Control Module for Building Acoustics Measurements
CtrlBuild

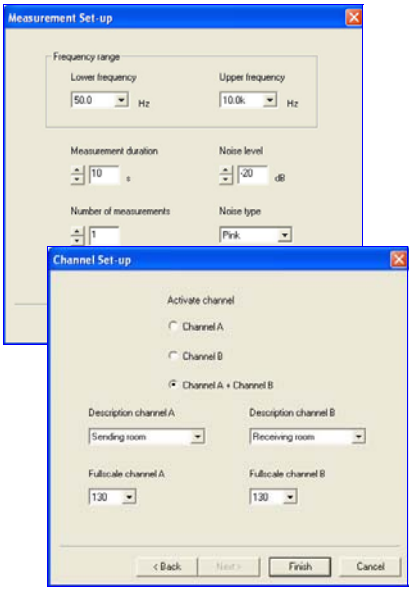
Type Nor1028/3

The easiest way to carry out complex building acoustics measurements: the software control module **CtrlBuild.**

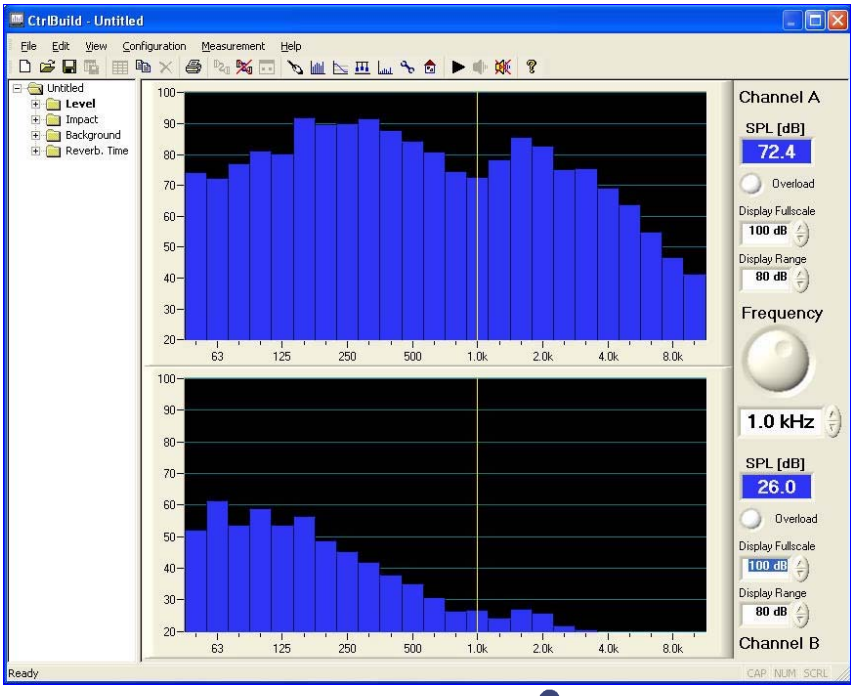
Features:

- Control software for Windows 2000 and Windows XP
- Converts a conventional sound level meter into a dedicated Building Acoustics System
- Control of sound insulation, impact and absorption measurements in conjunction with the NorBuild program
- Control of the Norsonic Analysers type Nor118 or Nor843, even wireless connection in conjunction with the System Nor1516
- Automatic detection of connected instruments to make set up quick
- Supports parallel and sequential frequency analysis methods in 1/3 octave bands to increase the output of your sound source for problem frequencies
- Simple mouse clicks control the instrument set up, the measurement procedure and transfer of data directly to the NorBuild post-processing program to generate reports
- Real time presentation of 1/3 octave frequency spectrum
- Graphical presentation of reverberation decay curves
- Graphical and numerical presentation of measurement results
- Direct transfer to the post-processing program NorBuild

User Interface
For the specialist niche of building acoustics Norsonic has developed a dedicated user interface. The software is called CtrlBuild and runs on Windows 2000 and Windows XP. CtrlBuild provides exactly the set of control elements that are needed for building acoustics measurements. All it needs are a few simple mouse clicks to select the measurement parameters. CtrlBuild automatically sets all parameters which are self-evident for building acoustics. The CtrlBuild program therfore transforms your general purpose sound level meter into a dedicated building acoustics analyser.

