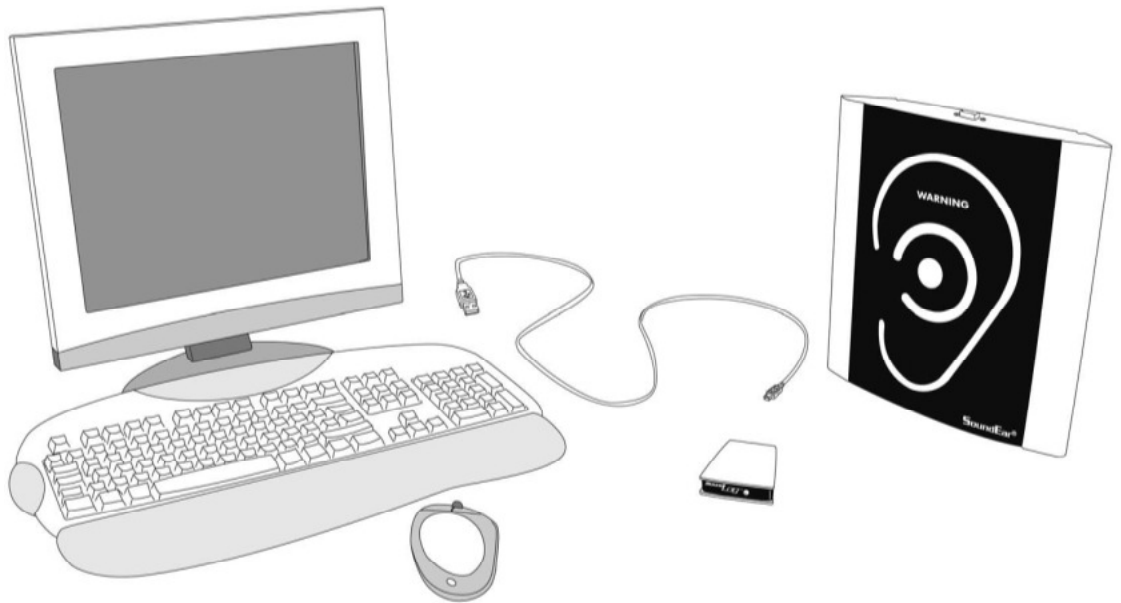


# SoundLOG

ENGLISH MANUAL

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## SOUNDLOG CLASSIC



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## SOUNDLOG II



## CONGRATULATIONS ON YOUR NEW SoundLog

We are pleased that you have chosen one of our products. For maximum product performance, please study these directions for use.

Keep these directions for use ready at hand.

For any questions or comments, please contact us on mail: [soundear@soundear.dk](mailto:soundear@soundear.dk).

Yours sincerely,  
SoundEar A/S

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# INTRODUCTION

## TECHNICAL INFORMATION

SoundEar® measures sound pressure as

a noise filter according to IEC graph A.

SoundLog collects 256 measurement values

The square root of each measurement value is then calculated and divided by 256.

The mean value is then stored in SoundLog's data store, equal to around 4 weeks uninterrupted recording.

Frequency area: 20-16.000 Hz

Accuracy +/- 1 dB(A)

Dynamic area: 48 dB(A)

SoundEar's own noise: 32 dB(A)

## OPERATING SYSTEM REQUIREMENTS

The NET Framework is supported on the following platforms.

Operating System: Microsoft® Windows® 98

Microsoft® Windows® 98 Second Edition

Microsoft® Windows® Millennium Edition

Microsoft® Windows NT® 4.0 Workstation with Service Pack 6.0a or later

Microsoft® Windows NT® 4.0 Server with Service Pack 6.0a or later

Microsoft® Windows® 2000 Professional

Microsoft® Windows® 2000 Server

Microsoft® Windows® 2000 Advanced Server

Microsoft® Windows® XP Home Edition

Microsoft® Windows® XP Professional

Microsoft® Windows® Vista

Microsoft® Windows® 7

Microsoft® Windows® 8

**Note:** On all these systems, Microsoft® Internet Explorer 5.01 or later and Microsoft® Windows® Installer 2.0 or later is also required.

## HARDWARE REQUIREMENTS

Scenario Client: (Windows Forms and Windows Services)

Required Processor: Pentium 90 MHz\*

Recommended Processor: Pentium 90 MHz or faster

Required RAM: 32 MB\*

Recommended RAM: 96 MB or higher

\*Or the minimum required by the operating system, whichever is higher.

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## **WHAT IS SOUNDLOG?**

SoundLog is SoundEarII®'s logbook. SoundLog consists of a Log module with a connector in each end, a 10 pole connector and a USB connector. You connect the 10 pole connector to your SoundEarII® where it saves the measurement made by the SoundEarII® for up to 4 weeks. You then transfer the data from the SoundLog Module to the computer by taking the module and connecting it to a USB port on your computer. By using the SoundLog software, you then transfer the data to your computer where you can see the measurements for up to 4 weeks at a time on a ready-to-print graph.

**NOTE:** Each time you connect the module to the SoundEarII® you reset the data on the module so remember to save the data on your computer before reconnecting the module to the SoundEarII®. Remember – SoundLog measures 30 dB(A) above and 18 dB(A) below the SoundEar®'s reference point.

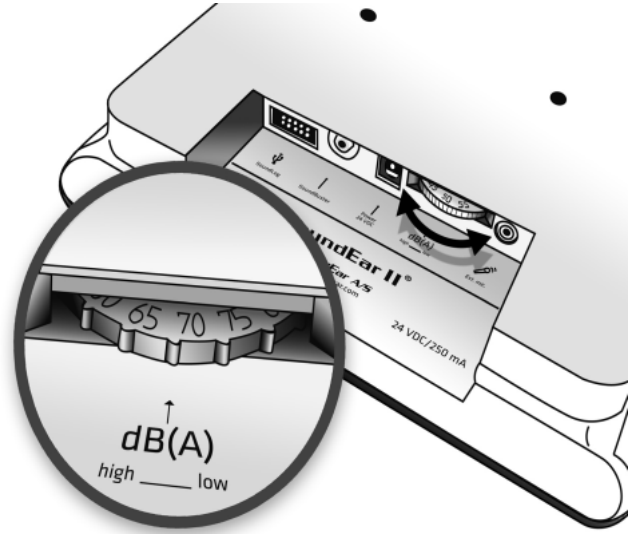
**ADVANCED USERS:** SoundLog measures the noise level every second and records the average measurement every 1 minute. For more information about the method of measurement etc., please see in the beginning of this manual.

# GETTING STARTED

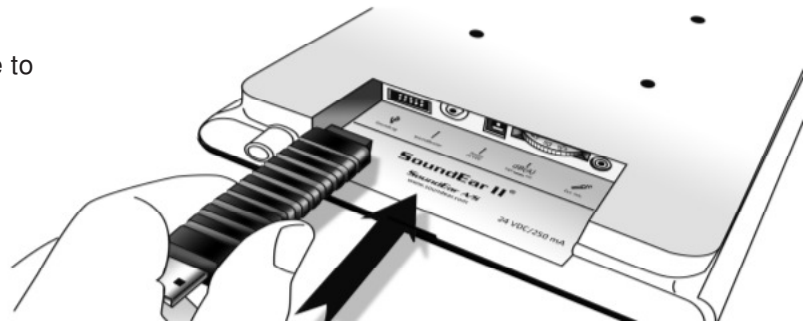
## HOW TO OPERATE THE HARDWARE

1. To get the measurement started you will need to turn the red wheel on the dial on the bottom of your SoundEarII® to that decibel level you would like the measurement to be based on.

SoundLog registers measurements that are 30 decibel above and 18 decibel under this level. In a room that is primarily filled with people-related noise it is a good idea to set the red arrow at 70 decibel. In this way, SoundLog will record all noise between 52 and 100 decibel.



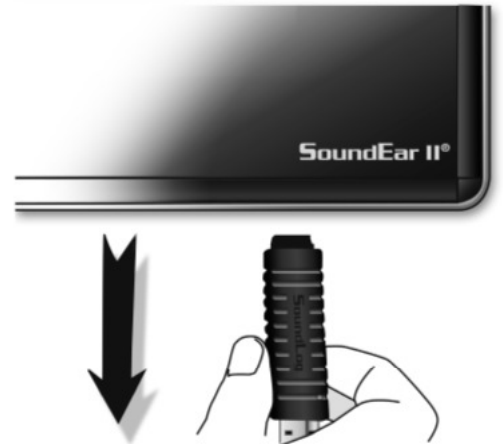
2. Connect the SoundLog module to the SoundEarII®, while SoundEar is still turned off.
3. Switch the power on to the SoundEar®



4. Check that the green light on the SoundLog Module is turned on; this shows that the SoundLog has started recording the noise measurements in the room.
5. Leave SoundEarII® and SoundLog switched on for as long as you want to record the sound level (max 4 weeks). Please note that you will lose all recorded data if the SoundEarII® is turned off and switched on again without removing the SoundLog first.



6. When you are ready to end the SoundLog's logbook recording (after max. 4 weeks), switch the SoundEar® off and remove the SoundLog. Note the time at which you switched the device off, as you will need to enter this information into the computer program when you import the recording.



7. Connect the SoundLog module to your computer to import the measured data.



## HOW TO INSTALL THE SOFTWARE

The SoundLog program is the same software platform as the more advanced system, SoundEarPRO.

**Note:** Before you install the SoundLog software, make sure your PC has access to the Internet.

1. Place the SoundLog CD in your computer's CD-drive.
2. An installation wizard will be displayed.
3. When the program shows the SoundLog-front page, press "Next".
4. Then follow the guide.

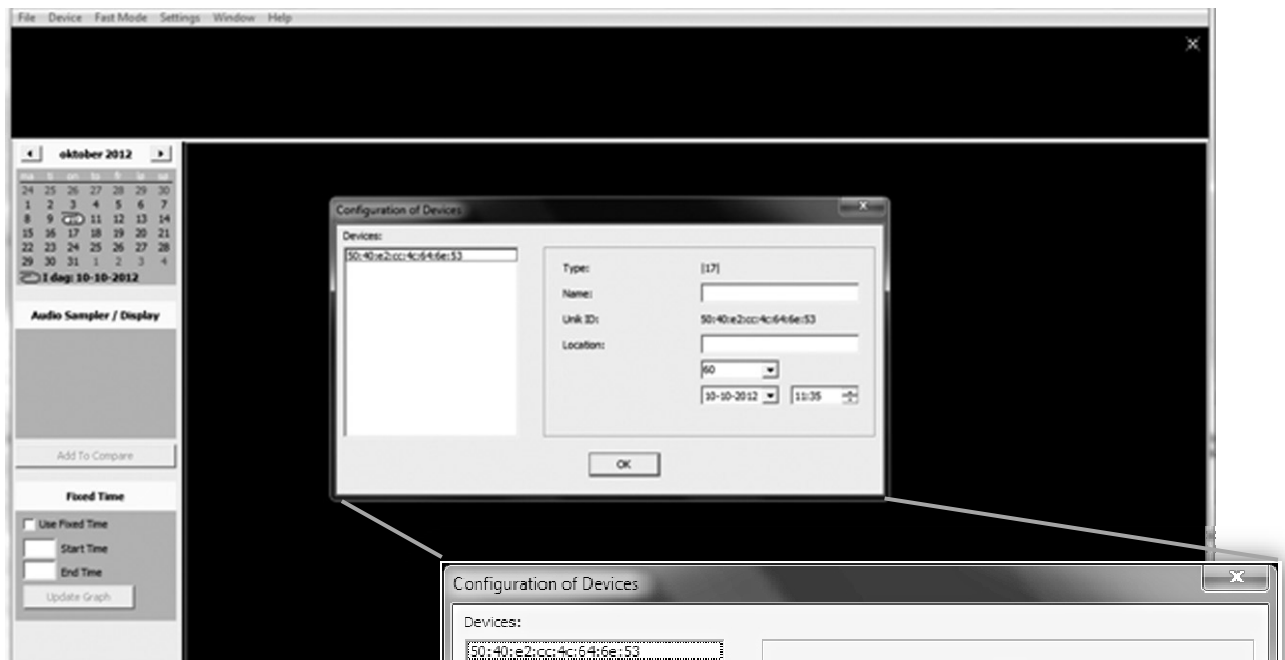
**NB:** If the installation does not start automatically, select:

Start -> Run -> Browse -> (Open the drive with the DVD/CD-ROM) -> setup.exe -> Open -> OK.

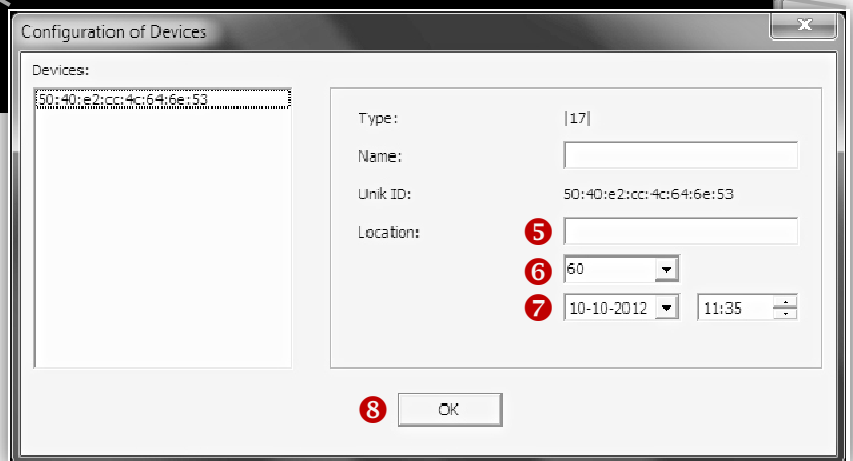
## HOW TO CONNECT THE HARDWARE TO THE SOFTWARE

When the software has been installed, the hardware may be connected.

1. Connect the SoundLog stick to a free USB port.
2. Windows will now install the necessary driver.  
(“New hardware” will show at the bottom left hand side of the screen).
3. Start the SoundLog program.
4. When the SoundLog stick has been found, the dialogue box will be displayed with a unique id number.



5. Start by writing the location.  
(The room where the measurement has taken place).
6. Write the number of decibels the red arrow was pointing at throughout the measurement.
7. Write the date and time when the measurement was stopped.
8. Then press the OK button.





# USER INTERFACE

## MAIN WINDOW

The screenshot shows the main window of the Sound Ear Pro software. The interface includes a menu bar (File, Device, Fast Mode, Settings, Window, Help), two ear icons at the top, a calendar for January 2008, a list of noise meters (PROsampler 1 and 2), and a graph displaying noise levels in dB(A) over time. The graph shows two data series: PROsampler 1 (left) and PROsampler 2 (right). The PROsampler 1 graph has a y-axis from 35 to 100 dB(A) and an x-axis with time markers at 14:11:10, 14:11:20, and 14:11:30. The PROsampler 2 graph has a y-axis from 36 to 74 dB(A) and an x-axis with a time marker at 14:11:30. The current date is 25-01-2008.

Minimizing the program window to "Control View"

Clicking an ear will display metering data graphically (See metering data window).

Choose a date to view historical metering data

Showing the name of the noise meter. Clicking the name will show metering data for the noise meter chosen.

Add data for the chosen day and noise meter to the comparison graph.

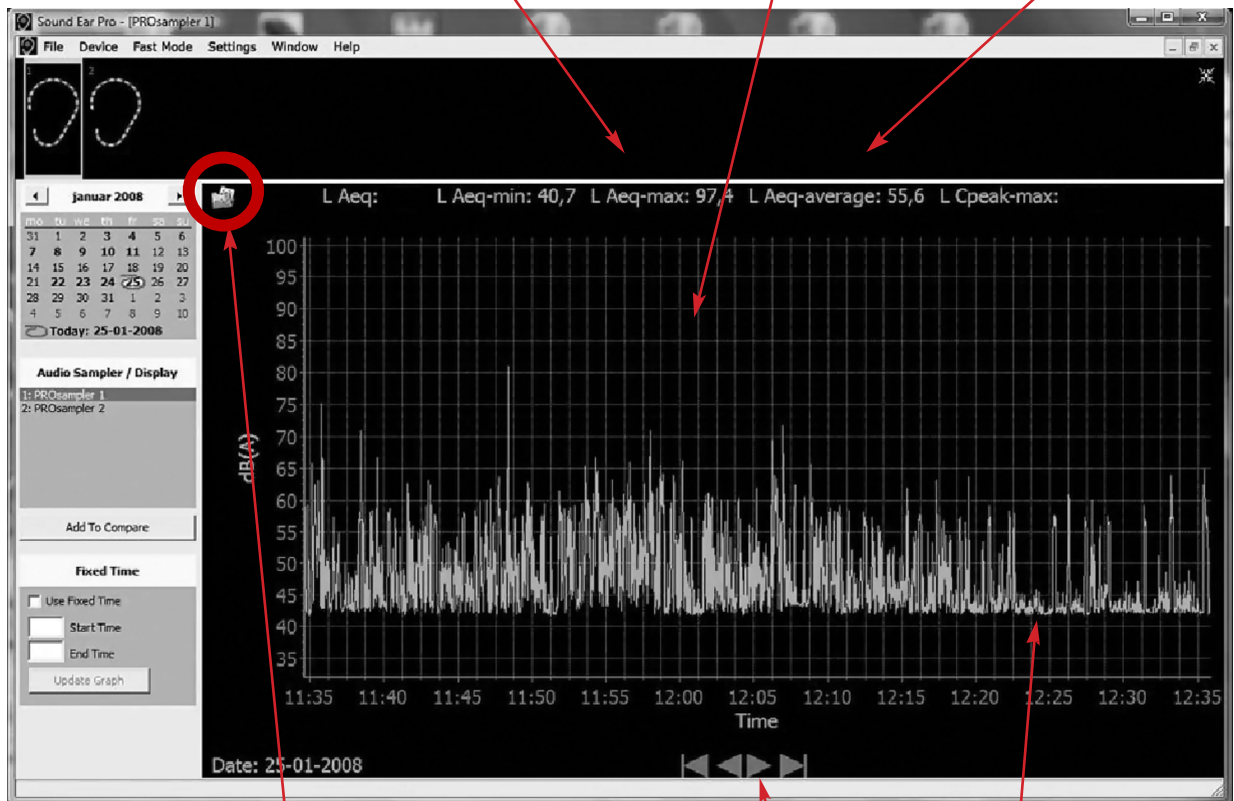
State a fixed start and stop the time for the graph shown.

## MEASURING DATA WINDOW

The values shown (LAeq-min, LAeq-max, LAeq-average) apply for the day chosen.

Export data for the day chosen to an Excel document.

Export the graph shown to a JPEG image file.



Clicking the icon will produce a menu (or right-click your mouse).



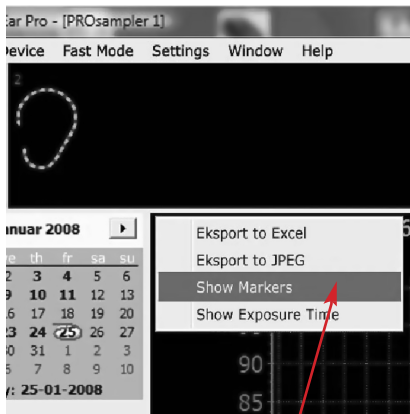
1. Export data for the day chosen to an Excel document.
2. Export the graph chosen to a JPEG image file.
3. Show/hide cursors 1 and 2.
4. Show/hide exposure time.

Move the graph forward or backward in time, or all the way to the start/stop time.

Move the graph forward or backward in time using your mouse:

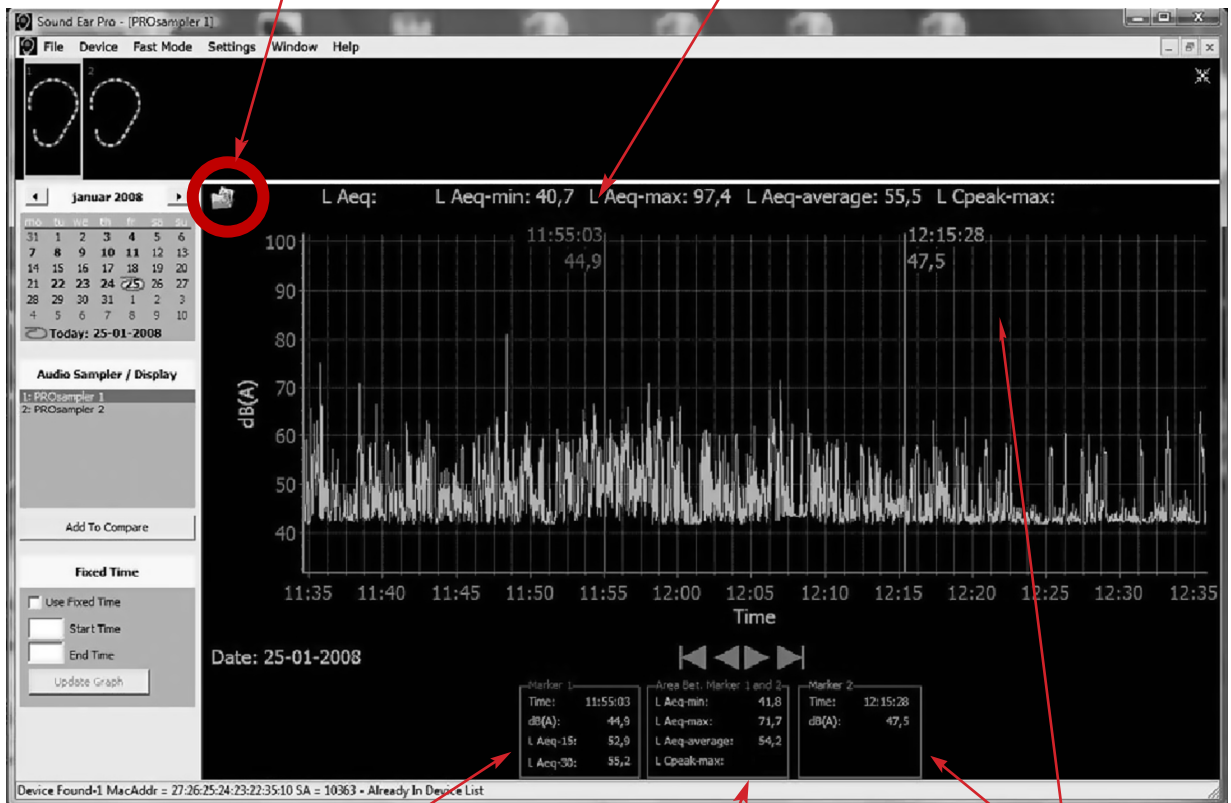
1. Place the mouse icon on the graph.
2. Click your right mouse button and keep it depressed.
3. Move your mouse right/left.
4. Release your mouse button at a random point.

## MEASURING DATA WINDOW WITH CURSORS



The cursor may be placed at any time. Your cursor is moved by:

1. Placing your mouse over the red or blue cursor.
2. Click your left mouse button and keep it depressed.
3. Move your mouse right or left – thus moving the cursor to a new position.
4. Release your mouse button at the position required.



L Aeq-15 and L Aeq-30 have been calculated from the position of the red cursor and 15 and 30 minutes back, respectively.

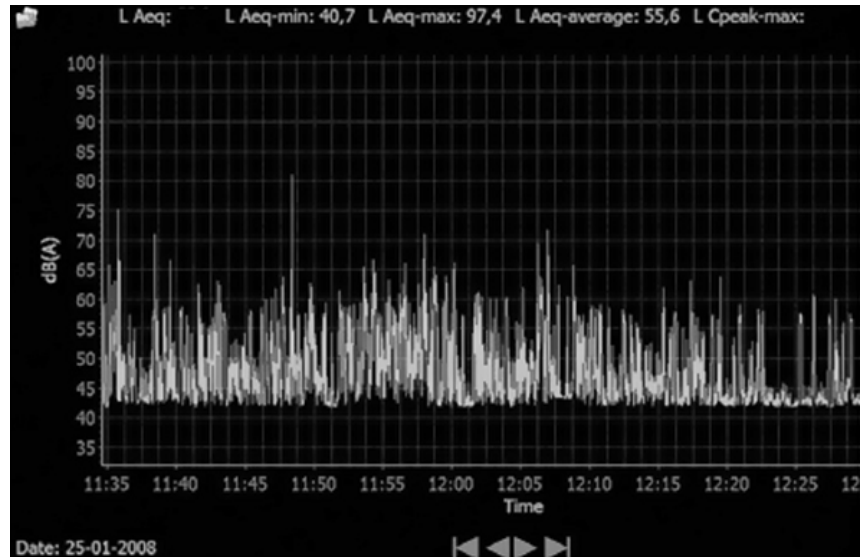
The values shown (L Aeq-min, L Aeq-max, L Aeq-average) apply to the area between the two cursors

Showing the time and dB value on which the cursor has been placed.

## MEASURING DATA WINDOW – ZOOM FUNCTION

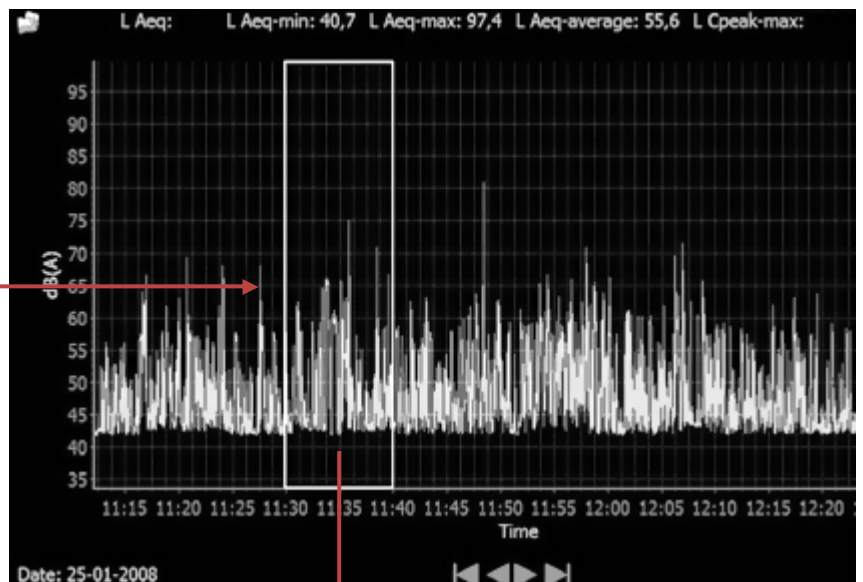
When data is displayed in the graph, you can zoom in on a selected area.

1. Current Display.



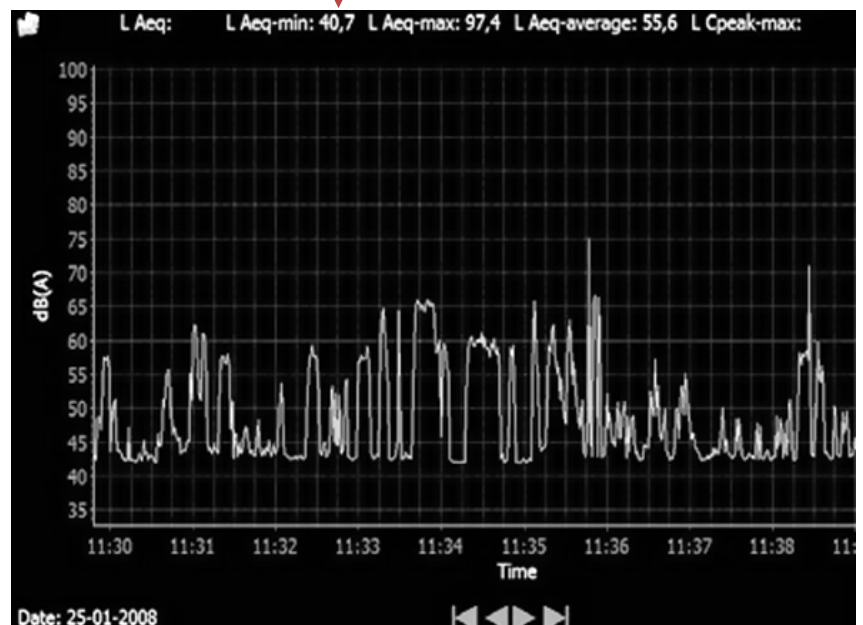
To zoom in on any part of the graph:

2. Place your mouse at any point of the graph.
3. Depress your left mouse button and move your mouse to the **right at the same time**, thus producing a square.
4. Release your mouse button when the area required has been marked.
5. The zoom area is displayed.



To cancel the zoom function:

1. Place your mouse at any point of the graph.
2. Depress your left mouse button and move your mouse to the left at the same time.
3. Release your mouse button when the square is no longer displayed.

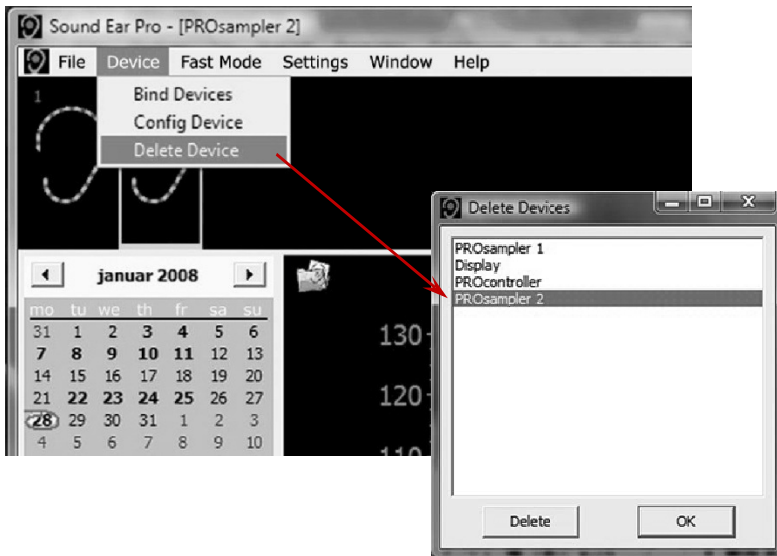


## DELETE DEVICE

If a device is removed permanently from the system, it may be deleted from the program.

Note, however, that

If a SoundLog is deleted, historical data for the particular device can no longer be viewed.

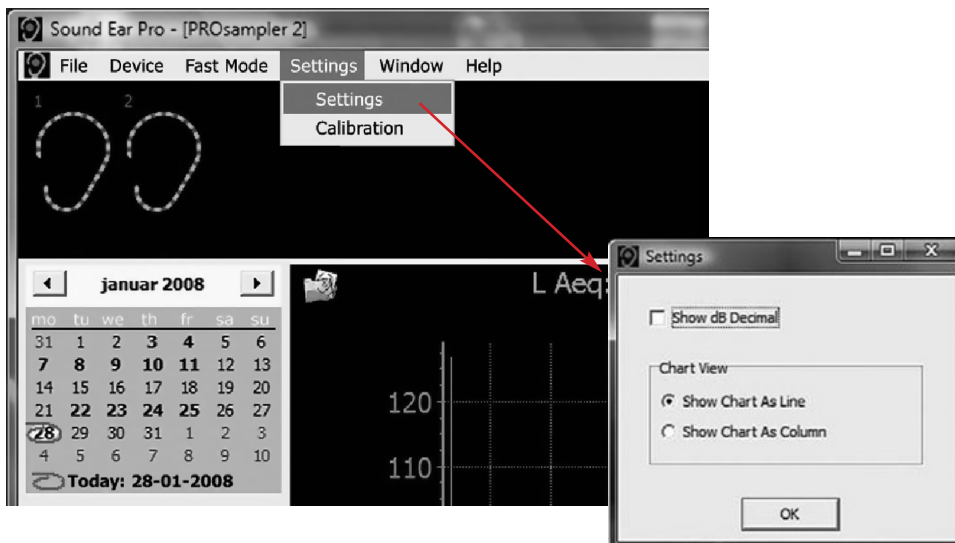


1. Select the device to be deleted.
2. Choose delete.
3. Choose OK when the device in question has been deleted.

## SETTINGS

Under "Settings", the general settings can be adjusted.

Choose Settings – Settings.



Choose whether the particular dB value is to be displayed with or without one decimal.

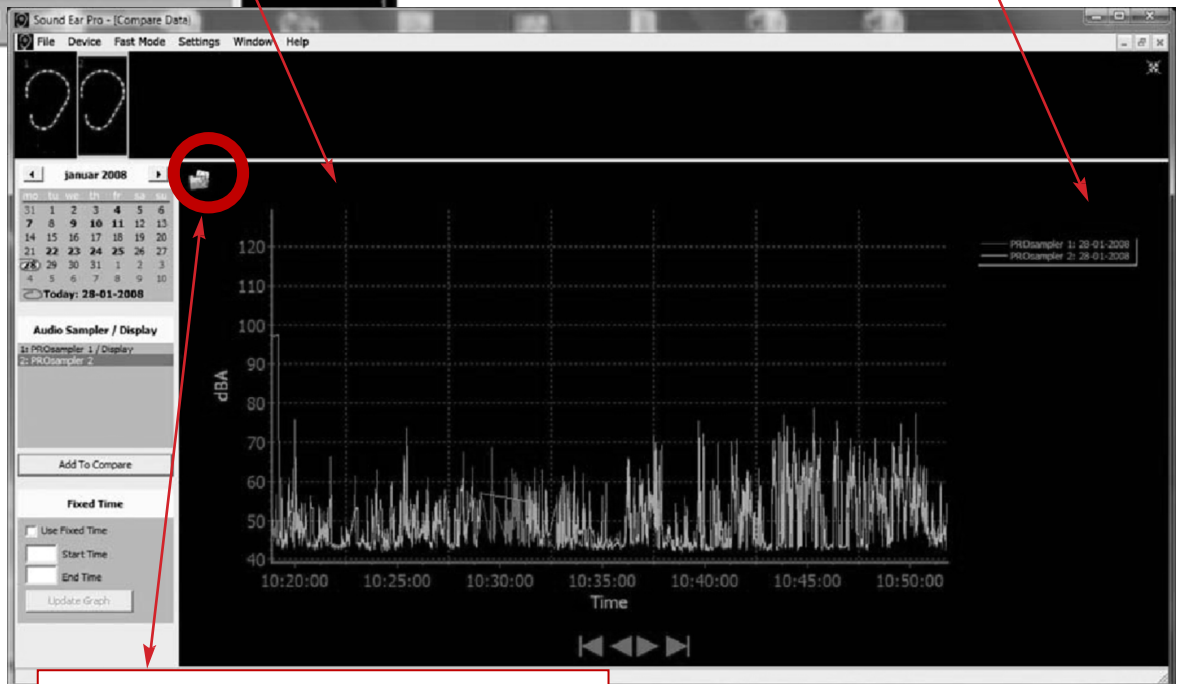
## COMPARISON OF DATA

Using your SoundLog, you may compare data from various meters from various days.



1. Choose a date.
2. Select a device from the list.
3. Click [Add To Compare].
4. Repeat 1. – 3. for other devices or for the same device, but with a different date.

Showing the devices/days added to the comparison graph.  
(Here displaying two samplers on different dates).

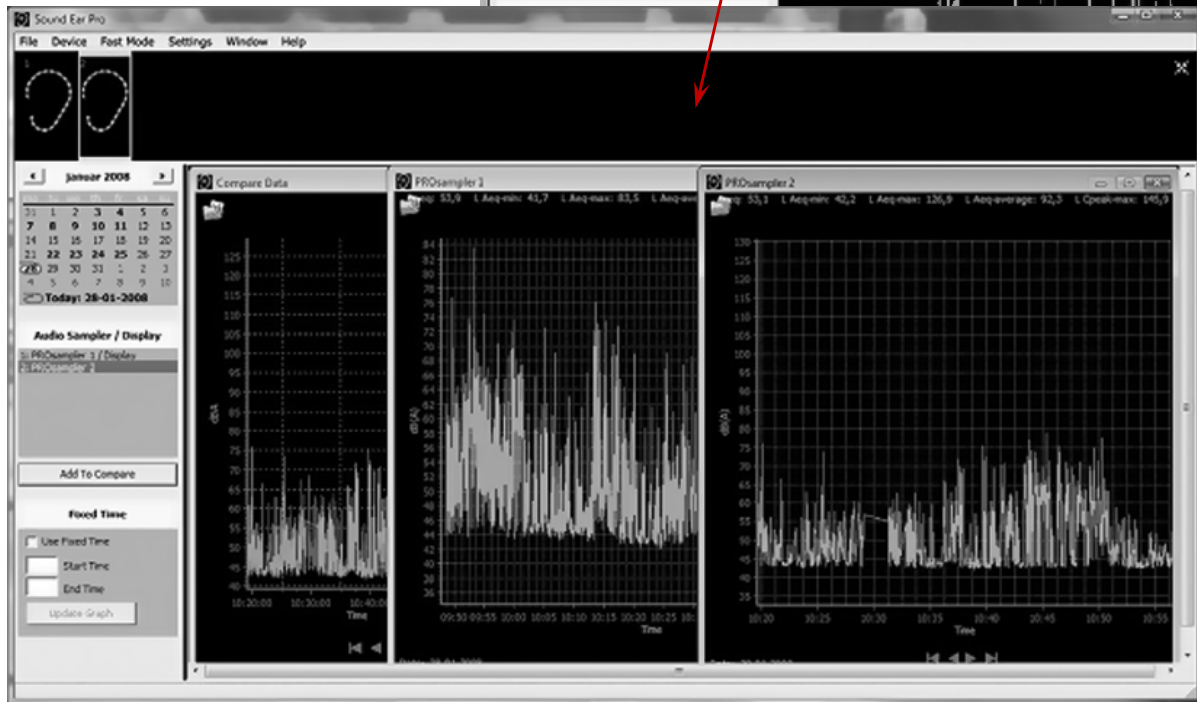
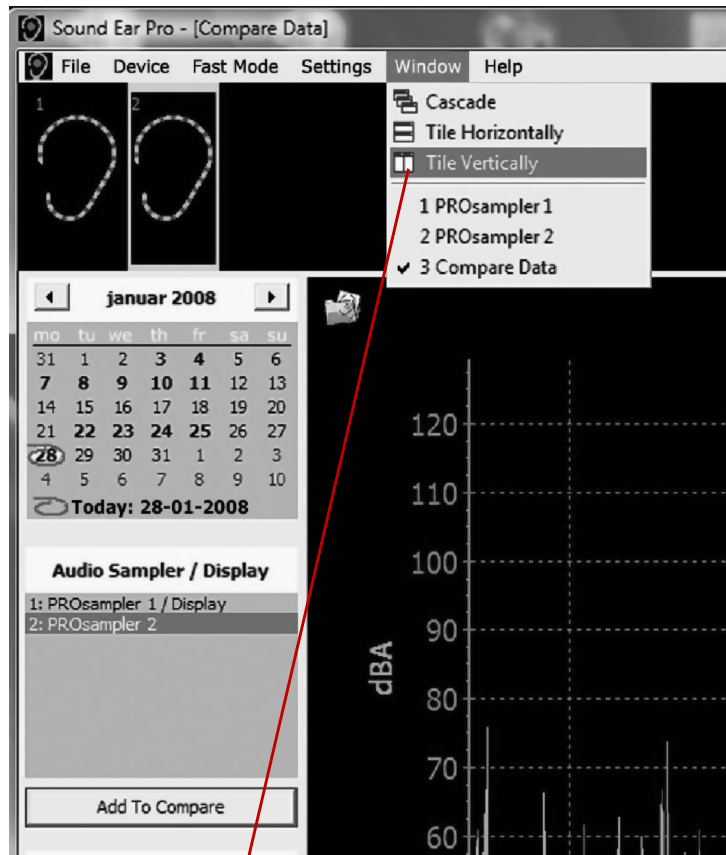


- Clicking on the icon will produce a menu (or right-click your mouse).
1. Export to JPEG
  2. Reset

## SHOW SEVERAL GRAPHS SIMULTANEOUSLY

Several graphs may be shown simultaneously.

1. Click "Window".
2. Select preferred configuration.



## FIXED TIME

Using "Fixed Time", you can choose a time interval to be displayed on the graph.

The screenshot shows the 'Sound Ear Pro - [PROsampler 1]' application window. At the top is a menu bar with 'File', 'Device', 'Fast Mode', 'Settings', 'Window', and 'Help'. Below the menu bar are two ear diagrams. A calendar for 'januar 2008' is visible, with the date '28' highlighted. The 'Audio Sampler / Display' section shows '1: PROsampler 1 / Display' and '2: PROsampler 2'. The 'Fixed Time' section has an unchecked checkbox for 'Use Fixed Time', empty text boxes for 'Start Time' and 'End Time', and an 'Update Graph' button. A red arrow points to the 'Use Fixed Time' checkbox. The main graph area displays 'L Aeq:' with a y-axis labeled 'dB(A)' ranging from 35 to 80 and an x-axis showing time from 09:50 to 10:00. The date 'Date: 28-01-2008' is shown at the bottom of the graph area. The status bar at the bottom left says 'PC Started'.

Select "Used Fixed Time" and type in the interval required.

1. Choose "Use Fixed Time".
2. Type in Start Time, for instance 0900.
3. Type in Stop Time, for instance 1800.
4. Choose "Update Graph".

When a fixed interval on the graph is no longer required, deselect at "Use Fixed Time".

### **Tip:**

*If several meters/graphs are required to be synchronized while new measurements are coming in, a start time may be entered, such as 0900 hours, and a stop time such as 2359 hours. After this, all active graphs will show metering data synchronized with the time.*

