

SoundEar®4 - 410 industry



Noise monitoring with standalone data access

SoundEar®4-410 is designed to help industrial workplaces visualize noise levels and create greater awareness of the acoustic environment. Its clear green, yellow and red light indicators provide immediate feedback when sound levels exceed the selected threshold values, supporting timely action in production areas and other noise-sensitive workplaces.

With SoundEar®4-410 you can

- Monitor and visualize noise levels in real time.
- Connect to the optional SoundEar Cloud to receive alerts and reports and gain remote access via integrated Wi-Fi.
- Apply scheduled day and night settings for alarm thresholds and display brightness.

SoundEar®4-410 combines network connectivity with standalone operation. Measurement data is stored internally in the compact SoundEar .ear format. The USB-A port supports transfer of configuration settings, export of internal .ear files and higher-resolution CSV logging when a USB flash drive is connected. Sound level data is stored only - no audio is recorded.

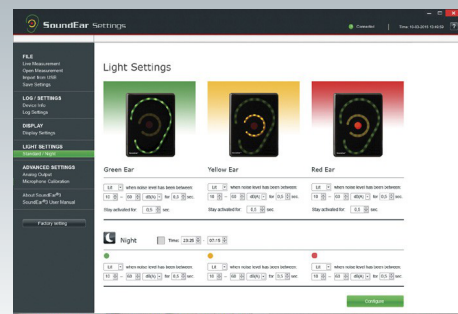
The mini display is operated manually via the touch panel on the front.



USB-A and USB-C ports.



External microphone.



SoundEar®4 software.

Technical data SE®4-410

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:

Measurements: LAF, LAS and LCpeak simultaneously; logs LAeq,1s
Resolution: 0.1 dB
Measuring Range: 30-120 dB RMS
Accuracy: +/- 0.5 dB
Frequency Range: 20 Hz-20 kHz
Frequency Weighting: A-weighting (RMS), C-weighting (Peak)
Time Weighting: Slow (1 s) and Fast (125 ms)
Dynamic Range: 90 dB

MEMORY AND TIME:

Internal logging: Compact SoundEar.ear format
Real Time Clock: High precision, battery backup (CR2032)
Microphone: External, 20 Hz-20 kHz

CONNECTIVITY:

Wi-Fi: 2.4 GHz, 802.11 b/g/n
Antenna: Integrated Wi-Fi antenna on PCB
Protocol: Modbus TCP
Cloud: SoundEar Cloud (optional)

MECHANICAL FEATURES:

Cabinet: Shockproof acrylic
USB-C: Power and PC connection
USB-A: Configuration, .ear export and CSV logging
Dimensions: 256 x 205 x 45 mm / 1.5 kg
Mounting: VESA compatible
Ingress Protection: IP42

ELECTRICAL FEATURES:

Power Supply: 5 VDC (USB-C)
Consumption: max. 2.5 W

TEMPERATURE:

During operation: 0 °C to 50 °C
Storage/transport: -20 °C to 60 °C

MINI DISPLAY:

LAeq,1s, alarm level, clock or display off.