INTERFACE

Lode Ergometer – MedicalGraphics Breeze

STEP I **Setting up the hardware**

1. For controlling the ergometer by the Computer on which the **Breeze software** is installed you need a **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 TxD
5 GND	----------	5 GND

2. Connect the RS232 cable to the ergometer *(see picture 1).*
3. Connect the RS232 cable to the computers available COM port *(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 RS232 protocol**
   If necessary 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 " **Lode RS232 protocol**" and press enter.
   - Save the selected RS232 protocol or restore the default RS232 protocol, which is also the LODE PROTOCOL.
   - Switch off the ergometer.

5. For controlling the ergometer by the Computer on which the **Breeze software** is installed 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.

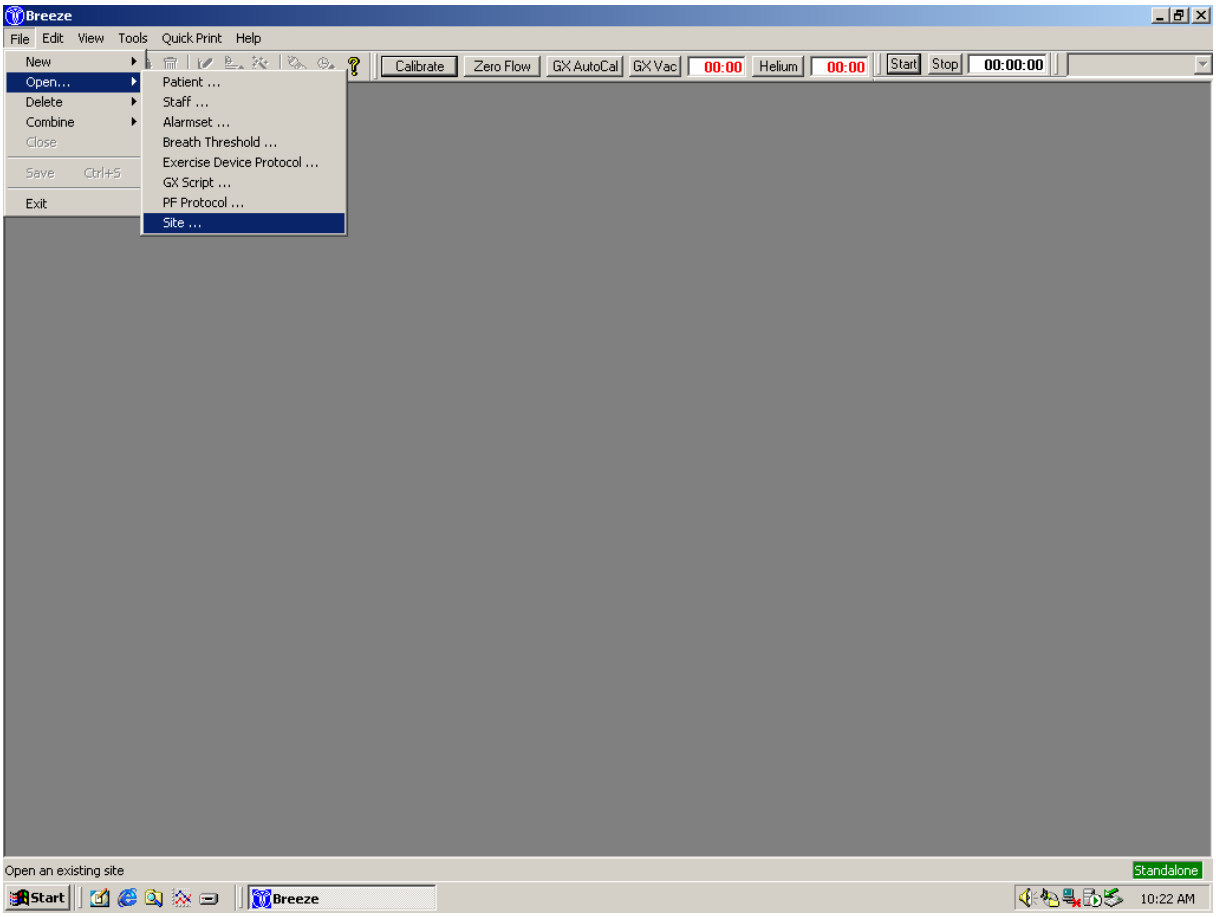
   NOTE: You can also let the ergometer startup in "**TERMINAL**" mode every time you switch on the ergometer, by using the default start menu. To set up the ergometer for starting up in "**TERMINAL**" mode proceed as follows:
   - Switch on the ergometer and press enter.
   - You will be in the "MAINMENU"

- 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

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 MedicalGraphics Breeze system**



From the main screen go to File, Open and select Site.