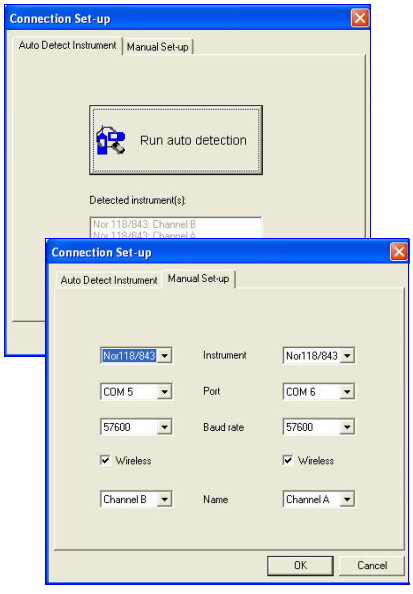


Configuration
Simple mouse clicks within a Windows interface are used to select the parameters that are required for the measurement. The instrumentation can be configured for one of the four measurement modes *Level*, *Reverberation*, *Background* or *Impact*. All that is required then is to set the measurement parameters and define the channel allocation. The frequency range can be selected



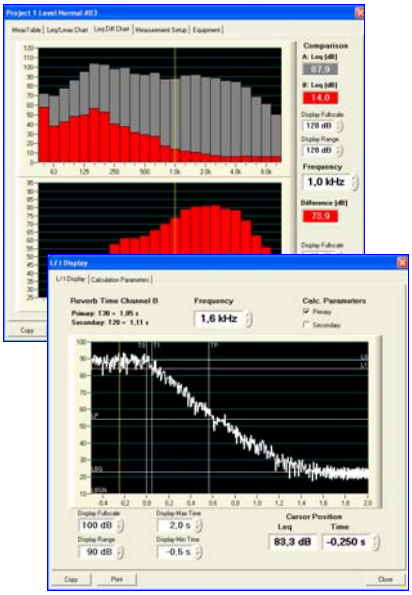
within the limits of 50 Hz to 10 kHz. The choice between parallel (white and pink noise) and sequential (1/3 octave) excitation allows the best compromise between speed and signal to noise ratio to be obtained. The measurement channels can be activated and allocated to source or receiving room for identification by the post-processing program NorBuild.
Once the instrumentation is correctly configured the spectrum of the actual sound pressure level will be displayed on the screen. A simple mouse click will then start the measurement process.

Detection of Instrumentation
CtrlBuild automatically detects the connected analysers. When using the function *Run auto detection* CtrlBuild scans all serial ports to search for a connected Norsonic instrument.



After the scan has finished all detected instruments are listed below the button together with the type and name of instrument. In addition the COM port number, baud rate and type of connection are set up according to the result of the auto detection.

Presentation of Results
The results are shown on the computer display for the operator to review. The results for an accepted level measurement are presented as a numerical table, as an Leq/Lmax chart and as an Leq difference chart.

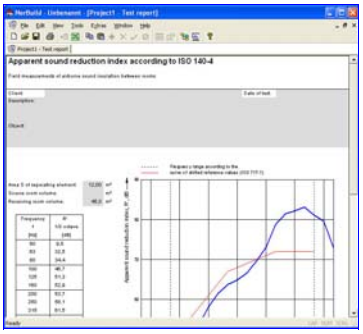


CtrlBuild also provides a graphical presentation of the reverberation decay curve.

Supported Analysers
The following Norsonic instrumentation systems are supported by the program:

- Nor843 Sound Level Analyser with internal Random Noise Generator and Power Amplifier
- Nor118 Sound Level Analyser with internal Random Noise Generator
- Nor121 in preparation

Direct Evaluation in NorBuild
Measurement data obtained by CtrlBuild can be easily transferred by drag & drop into the post-processing program NorBuild. All the setting information in the CtrlBuild project will be recognised by the NorBuild program.
All you need to do is to enter the room and element data into the test report of NorBuild. The entire building acoustic evaluation according to the selected standard will be presented immediately. It could not be easier!



System Requirements
Personal computer running Windows 2000 or Windows XP.
It is possible that CtrlBuild also runs on older operating systems, however, Norsonic AS recommends using Win2000 or WinXP.

Time limited test licenses are available on request from your local Norsonic distributor.

In order to take account of new developments the information given in this publication may be revised at any time.

Norsonic
P.O.Box 24, N-3421 Lierskogen, Norway
Tel.: +47 3285 8900 Facsimile: +47 3285 2208
Info@norsonic.com www.norsonic.com

Distributor: