

NorConcertControl

Program to monitor noise on various events

Type Nor-1037



Edition 01/2015

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Introduction

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Installation

The NorConcertControl program is delivered on a CD and may be installed directly onto your computer following the instructions below. For the installation of the software you need administrator rights for your computer.

1. Insert the CD-ROM into the drive. If the CD-ROM does not start automatically use Windows Explorer to locate the file *install.exe* in the root directory of the CD, double click it and follow the instruction to complete the autoinstall of NorConcertControl.
2. Plug the delivered dongle **after the successful installation of NorConcerControl** into the USB port. This Software program is protected by a software protection plug (dongle). The software driver for the dongle will be installed automatically by the installation program of NorConcertControl. When plugged into the USB Port, the red LED inside the dongle should light up, indicating its full functionality
3. Start the NorConcertControl program. NorConcertControl will then automatically recognize your registration data. In the other case, the dialog box "Product Registration" will open. Key in the Company, Username and the 32 character Registration code exactly as written in your license

information. You may enter DEMO to enable all available options for a 60 day trial period.

Possible error messages and solutions

“Software protection plug not found. Make sure it is installed correctly.”

- Check if the dongle is plugged into the USB port.
- If this is the case, the automatic installation of the dongle driver may not have been successful. This can be the case even with the red LED in the dongle lightening. That means that Windows has recognized the dongle as “new hardware” and used a Windows driver. Please start the installation of the dongle driver manually by launching the file *HASPUserSetup.exe* from the NorConcertControl program folder or from the CD.

Uninstalling NorConcertControl

Norsonic recommends that you uninstall any older version of NorConcertControl prior to install new versions. Running multiple versions of NorConcertControl applications on the same computer is not recommended or supported by Norsonic.

To uninstall NorConcertControl:

1. From **start** menu, select **settings > control panel > Add or Remove Programs**
2. Click on **Change or Remove Programs**.
3. Click the **Install/Uninstall** tab, if your version of Windows has it.
4. From the list of Programs that you can remove, select **NorConcertControl**
5. Click on **Change/Remove**.
6. At the prompt, click **Yes** to confirm that you want to remove the NorConcertControl program. The uninstall program removes program files, folders and registry entries
7. When the files are removed, the uninstall program indicates that the process is complete. Click **Finish**

System requirements

Processor/Memory

233 MHz Pentium-class processor with 128Mb RAM (minimum).
600 MHz Pentium III-class processor with 256Mb RAM (recommended).

Display

1024x768 or higher resolution display with 16-bit colours (minimum).
NorConcertControl is optimized for a screen resolution of 1024x768.
Select a screen resolution of 1024x768 pixels on your PC/notebook, to work
with NorConcertControl.

Operating system

Windows XP.
Windows Vista.
Windows 7
Windows 8

It is possible that NorConcertControl also runs on older operating systems,
however, Norsonic recommends using WinXP, Win7 or Win8

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Working with NorConcertControl

Overview

NorConcertControl is a program to monitor and record the sound level during events, In- or outdoor concerts, discos, cinema shows etc. according to the requirements of the conf. sound and laser regulation.

NorConcertControl can be used with a Norsonic sound level meter (Nor118, Nor140, Nor135 or Nor131/132)

The sound level meter is fully controlled by the PC-program. All relevant measurement categories are shown on the screen, during the event. Therewith the audio engineer has all information to adjust the level to adhere the threshold value. In particular NorConcertControl calculates the sliding 1h LEQ value. This value is decisive for the conf. sound and laser regulation and cannot be calculated/shown by a sound level meter directly.

To report the carried out measurement, it can be exported to Microsoft Excel.

NorConcertControl runs on Microsoft Windows. NorConcertControl is handled like basic Windows applications (menu, toolbars etc.)

Workspace

Launch NorConcertControl like any other MS-Windows program *start > All Programs > Norsonic > NorConcertControl*.

At start, there will be created a new measurement automatically. The measurement contains different display modes to show the various measurement values.

The main window of NorConcertControl



Leq Xmin: The Leq Xmin control shows the average value of the last measured period. The period can vary between 1 up to 5 minutes.

Short-period LeqA & MaxA: This graph continuously shows the Leq Xmin values. The control gets updated regularly so it shows all level-time values measured in the last 60 minutes. The bars in blue indicate the average Leq value weighted dBA, grey indicates the maximal Max value also weighted dBA. The red line indicates the threshold value.

Leq Xh: The Leq Xh control shows the average Leq of the last full Leq period (15, 30, 45 or 60 minutes). This field won't show a value until a Leq period is full (e.g. an hour, 15 minutes). This value gets updated according to the selected

resolution, so it can vary between 1 up to 5 minutes.

Event LeqA Xmin: This graph continuously shows the values from the Leq Xh control, so it shows the level-time progress of the whole measurement duration. The red line indicates the defined threshold value.

Attention!: Because the Leq 1h value cannot be calculated until a full Leq-period is measured (e.g. 30 mins or an hour), the lower graph will show the actual Leq tot, until a period is full.

On the right side, there's a bar, which indicates the actual SPL value. After starting a measurement it will show the actual value read out of the sound level meter. Above the bar-display is a text field, which shows the SPL numerically.

