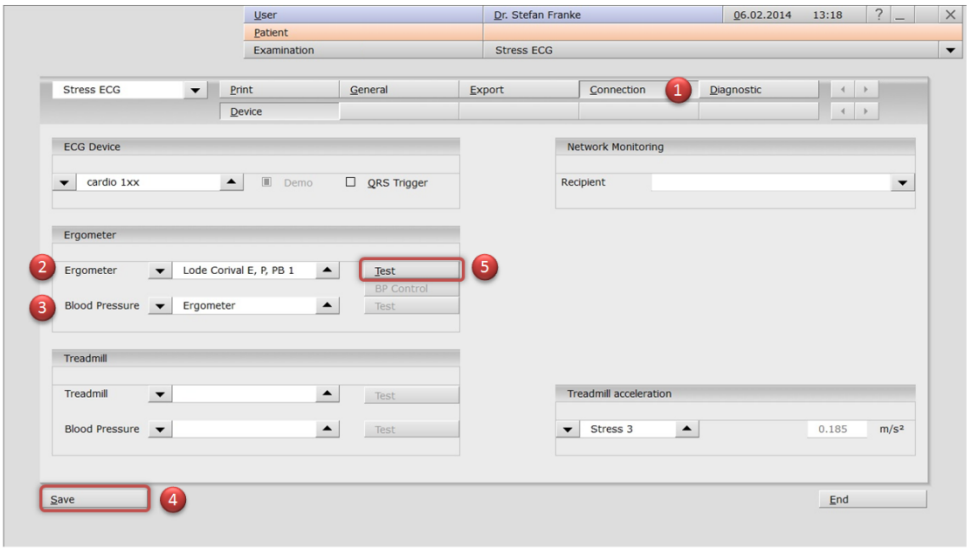

Figure 9

20. Choose “Connection” .
21. Choose for Ergometer “Lode Corival E, P, PB 1”
22. Choose as Blood Pressure in “Ergometer”
23. Save the made changes
24. Press “Test” to perform a communication test.

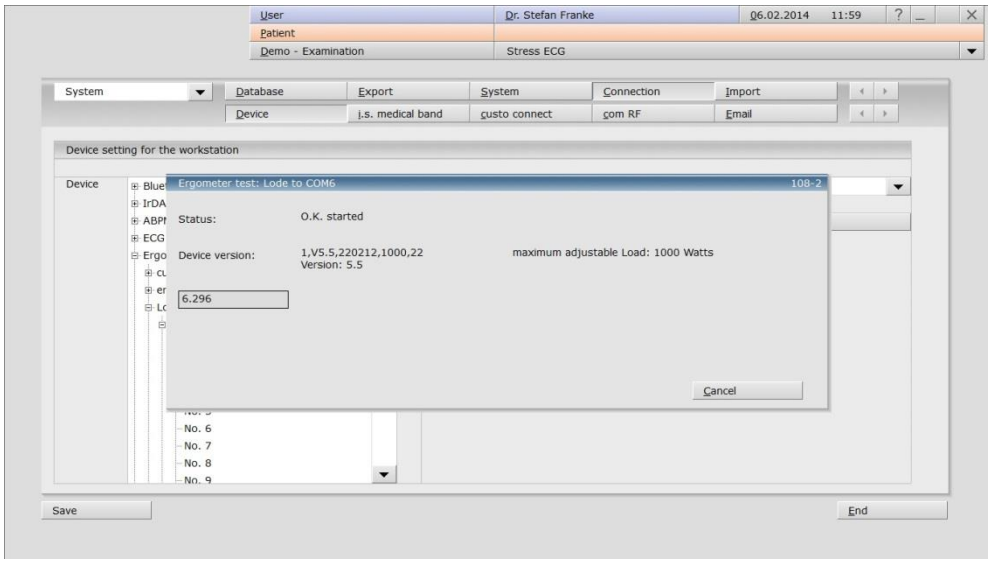

Figure 10

After the test has been perform the Status will show O.K. and the maximum workload of the ergometer will be show.

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

Lode B.V.
Zernikepark 16
9747 AN Groningen
The Netherlands
Tel: 31(0)50 5712811
Fax: 31(0)50 5716746