

EXEL Line for Building Acoustics



Exel Line: Minirator MR-PRO with XL2 Audio and Acoustic Analyzer

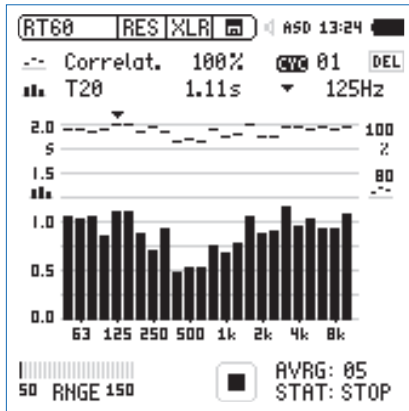


Applications

- Air borne and structure borne sound insulation measurement between rooms or indoor-outdoor areas
- Confirm compliance according ISO 140
- Impact noise measurements
- Qualification of speech intelligibility STI-PA
- Wav-file recording of impulse response for offline calculations

Advantages

- Handheld and compact design for field applications
- High resolution wav-file recording in 24 Bit / 48 kHz format to internal SD Card
- Improved efficiency with dedicated measurements profiles
- Calibrated acoustic measurement system for traceable measurements



XL2 Screenshot RT60 Measurement

XL2 Analyzer Functions

- Sound pressure level SPL
The XL2 measures the sound insulation between rooms or indoor-outdoor areas. The impact sound insulation, e.g. foot steps, is measured by using a tapping machine. The level difference between two rooms needs to be corrected with the influence of the background noise in the receiving room.
- Real time analyzer RTA
The real time analyzer measures the actual acoustic spectrum for sound insulation verification depending on the frequency. The sound insulation is measured at different room positions in 1/1 or 1/3 octave band resolution. The averaged result provides a single number insulation index.
- RT60 reverberation time
The level difference between two rooms needs to be corrected with any influence of the reverberation time in the receiving room. The reverberation time measurement offers automated triggering for repeated tests using an impulse signal or gated pink noise as signal source.
- Speech intelligibility STI-PA
Measures public announcement systems according to IEC 60268-16.



NTi Audio TalkBox

Minirator MR-PRO Functions

- Signal Generator
Provides measurement signals for room and building acoustics, such as band limited pink noise, customized wav-files and the STI-PA test signal.

TalkBox Functions

- Acoustic Sound Source
The NTi Audio TalkBox generates the STI-PA test signal acoustically for speech intelligibility measurements.



Exel Acoustic Set

Order Information	NTi Audio #
Exel Acoustic Set Class 2, with M4260 Measurement Microphone	600 000 400
Exel Acoustic Set Class 1 frequency response with M2210 Measurement Microphone	600 000 410
NTi Audio TalkBox	600 000 085
STI-PA Option for XL2	600 000 338
Extended Acoustic Pack for XL2	600 000 339

For more information please visit www.nti-audio.com/exel.