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.
- **Exposure LED Bar:** Rolling 10, 15 or 60 min. average shows progress towards a selected limit value.
- **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 (5 VDC, 2 A) 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.
Dimensions:	500 mm x 380 mm x 60 mm
Weight:	2.8 kg
Operating Temp.:	0°C to 50°C
Ingress Protection:	IP 42 (Dust and drip-proof).