

EXEL Line for Quality Control



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



Applications

- Machine condition monitoring for acoustics and vibration
- Passed/Failed measurement of acoustic and vibration spectra's in production, quality control and service
- Long-term condition monitoring

Advantages

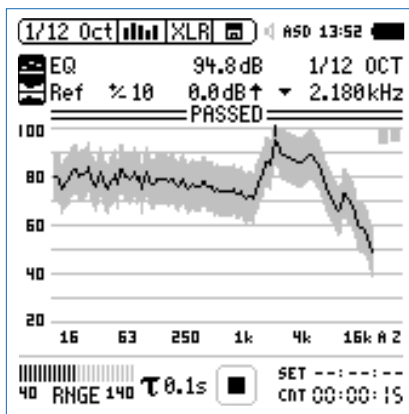
- Handheld and compact design
- Turnkey solution for passed/failed measurements in one unit
- Measurement starts by level trigger, external foot switch or instrument start button
- Improved efficiency with dedicated measurement profiles
- Automated documentation



Stack Light indicates Passed/Failed result

XL2 Analyzer Functions

- FFT analysis
Compares the high-resolution acoustic pattern of any device against a pre-defined reference sample with a pass/fail analysis in linear X-scaling.
- 1/12 octave analysis
Passed/Failed measurements with selectable 1/1, 1/3, 1/6 or 1/12 octave band resolution in logarithmic X-scaling.
- Passed/failed measurements
The XL2 Analyzer captures the frequency spectrum of reference devices, such as engines, rotary motors, fans, vacuum cleaners, etc. and supports generation of tolerance bands based on the captured reference data. Measurements can either be displayed as absolute traces or shown relative to previously stored traces. Frequencies with failed results are individually visualized in every frequency band.
- Auto-start function
Measurement starts by automatic level trigger, external foot switch or instrument start button.
- Stack light
Provides visual passed/failed indication.
- Tolerance management
Tolerance curves can either be imported from txt-files or directly derived from captured measurements. The XL2 calculates tolerance bands based on
 - Single captured results
 - Manually generated txt-files on the PC
 - Mean average of multiple captures
 - Min/Max curves of multiple captures
- Digital I/O Adapter PCB
For automated operation with external peripheral devices the XL2 Analyzer can be linked into a programmable logic control. The Digital I/O Adapter is tailored for rail mounting in electric switch boxes.



XL2 Screenshot PASSED result



Exel Quality Control Set

Order Information

	NTi Audio #
Acoustic Measurements XL2 + M2210, Class 1 frequency response	600 000 350
Vibration Measurements XL2 + ICP Power Adapter	600 000 330 & 600 010 223
Spectral Limits Option for XL2	600 000 376
Stack Light	600 000 381/382

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