

SoundEar® 4 XL - industry



High-Precision Noise Monitoring for Industrial Environments

The SoundEar® 4 XL is a ruggedized, high-precision noise monitoring system designed for the most demanding industrial settings. Built with a high-strength aluminum core and protected by a shock-absorbing rubber bumper, it offers unparalleled durability. Featuring integrated WiFi, Cloud connectivity, and Modbus, the XL model provides real-time noise data and dosimetry to ensure workplace safety and regulatory compliance.

Key Features

- **Industrial Grade Build:** Rugged aluminum cabinet with a high-impact rubber bumper.
- **Integrated Dosimeter:** Automated tracking of cumulative noise exposure (dose) per shift.
- **Advanced Connectivity:** WiFi, Modbus, and Cloud integration for real-time data management.
- **Dual USB Access:**
 - USB-C: For power supply and PC configuration.
 - USB-A: For direct manual export of log files from internal memory (standalone mode).



SoundEar® 4 XL - connector overview.



External microphone.



The mini display on SoundEar® 4 XL is operated manually via the touch panel on the front.

Technical data SE® 4-XL

Performance Standards: Designed to meet performance requirements for IEC 61672-1 and ANSI S1.43 (Class 2).

Directives: EMC: 2014/30/EU
RoHS: 2011/65/EU & 2015/863/EU
WEEE: 2012/19/EU

Regulatory Standards: EN 63000:2018: Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Parameters: Measures 3 parameters simultaneously: LAF, LAS, LCpeak.

Measuring Range: RMS: Total 30 dB to 120 dB.

Accuracy: +/- 0.5 dB (Electronics).

Frequency Range: 20 Hz - 20 kHz.

Weighting: Frequency: A-weighting (RMS), C-weighting (Peak).
Time: Slow (1s) & Fast (125ms).

Memory & Clock: High-capacity internal log storage and high-precision Real Time Clock, both with battery backup (CR2032).

Connectivity: WiFi: Integrated for Cloud connectivity and Modbus TCP.
USB-C: For power supply (5VDC, max 2.5W) and PC configuration.
USB-A: For direct manual export of log files to a USB flash drive.

Mechanical Details: Cabinet: Industrial Grade aluminum core with a protective shock-absorbing rubber bumper.
Front Panel: Shockproof acrylic.
500 mm x 380 mm x 60 mm

Dimensions: 2.8 kg

Weight: 0°C to 50°C

Operating Temp.: IP 42 (Dust and drip-proof).

Ingress Protection: