

EXEL Line for Environmental Noise



XL2 Audio and Acoustic Analyzer with M2210 measurement microphone with class 1 frequency response



Applications

- Industrial- and community noise pollution monitoring
- Urban noise monitoring and noise mapping according directive 2002/49/EC
- Sound level monitoring and documentation in event areas according to DIN 15905-5, SLV 2007 and SLV 2010-FL
- Outdoor measurement stations (mobile or fixed installations)
- Annoyance assessment of noise according ISO 1996-2
- Remote measurement for integration into customer solution

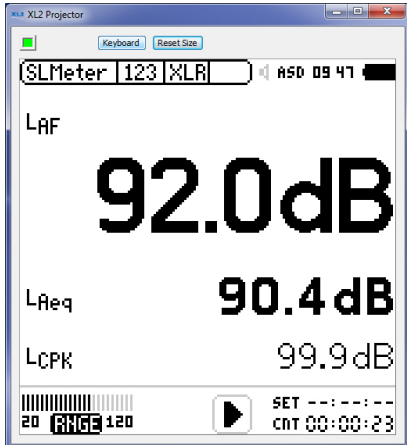
Advantages

- Handheld and compact design for field applications and stand-alone operation
- Predefined measurement profiles according local standards simplify measurements for automated sound level documentation and audio wav-file recording
- Calibrated acoustic test system for traceable measurements



XL2 Analyzer Functions

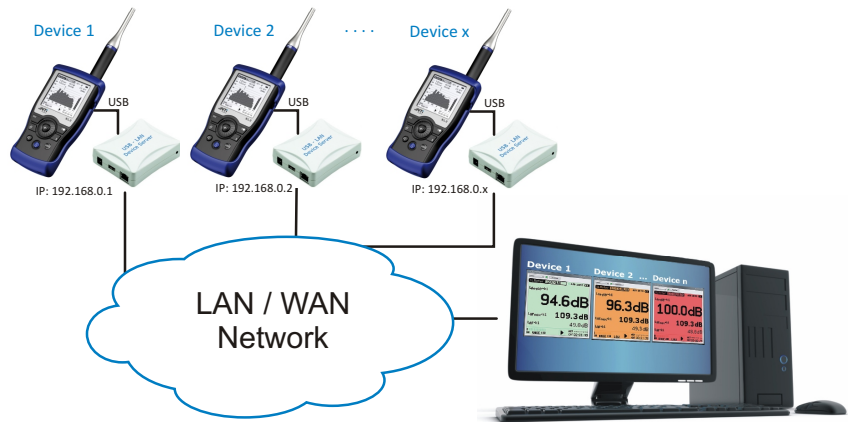
- Sound Pressure Level SPL
Monitors the noise pollution to verify any annoying or excessive noise. All sound levels such as actual, L_{min} , L_{max} , L_{eq} and the sound exposure level L_{AE} are simultaneously measured and logged with frequency weighting A, C, Z and time weightings Fast, Slow and Impulse.
- Remote measurement (optional)
Allows querying the XL2 measurement data online via the USB interface. Thus customers may implement the XL2 in their noise monitoring application.
- Rating level L_r
Assesses noise annoyance according ISO 1996-2. The used rating level L_r is calculated as follows: $L_r = L_{Aeq} + KI + KT + KR + KS$. The correction factors KI (impulses), KT (tones and information content), KR (time of day) and KS (certain sources and situations) are standardized and differ between countries. The detailed FFT analysis provides the results for the KT factor.
- Percentiles
Measures statistic sound levels in wideband and the real time spectrum 1%, 5%, 10%, 50%, 90%, 95%, 99% (optional with Extended Acoustic Pack). This e.g. supports the calculation of the Noise Pollution Level $L_{NP} = L_{eq} + (L_{10} - L_{90})$.



Projector Software displays XL2 screen in real-time on connected PC



Stack Light indicates exceeding sound levels



Noise Monitoring Network connect multiple XL2 Analyzers with USB Device Servers



Exel Noise Monitoring Set

Order Information

	NTi Audio #
XL2 + M4260, Class 2	600 000 340
XL2 + M2210, Class 1 frequency response	600 000 350
Extended Acoustic Pack	600 000 339
Remote Measurement Option for XL2	600 000 375
Stack Light	600 000 381/382

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