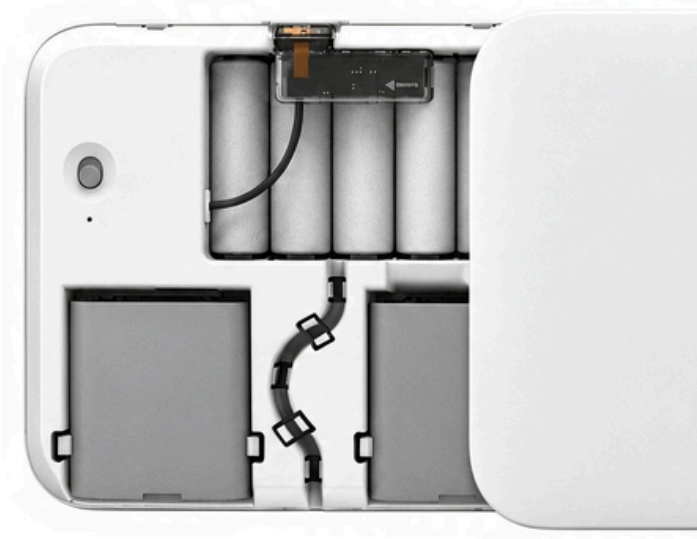


Sound Sensor Technical Specifications

Sound monitoring is available as an add-on for the Sensedge Go, our wireless, peel-and-stick IEQ monitor with up to eight years of battery life. Measure the full audible spectrum and capture a space's sound level, how much it fluctuates, and which frequencies dominate.



Product Features

Measure more than just decibels

Every aspect of acoustic comfort: sound level, variability, and frequency is monitored continuously.

Private by design

Four layers of security built in, from hardware to firmware to software to cloud, ensuring privacy every step of the way.

Insights beyond an acoustic survey

Continuous data over weeks, months, and years to hear what your spaces actually sound like.

One platform with four senses

Sound, air quality, thermal comfort, and light data all live on the Kaiterra Data Platform, now a complete IEQ solution.

Sensor Specification

(Available for SE-300, SE-300W, DU-300, DU-300W, EK-300A, EK-300W)

Sensor technology

Digital MEMS microphone

Sound levels

LAeq (dBA), LCeq (dBC), LA10, LA90, LAmax, LZeq

Frequency spectrum

31 one-third-octave bands

Frequency range

20 Hz to 20 kHz

Frequency weightings

A, C, Z

Coverage

Up to 8m radius per device

Measurement range

26 to 128 dBA

Accuracy

±2.0 dB

Sensor output resolution

0.1 dB

Power

Supplied by host device, 50 to 60 µA average draw

Reporting interval

Sound levels every 1 minute, spectrum every 5 minutes

Sampling

Hardware enforced duty cycle, 87 ms per second