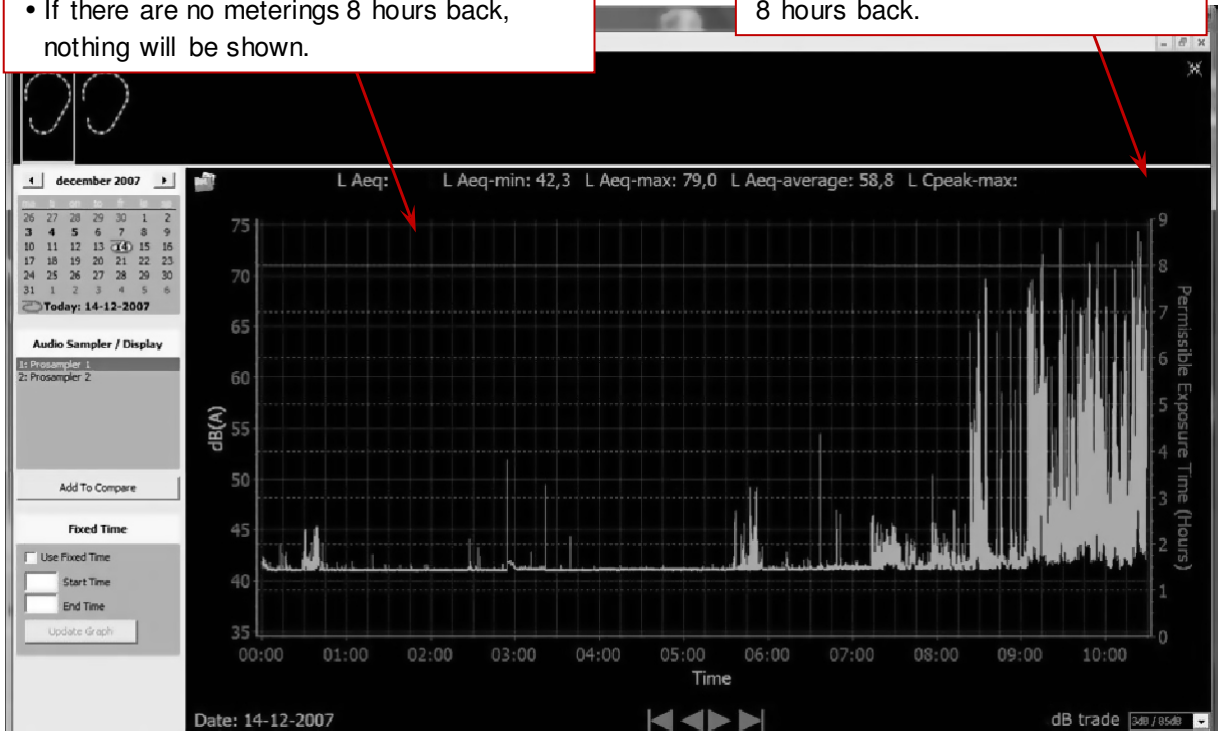


## SHOW PERMISSIBLE EXPOSURE TIME

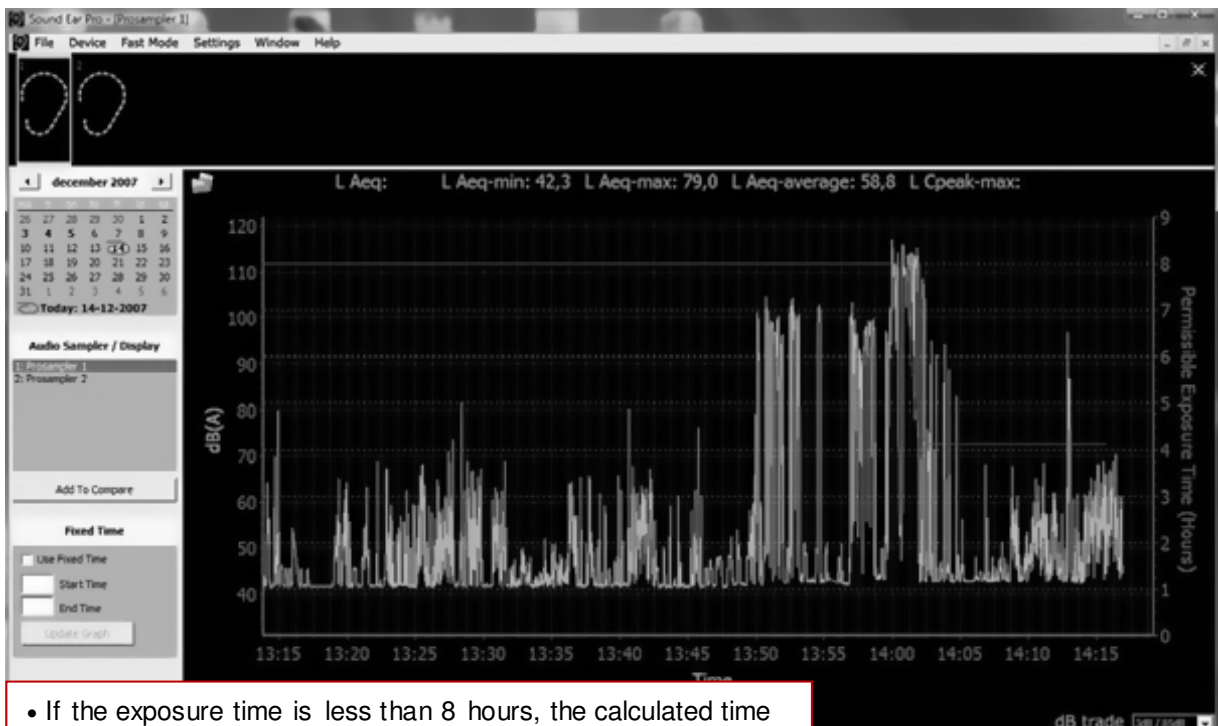
Average noise impact in relation to time.

- If the exposure time is more than 8 hours, this will be shown as a red point.
- If there are no meterings 8 hours back, nothing will be shown.

Show Permissible Exposure Time calculated on the basis of meterings 8 hours back.



Choose from a dB trade of "3dB/85dB" or "3dB/90dB".



- If the exposure time is less than 8 hours, the calculated time will be displayed as a red point.
- If there are no meterings 8 hours back, nothing will be shown.

## EXPORT OF DATA TO MICROSOFT EXCEL

As described above, data for a chosen day may be exported to an Excel file.

When the data is entered in Excel, the first column will have to be formatted to the right time format.

1. Mark the first column.

2. Select Formats cells and select the right time format.

3. Column A will now show time.  
Column B will show LAeq in dB.

	A	B	C	D	E	F	G
1	39451,43	43,3					
2	39451,43	42					
3	39451,43	42,8					
4	39451,43	95,8					
5	39451,43	44,9					
6	39451,43	42,8					
7	39451,43	46,5					
8	39451,43	95,8					
9	39451,43	95,8					
10	39451,43	95,8					
11	39451,43	44,7					
12	39451,43	42,8					
13	39451,43	42,9					
14	39451,43	43,9					
15	39451,43	44,7					
16	39451,43	43,2					
17	39451,43	43,7					
18	39451,43	95,8					
19	39451,43	45,2					
20	39451,43	42,5					
21	39451,43	42,5					
22	39451,43	44,1					
23	39451,43	44,4					
24	39451,43	45,6					
25	39451,43	95,8					
26	39451,43	95,8					
27	39451,43	42,4					
28	39451,43	41,8					
29	39451,43	42,1					
30	39451,43	42,3					
31	39451,43	41,8					
32	39451,43	42,4					
33	39451,43	42					
34	39451,43	41,8					

	A	B	C	D	E	F	G
1	04-01-08 10:15	43,3					
2	04-01-08 10:15	42					
3	04-01-08 10:15	42,8					
4	04-01-08 10:15	95,8					
5	04-01-08 10:15	44,9					
6	04-01-08 10:15	42,8					
7	04-01-08 10:15	46,5					
8	04-01-08 10:15	95,8					
9	04-01-08 10:15	95,8					
10	04-01-08 10:15	95,8					
11	04-01-08 10:15	44,7					
12	04-01-08 10:15	42,8					
13	04-01-08 10:15	42,9					
14	04-01-08 10:15	43,9					
15	04-01-08 10:15	44,7					
16	04-01-08 10:15	43,2					
17	04-01-08 10:15	43,7					
18	04-01-08 10:15	95,8					
19	04-01-08 10:15	45,2					
20	04-01-08 10:15	42,5					
21	04-01-08 10:15	42,5					
22	04-01-08 10:15	44,1					
23	04-01-08 10:15	44,4					
24	04-01-08 10:16	45,6					
25	04-01-08 10:16	95,8					
26	04-01-08 10:16	95,8					
27	04-01-08 10:16	42,4					
28	04-01-08 10:16	41,8					
29	04-01-08 10:16	42,1					
30	04-01-08 10:16	42,3					
31	04-01-08 10:16	41,8					
32	04-01-08 10:16	42,4					
33	04-01-08 10:16	42					
34	04-01-08 10:16	41,8					

## **CLEANING**

The units may be cleaned using a soft moist cloth.

**NOTE !** Never use any type of chemical detergent.