

Square Sound

The room sensor that also listens for noise: sound pressure level with threshold alarms, alongside precise temperature and humidity and ten years on one battery.

- SPL 45–92 dB · average and peak
- Threshold alarms · wake-on-sound
- LoRaWAN · NFC
- 4,000 mAh · 10 years battery
- Temperature & humidity · IP63

OVERVIEW

Square Sound measures sound pressure level in dB, both average and peak, and can raise an alarm when a threshold is crossed or wake on sound. It never records audio: only levels leave the device. Alongside it, precise temperature (±0.2 °C) and humidity (±1.8 % RH) sensing means one device covers acoustic comfort and indoor climate.

Use it where noise matters: classrooms, open-plan offices, hotel rooms and short-term rentals, where a night-time alarm can trigger a call before the neighbours do. 15 mm thick with a 4,000 mAh battery for ten years of operation, NFC for local set-up and Wi-Fi geopositioning to know where it is. Mount with the integrated adhesive or the optional screw kit.

WHY IT MATTERS

Levels, never audio
Reports sound pressure only. Nothing is recorded, so it can sit in a classroom or a rented flat.

Average, peak and alarms
Track trends over time or act on a threshold the moment it is crossed; wake-on-sound for event detection.

Climate included
Temperature and humidity from the same sensor as Square Comfort.

Ten years, no maintenance
4,000 mAh battery in the 15 mm housing.


Square Sound in use

Specifications are subject to change without notice in the interest of continuous product improvement.

Specifications

SENSING

Sensors	Sound pressure level, temperature, humidity
Sound range	45–92 dB SPL
Temperature accuracy	±0.2 °C
Humidity accuracy	±1.8 % RH

POWER AND HOUSING

Battery	Built-in $LiMnO_2$, 4,000 mAh, 10 years
IP rating	IP63
Operating temp	–20 to +60 °C
Dimensions	58 × 58 × 15 mm
Weight	55 g
Mounting	Adhesive, or optional screw mounting kit

CONNECTIVITY

Protocol	LoRaWAN 1.0.4, Class A, OTAA
Frequency	EU868 · US915 · AU915 · AS923-1 · AS923-2 · KR920 · IN865
Configuration	NFC (Android) and over the air; alternative VSM apps through the Hugin app or over LoRaWAN
Positioning	2.4 GHz Wi-Fi geopositioning via cloud service

TYPICAL USE

- Noise levels in open-plan offices and classrooms
- Night-time noise alarms in hotels and short-term lets
- Threshold alerts for noise compliance
- Indoor climate alongside the sound level
- Schools, hospitals and public environments
- Workplace well-being and acoustic comfort

WHAT EVERY SENSOR SHARES

Years on one battery

Ultra-low-power design, and cloud-side processing where it saves energy. Battery life depends on the sensor and how often it reports: well over ten years for most sensors.

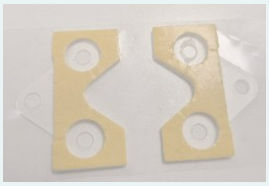
Configured over the air

Every sensor takes its settings over the air, so a change of reporting interval or threshold never means a ladder. Square, Square Xtreme, Puck and Prism can also be set up on site with an Android phone over NFC, and they run downloadable VSM apps: a sensor already on the wall can be given a new task without touching the hardware.

IN THE BOX · MOUNTING



Adhesive back



Square screw mounting kit

In the box

Square Sound, adhesive pre-applied on the back. No tools, no screws, no power supply.

Mounting

Adhesive, or optional screw mounting kit — the square screw mounting kit is sold separately.

MORE INFORMATION

Product page and downloads: sensative.com/sensors/square-sound
Manuals, payload decoders and integration guides: public.yggio.net/docs
Questions and quotes: sales@sensative.com · Buy: shop.sensative.com or a Sensative reseller

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