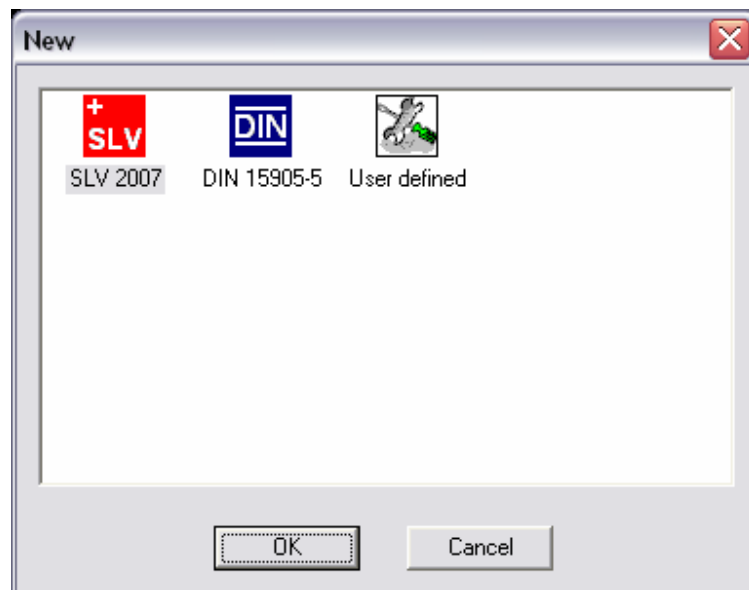
MAX tot. and Leq tot. provide the maximal measured SPL value and the average value measured over the whole measurement duration.

The Leq1 field shows the highest measured Leq during the whole Event. Right beside the Leq1 field is described when, time and date, the highest Leq occurred.

Starting a measurement

At start, there will be created a new measurement automatically.

A measurement can explicitly be created with the command *File > new*. In the New dialog you can chose the Standard, either Swiss, German or user defined. User defined allows you to specify every option in the measurement set-up.



SLV 2007: NorConcertControl measures according to the Swiss sound and laser regulation.

- 60 minutes running LEQ

DIN 15905-5: NorConcertControl measures according to DIN 15905-5:

- 30 minutes running LEQ
- Second threshold is activated

- Distance correction: K1 and K2

Remark: NorConcertControl starts with the standard that was specified in the last measurement. If you want to explicitly switch to another standard – use *File>New* and select the appropriate standard.

Shortcuts:

Toolbar: 

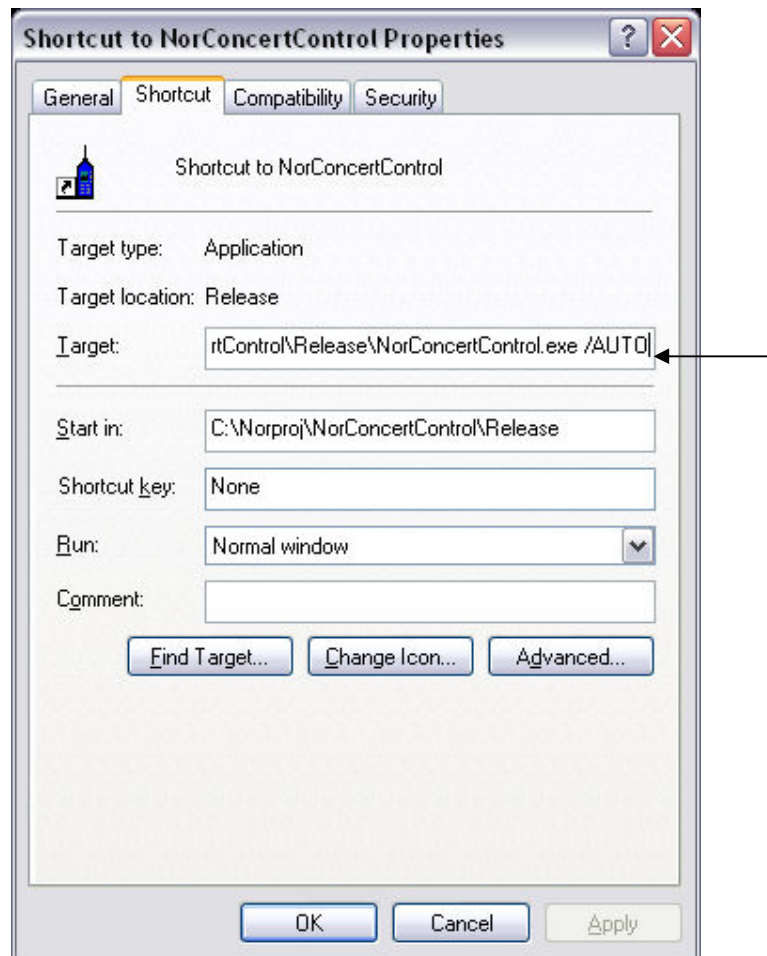
Keys: **Strg + N**

Starting a measurement automatically

NorConcertControl can automatically start a measurement on start-up of your computer.

To do so, the following steps are required

- Add a shortcut to the start-up folder
Drag and drop the NorConcertControl.exe into start→All programs→Startup
- Add /AUTO parameter
Change the properties of NorConcertControl shortcut in the startup folder and add the parameter at the end
- Add /AUTO:x parameter if you want to restart the measurement at a specific time. X can be a value from 0 – 23. e.g. /AUTO:15



After the PC has boot up and NorConcertControl started, it's measuring continuously, every morning at 5 o'clock (unless you have used the /AUTO:x parameter) it stops the measurement, exports it and starts the measurement again. This ensures that the sound level meter doesn't run out of memory.

