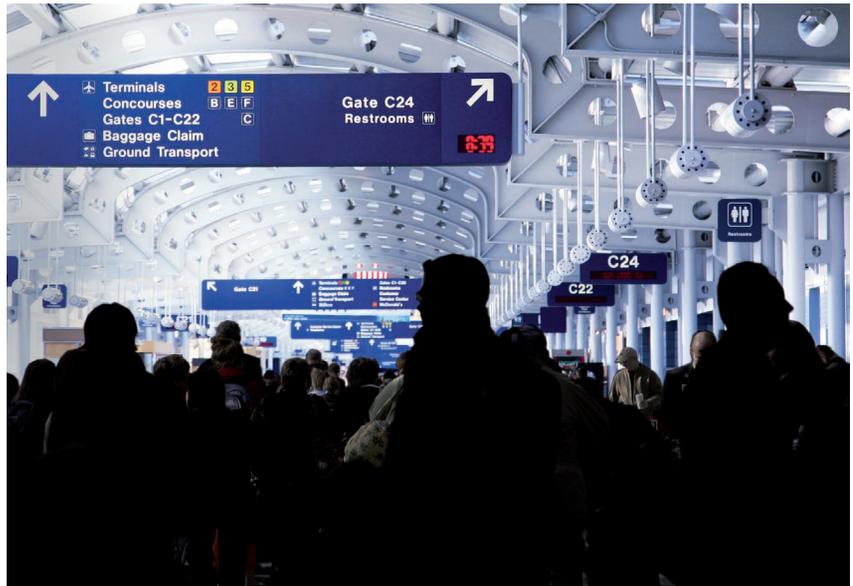# EXEL Line for
# **Installed Sound**





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

## Applications

- Commissioning and verification of electro-acoustic installations at airports, railway stations, public buildings, ...

- Confirm compliance with system specifications and regulations such as IEC 60849, EN 54-24

- Measures speech intelligibility STI-PA according to IEC 60268-16

- Verify 70/100V installations

- Troubleshooting and periodic performance check

## Advantages

- Handheld and compact design for field applications

- Stores all test results to SD Card for documentation

- Improved efficiency with dedicated measurements utilizing user-defined start-up profiles and appending test results to previous data records

- Calibrated audio and acoustic measurement system

XL2 Screenshot STI-PA Measurement



NTi Audio TalkBox

## XL2 Analyzer Functions

- Speech intelligibility STI-PA
  Measures public announcement systems according to IEC 60268-16.

- Sound pressure level SPL
  The XL2 measures all required sound levels. For the system maintenance in occupied building areas a dedicated 18 kHz highpass-filter is provided, thus minimizing annoyance to others.

- Real time analyzer RTA
  Measures the environmental noise spectrum, to verify the effects on the speech intelligibility STI-PA. A post-processing form combines both measurement data.

- Polarity
  The left and right speakers shall be verified for the same polarity, thus achieving a broad stereo sound image.

- Line level RMS and THD
  Verifies and troubleshoots the audio system performance.

- Delay
  Setup of delay line speakers in larger auditoriums, such as churches and conference systems.

## Minirator MR-PRO Functions

- Impedance tester
  Verifies distributed 70/100V loudspeaker installations by measuring the apparent power and phase.

- Signal generator
  Provides the STI-PA test signal, spoken announcement signals, and other test signals for system verification and fine tuning.

- Cable tester
  Verifies XLR audio cables for defects including pin 1 test.

## NTi Audio TalkBox Functions

- Acoustic Sound Source
  Generator for speech intelligibility measurements of the complete signal chain including the talker's microphone.



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 |
| MR-PRO 70/100V Protection | 600 000 313 |
| STI-PA Option for XL2 | 600 000 338 |

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