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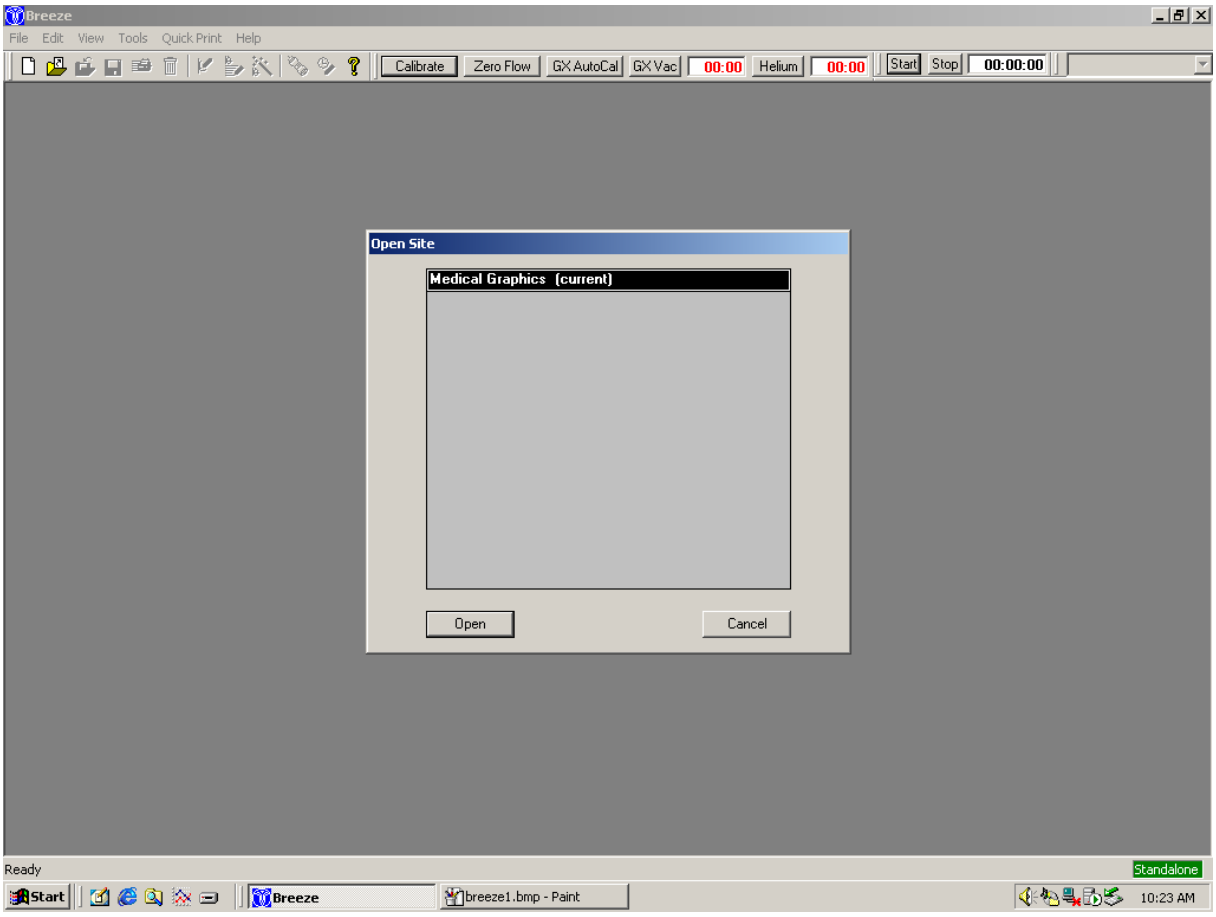
The following screen will appear and select the "current" site computer name.



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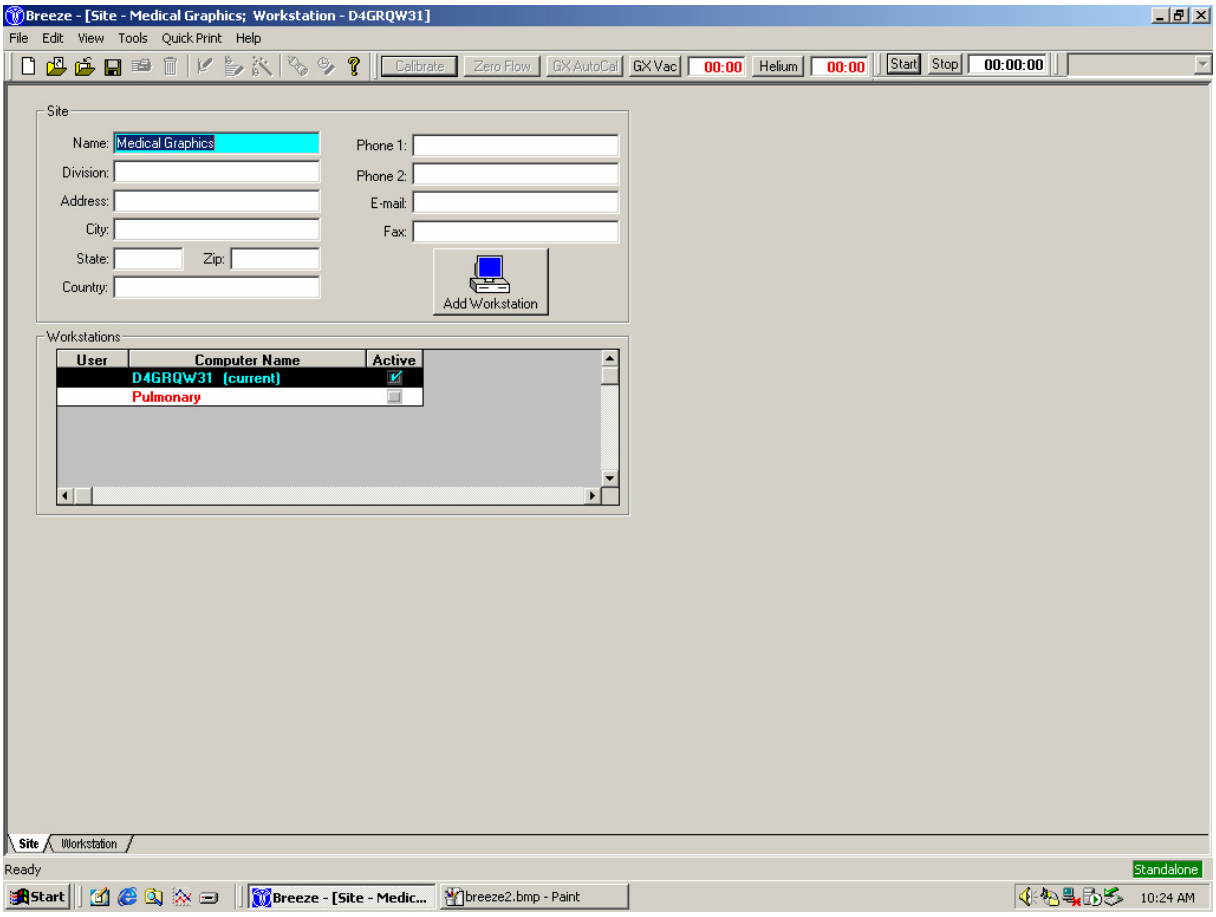
With the current site open, select the "workstation" tab at the bottom of the page.



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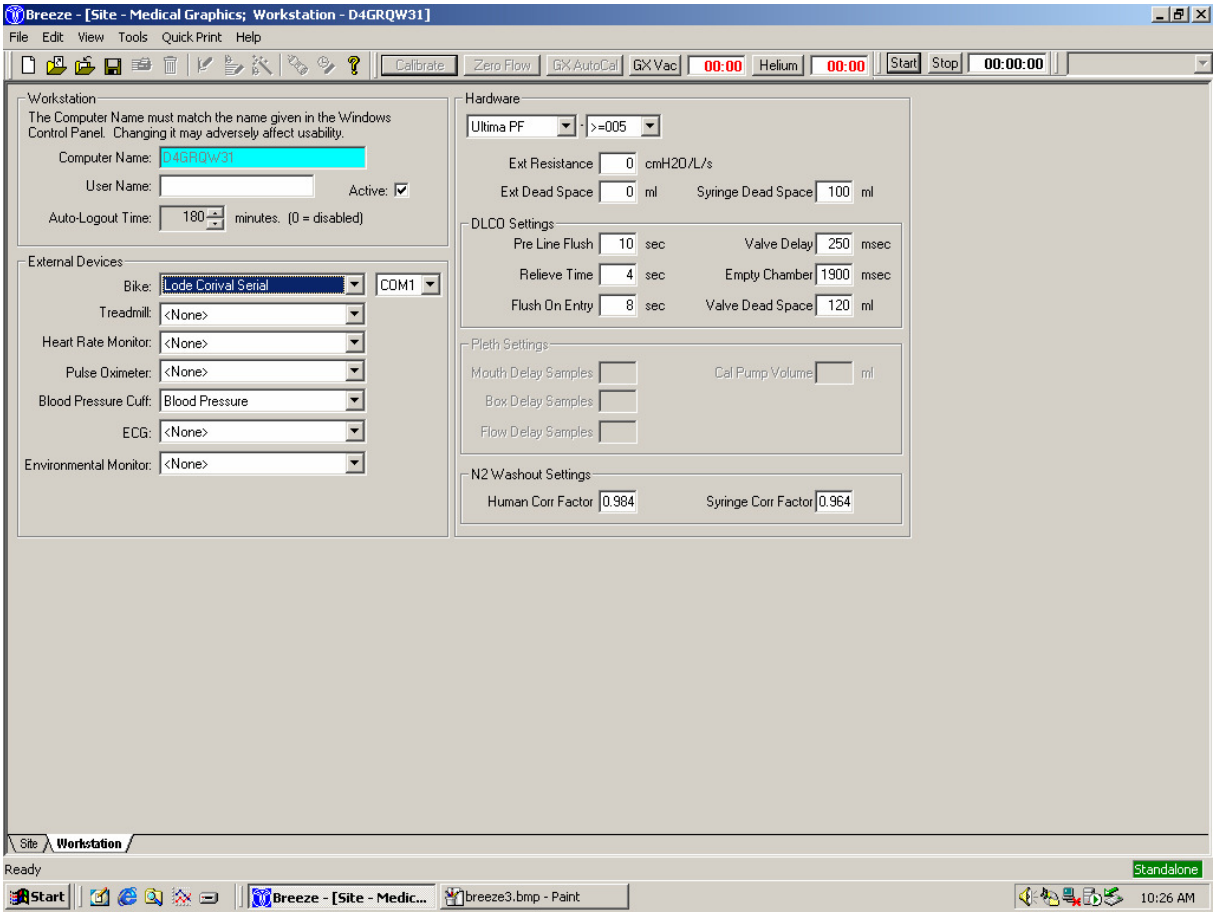
Lode Ergometer – MedicalGraphics Breeze

Select the proper Lode serial device from the "external devices" list on the left side of the page. The corresponding "COM" port will need to be selected as well.
Store the changes.



the standard in Ergometry

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Restart the ergometer and the Computer on which the Breeze software is installed and then your system is ready to be used.

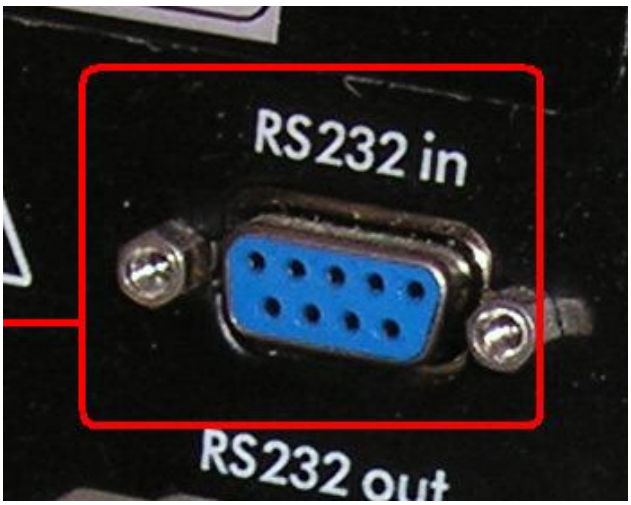

Figure 1

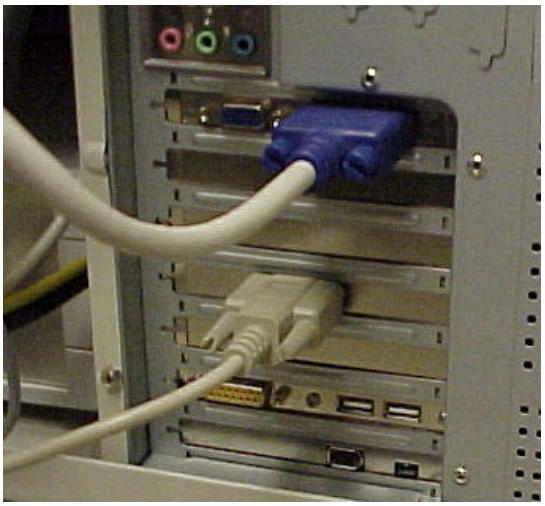

Figure 2

The installation of other Lode serial devices is performed the same way. Please make sure you select the correct device from the external device list. I.E Corival, Rehcor, Excalibur.

Note: Angio uses the same device selection as the Corival.

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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