Attention

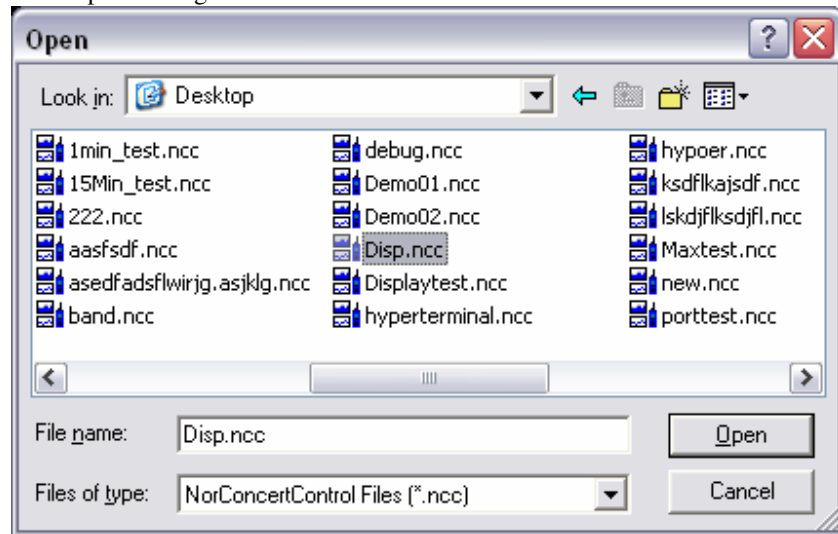
Before you put NorConcertControl in the startup folder, please review the port settings for both, Sound level meter and Display (be sure to select "None", if there will be no Display used)

Opening a measurement

There are two ways to open a saved NorConcertControl Measurement


- Double-click the project file (*.ncc) in Windows Explorer.
- Or use *File > Open* and locate it on your file system

The "Open" dialog box:



A NorConcertControl measurement has the following file extension: *.ncc

Shortcuts:

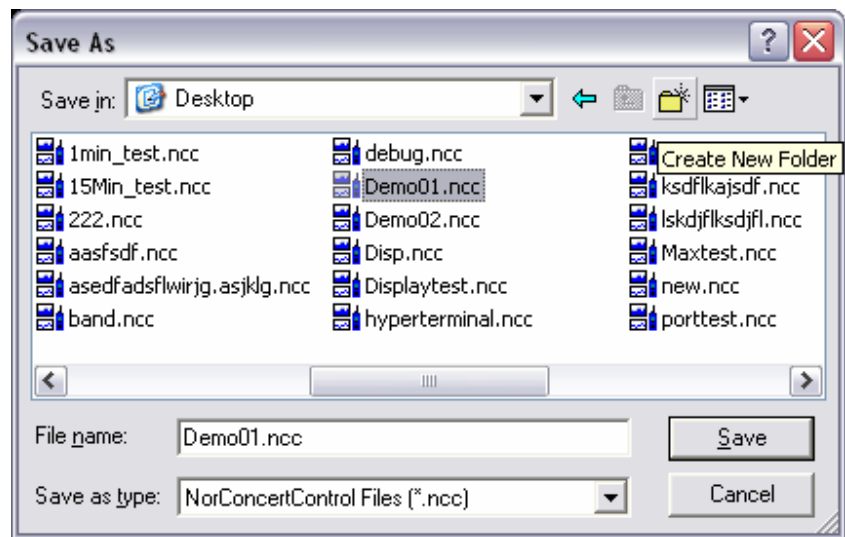
Toolbar: 

Keys: **Strg+O**

Saving a measurement


Use *File > Save*, to save the current measurement. If you save a measurement the first time, NorConcertControl will show the dialog box „Save As“, so you can choose a name and a location to save it.

The „Save As“ dialog



A NorConcertControl measurement has the following file extension: *.ncc.

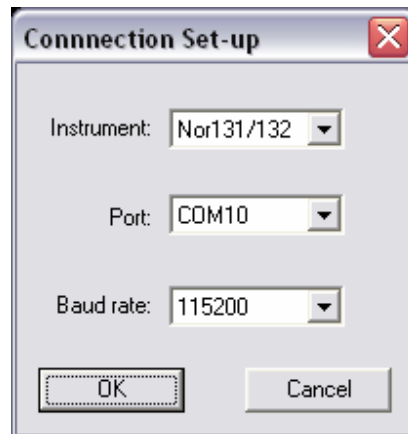
Shortcuts:

Toolbar: 

Keys: **Strg+S**

Connection Set-up

Use *Settings > Connection Set-up* to set connection related settings




Instrument: Choose the type of sound level meter you are using

Port: Select the Port number, on which the Instrument is connected to

Baud rate: Select the same baud rate as on the instrument.

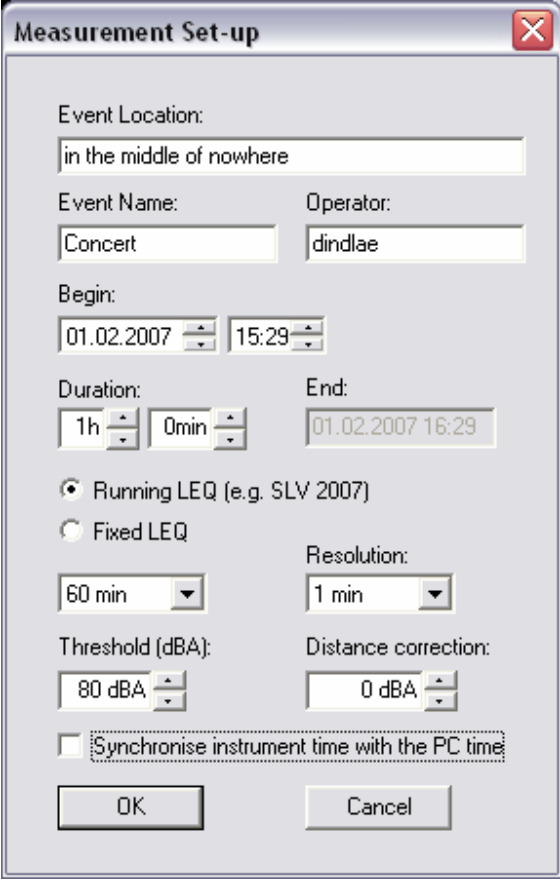
Attention!: The selected baud rate has to be exact the same as set on the instrument (

Shortcuts:

Toolbar: 

Measurement Set- up

Use *Settings > Measurement Set-up* to set measurement related settings.



Measurement Set-up

Event Location:
in the middle of nowhere

Event Name: Concert Operator: dindlae

Begin:
01.02.2007 15:29

Duration: 1h 0min End: 01.02.2007 16:29

☒ Running LEQ (e.g. SLV 2007)
☐ Fixed LEQ

Resolution: 1 min


Threshold (dBA): 80 dBA Distance correction: 0 dBA

☐ Synchronise instrument time with the PC time

OK Cancel

Event Begin and duration do not have any influence on the start and end of the measurement. They're just meant as additional information, e.g. the duration of the event. Those values can be changed after the measurement has been stopped. The effective start/stop time and duration are read out of the sound level meter and will be mentioned in the exported report.

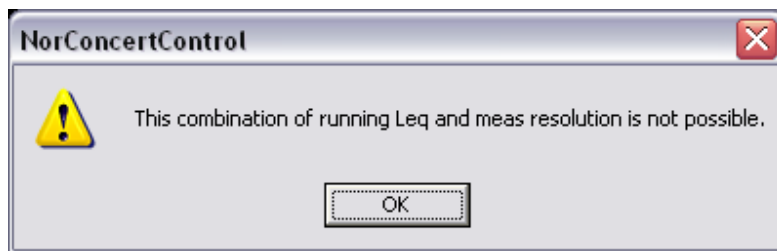
Shortcuts:

Toolbar: 

Running Leq

Use *Settings > Measurement Set-up* to specify the running LEQ (e.g. 15min) and the measurement resolution.

If you select a combination of Leq and resolution, which can't be completely divided, the following error message will appear. A valid example would be: Leq: 15min, resolution: 5min but a resolution of 2min will result in an error.



Attention!: According to the sound and laser regulation, you have to measure the Leq over 60 minutes, other Leq (e.g. 30min) measurements are invalid

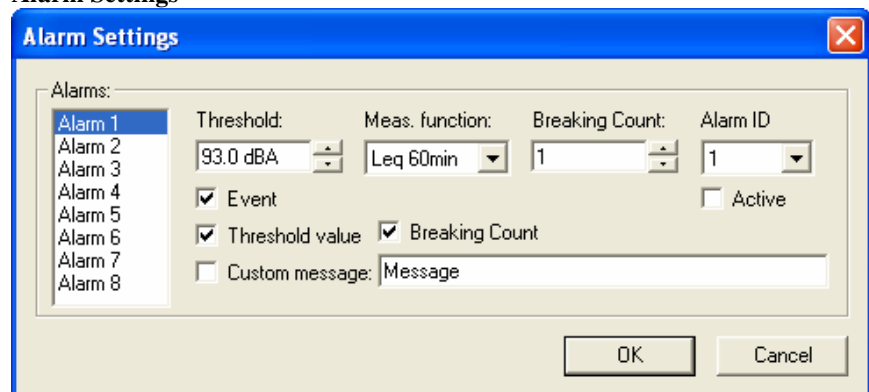
Alerting-Option

With the alerting-option users can be informed via SMS, digital output, email or Twitter. If the defined threshold gets exceeded NorConcertControl can inform up to 8 users with an SMS, a digital impulse, an email or via Twitter.

General requirements

- Alerting-Option for NorConcertControl

Alarm Settings



Use *Settings > Alerting Set-up > Alarms* to define alarms. An alarm gets initiated if a certain threshold is exceeded one or more times. This will result in sending an SMS, raising the output line (impulse of one second), sending an email to the users that have the corresponding Alarm ID or posting a tweet on your Twitter account.

Under Alarm Settings you can define the threshold and the measurement function, as well as how many times (Count) it has to be exceeded that it triggers the alarm. The counter will be reset every time the alarm has been triggered. The Checkboxes “Time”, “Threshold value”, “Event”, “Count” or Custom message will be put into the SMS, email or tweet if they’re checked. With the checkbox “Active” you can decide whether the alarm should be active or disabled. All in all you can define 8 alarms.

Email

Requirements

- SMTP Server
- Internet access

Settings

The screenshot shows the 'Email Settings' dialog box. It has a blue title bar with the text 'Email Settings' and a close button. The dialog is divided into two main sections. The top section is for 'User' settings. It has a list of users on the left, all named 'Benutzer'. To the right of the list are fields for 'Username' (containing 'Benutzer'), 'Email address' (empty), and 'Use Alarm ID' (a dropdown menu set to '1'). There are also checkboxes for 'Alert only once' and 'Active'. A 'Send Test Email' button is located below these fields. The bottom section is for 'SMTP Server' settings. It has fields for 'Server' (empty), 'Port' (set to '587'), 'Email address' (empty), 'Encryption' (a dropdown menu set to 'None'), 'Username' (empty), and 'Password' (empty). There are checkboxes for 'requires authentication' (checked) and 'Use alerting' (unchecked). 'OK' and 'Cancel' buttons are at the bottom right of the dialog.

In *Settings > Alerting Set-up > Email* you can set up your email alarm and define up to eight users.

To use e-mail alerting, an e-mail address is required. You can send a test email by clicking “Send Test Email”.

By checking the “Active” checkbox, this User will get alarmed. To get alarmed only once when the alarm would be triggered several times tick the “Alert only once” box.

Under “SMTP Server” you have to define the connection data for the SMTP server.

Field:	Info:	Example:
Server	address of your SMTP server	smtp.gmail.com
Port	port of your SMTP server	25/456/587
Email address	sender address	alarm@gmail.com
Encryption	encryption to be used	None/TLS/SSL
Username	username for your SMTP server	alarm@gmail.com
Password	password for your SMTP server	

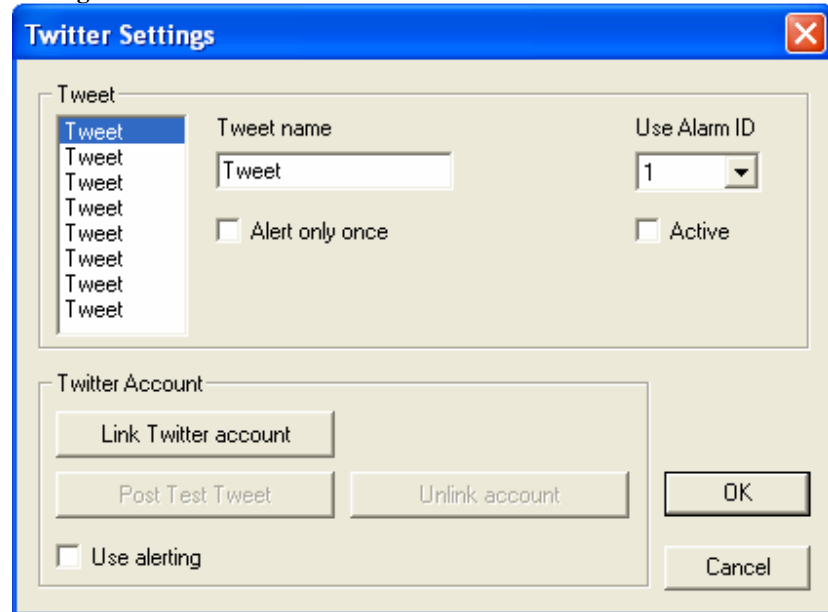
With the checkbox “Use alerting” you explicitly say that you’d like to use the Alarm-Option.

Twitter

Requirements

- Twitter account
- Internet access

Settings

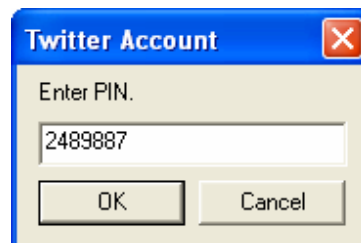


In *Settings > Alerting Set-up > Twitter* you can define up to eight tweets which should be posted on your Twitter account.

By checking the “Active” checkbox, you decide whether the tweet containing the information of the alarm selected under “Use Alarm ID” should be posted on Twitter or not. To get alarmed only once when the alarm would be triggered several times tick the “Alert only once” box.

Under “Twitter Account” you link a Twitter account with NorConcertControl. With the checkbox “Use alerting” you explicitly say that you’d like to use the Alarm-Option.

To link NorConcertControl to your Twitter account, click the button “Link Twitter account” to open twitter.com in your browser. Make sure that you’re logged in with the account you want to link and authorize NorConcertControl to use it.



Enter the appearing PIN in NorConcertControl to complete the process. You can unlink the account whenever you want. To post a test tweet click “Post Test Tweet”.

SMS

Requirements

- Siemens TC35 GSM Modem. We cannot guarantee the performance of other modems, no matter how compatible they claim to be. However Siemens is constantly updating their product range, so new, but compatible products will be available, contact the factory or your local representative, if in doubt.
- A SIM-Card with deactivated PIN-Code request. (TIP: Turn the PIN-Code request off in your mobile phone settings).

Settings

The screenshot shows the 'SMS Settings' dialog box. It features a blue title bar with the text 'SMS Settings' and a close button. The main area is divided into two sections. The top section, titled 'User:', contains a list of eight users, all named 'Benutzer'. To the right of this list are three input fields: 'Username:' (containing 'Benutzer'), 'Phone. No. (GSM):' (containing 'TelNr'), and 'Use Alarm ID:' (a dropdown menu set to '1'). Below these fields are two checkboxes: 'Alert only once' and 'Active', both of which are currently unchecked. A 'Send Test SMS' button is located below the 'Alert only once' checkbox. The bottom section, titled 'GSM Modem Settings', contains a 'COM-Port:' dropdown menu set to 'COM1' and a 'Use alerting' checkbox, which is also unchecked. At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

In *Settings > Alerting Set-up > SMS* you can set up your SMS alarm and define up to eight users.

To use GSM alerting, a phone number is needed. You can send a test SMS by clicking “Send Test SMS”.

By checking the “Active” checkbox, this User will get alarmed. To get alarmed only once when the alarm would be triggered several times tick the “Alert only once” box.

Under “GMS Modem Settings” you choose the port, on which the GSM-Modem is connected to and with the checkbox “Use alerting” you explicitly say that you’d like to use the Alarm-Option.

Digital output

Requirements

- National Instruments Digital I/O device, e.g. NI USB-6501

Settings

The screenshot shows the 'I/O Settings' dialog box. It has a blue title bar with the text 'I/O Settings' and a close button. The dialog is divided into two main sections. The top section is for user configuration, featuring a list of users (all named 'Benutzer'), a 'Username' field, a 'Line No. (NI)' dropdown menu (set to 0), a 'Use Alarm ID' dropdown menu (set to 1), checkboxes for 'Alert only once' and 'Active', and an 'I/O Test Impulse' button. The bottom section is for 'NI I/O Device' configuration, with a 'Device' field (set to 'Dev1'), a 'SIM-Pincode' dropdown menu (set to 0), and a 'Use alerting' checkbox. 'OK' and 'Cancel' buttons are located at the bottom right of the dialog.

In *Settings > Alerting Set-up > I/O* you can set up your digital output alarm and define up to eight users.

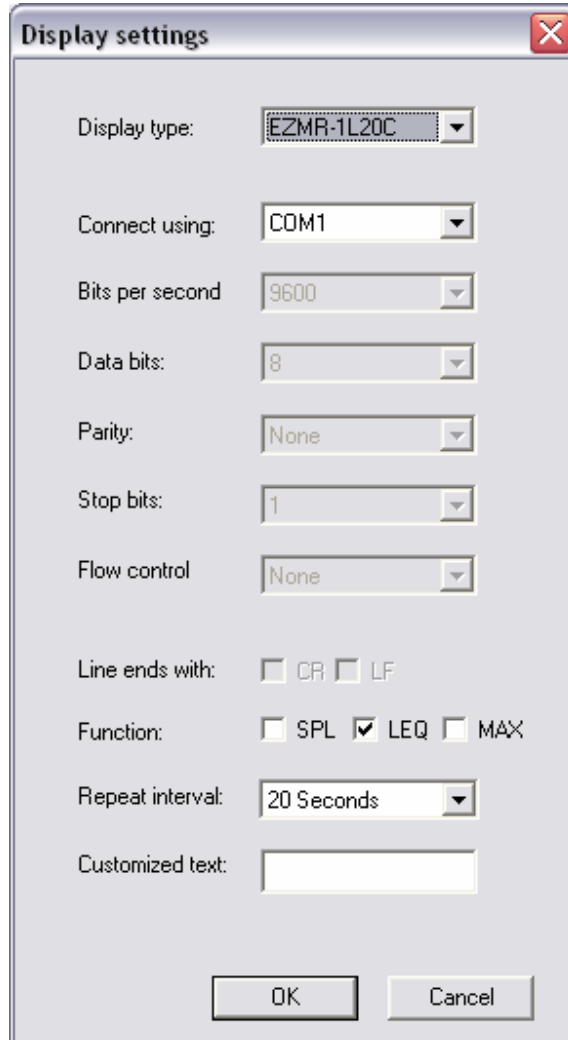
To use digital output alerting you have to select the line number which should provide the digital impulse. You can fire a test impulse by clicking “I/O Test Impulse”.

By checking the “Active” checkbox, this User will get alarmed. To get alarmed only once when the alarm would be triggered several times tick the “Alert only once” box.

Under “NI I/O Device” you specify the device name and port number. With the checkbox in “Use alerting” you explicitly say that you’d like to use this Alarm-Option.

Display settings

Use *Settings > External Display...* to get to the display configuration dialog.

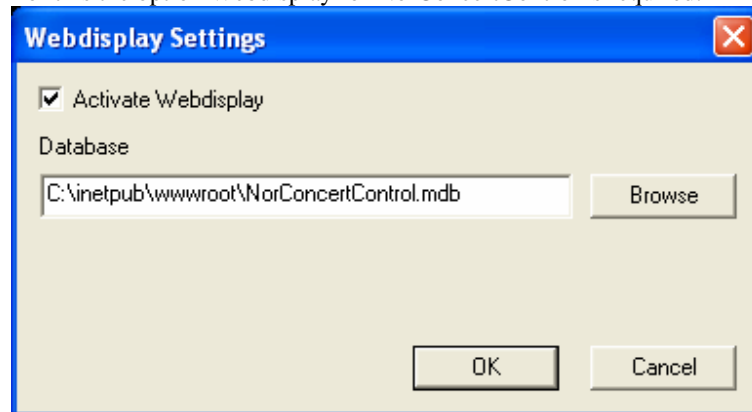


In this configuration dialog you can setup the settings for your external display or HyperTerminal connection. If the display-type EZMR-1L20C or Migra SC/MC 5 is chosen, the values that are predefined for this type are inactivated. You have to set the comport, where your display is connected up. Also select the functions you'd like to show on the display/HyperTerminal and the interval until it will switch to the next function. Customized text is a text which will show up between the functions. When you choose "HyperTerminal" then you can define all possible values from Bits per second till the Line endings.

Norsonic Brechbühl AG guarantees that NorConcertControl is working properly with the Display types: EZMR1L20C and Migra SC/MC 5. If you use another type of display, it cannot be guaranteed that NorConcertControl works properly with that type.

Webdisplay settings

Use *Settings > Webdisplay Set-up...* to activate the NorConcertControl Webdisplay. For this the option Webdisplay for NorConcertControl is required.

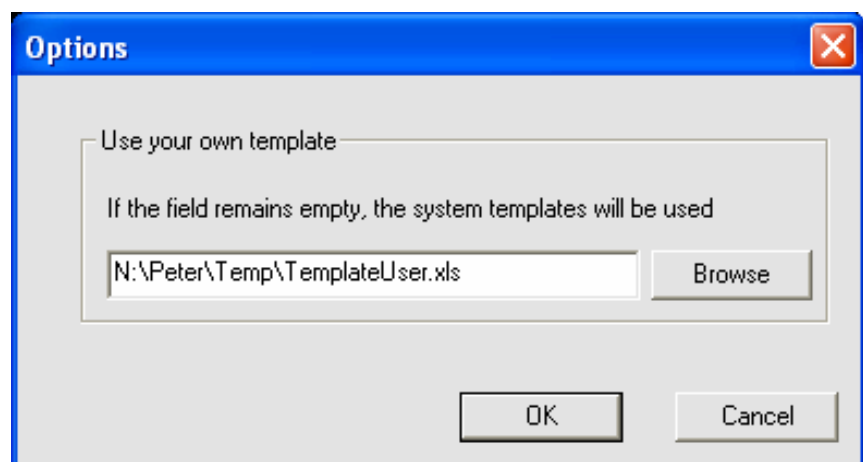


To use NorConcertControl Webdisplay check the checkbox *Activate Webdisplay*. NorConcertControl will now write the data of current measurements to the database. The database path is automatically entered when installing NorConcertControl Webdisplay (a restart of NorConcertControl is necessary). The database is by default located in the root directory of the website.

NorConcertControl Webdisplay can be accessed via the IP address of the computer. (Example: *http://192.168.1.25/*)

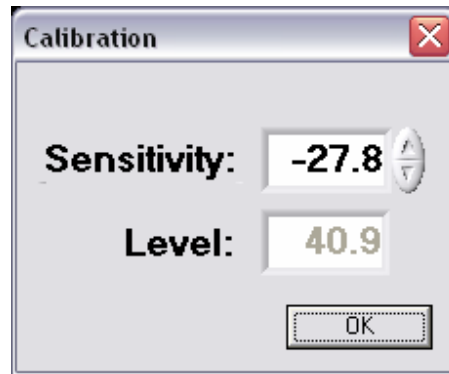
Options settings

Use *Settings > Options Set-up...* to select your specific Excel template file. If the field is empty, the standard template files of NorConcertControl will be used.



Calibration

Use *Measurement > Calibrate* to call the calibration dialog.



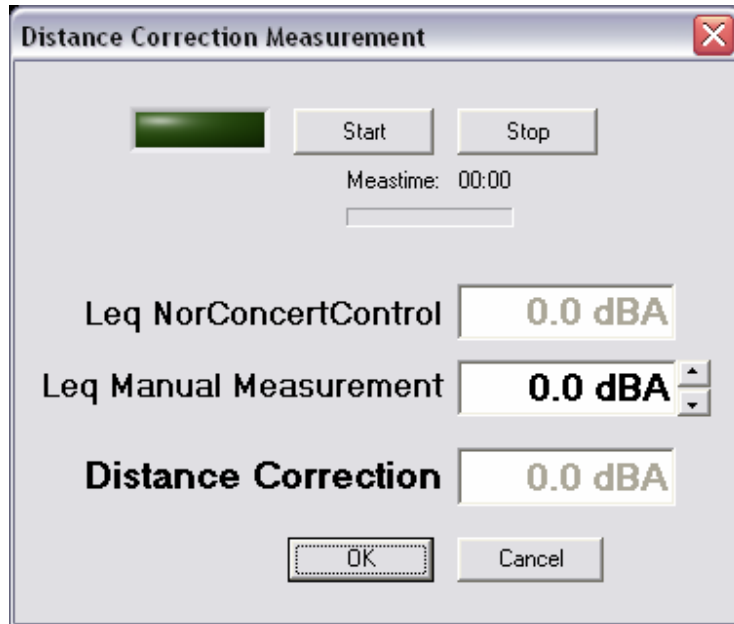
If you have put the calibrator (1kZz, e.g. Nor1251) on top of your microphone, you can adjust the sensitivity with the arrow keys, until the target level of the calibrator is reached. To commit the sensitivity and to save it onto the sound level meter click OK.

Distance correction measurement

The threshold is determined to be measured at the loudest place in the event area. Mostly it's the case that you can't measure at that place. To solve that issue, NorConcertControl provides the functionality to define a distance correction.

Use *Measurement > Distance correction measurement* to call the Distance correction dialog.

Click „start“ to start a measurement. The measurement lasts 5 minutes, if it doesn't get stopped by pushing stop. By the help of a constant noise you can measure the level where NorConcertControl with sound level meter will be placed during the event. At the same time (with a second sound level meter) find the loudest place in the event area and enter it in the “Leq Manual Measurement” field. NorConcertControl calculates the distance correction and you can confirm with OK.



Attention!: The distance correction value is automatically added to the level.

Example:

The distance correction value is 2.5 dBA.

Level NorConcertControl: 95 dBA

Level sound level meter: 97.5

Measurement locations:

Loudest place in event area: 97.5 dBA

Measurement location (NorConcertControl): At the mixer unit, however measured 95 dBA only.

The sound level meter measures 95 dBA.

If you set a distance correction of +2.5 dBA, NorConcertControl will show 97.5 dBA, and that's what is getting measured at the loudest place.

Starting a measurement

Use *Measurement > Start* to start a Measurement. After you've pushed *Start*, the *Save As* dialog prompts you for a filename and location. If you provided that information NorConcertControl will establish a connection to the sound level meter.

If the connection couldn't be established, NorConcertControl notifies you with an error message. If everything went well, NorConcertControl starts to show values (SPL bar on the right side)

Shortcuts:

Toolbar: 

Stopping a measurement

Use *Measurement > Stop* to stop the running measurement.

Shortcuts:

Toolbar:



Exporting

After a measurement is done, you can export it to Microsoft Excel. By exporting it you get a better overview of the data (all measured data is listed) and you can also adjust the Excel sheet to fit your needs (e.g. add your company's logo). You can also export the values of a running measurement.

Shortcuts:

Toolbar:




View

Use *View* to define, whether the Toolbar, Statusbar or the Explorerbar should be visible/invisible. To activate the toolbar, select: *View > Toolbar*.

Exit command

Use *File > Exit* to terminate NorConcertControl. If you did not save changes to the measurement, you'll get asked to save or discard changes.

You can also use the button  in the caption of the NorConcertControl window or choose Exit from the caption-menu.

Shortcuts:

Mouse, double-click the control menu in the caption



Keys:


Alt+F4

Help

Help contents

Use ? > *contents* to open up the Help

Shortcuts:

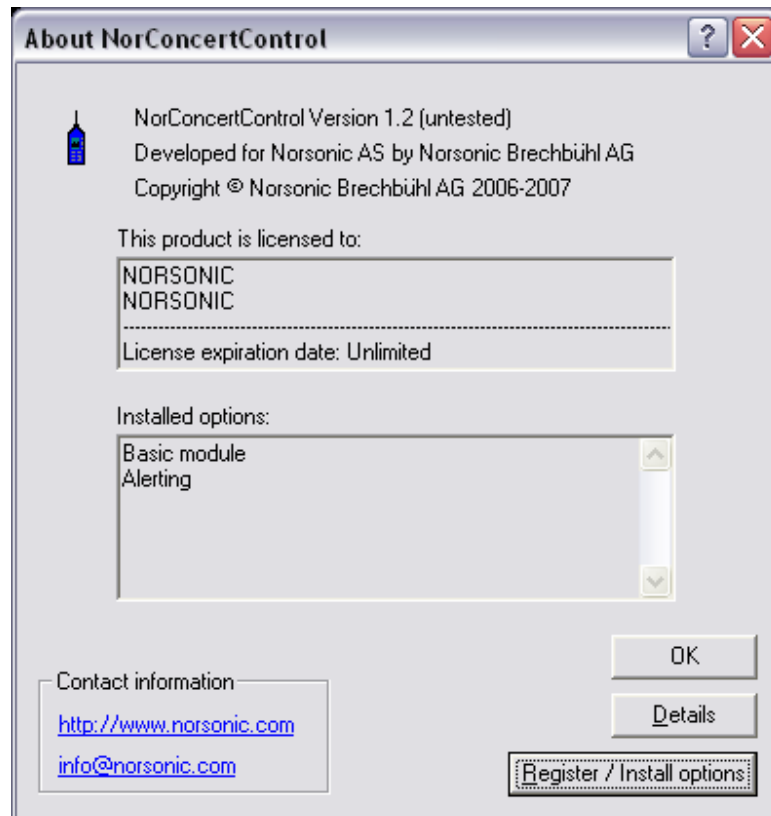
Toolbar: 

Keys:

F1

About NorConcertControl

Use ? > *About NorConcertControl*, to see the following information about NorConcertControl.



This dialog shows the version, copyright and licence information

Typical steps for a measurement with NorConcertControl

Guidelines

Using NorConcertControl to measure an event, needs the following steps

1. Boot up PC and sound level meter (Nor118, Nor140, Nor131 or Nor132)
2. Plug the sound level meter into a USB port
3. Launch NorConcertControl.
4. Change or make sure the connection set-up is correct
5. Calibrate the sound level meter
6. Find out the distance correction with a distance correction measurement.
7. Enter measurement settings (Event location, Event name, threshold value etc.)
8. Start a measurement.
9. Provide name and path to save the measurement.
10. During the event, it's possible to create a report containing the values up to this moment.
11. At the end of the event, stop the measurement.
12. If the measurement wasn't saved at start, save it now to avoid loss of data.
13. Export the measurement