

Square Sound for LoRaWAN

Meet the elegant LoRaWAN sound sensor

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TAKE ACTION AGAINST INADEQUATE INDOOR ENVIRONMENTS!

The Square Sound is a multi-purpose **LoRaWAN multi-sensor** ideal for taking action against poor indoor environments and noise levels.

This complete unit features **temperature, humidity, sound, and air pressure** sensors, as well as **low power consumption** for up to **10 years** of battery life.

The sensor is also **location-aware**, making it ideal for mobile applications like trains, boats, caravans, etc., or notifying you if the sensor has been moved or removed. This functionality also simplifies installation and system configuration in the field.

The Square is **easy to mount** with the included adhesive or screws.



DESCRIPTION

SQUARE SOUND LORAWAN

Square Sound is an ultra-compact multi-sensor designed for monitoring sound levels and indoor climate in buildings and workplaces. It measures sound pressure levels (SPL), temperature, and humidity, enabling data-driven actions to improve comfort, productivity, and well-being.

By providing real-time, peak, and average sound measurements, Square Sound helps identify noise issues and trigger alerts when predefined thresholds are exceeded.

With a battery life of up to 10 years – designed for long-term, maintenance-free operation, it is ideal for continuous monitoring in professional environments.

TYPICAL USE CASES

- Sound level monitoring in offices and workplaces
- Noise threshold alerts and compliance monitoring
- Indoor climate monitoring (temperature & humidity)
- Schools, hospitals, and public environments
- Workplace optimization and well-being initiatives

Key advantages

- Accurate sound measurement – real-time, peak, and average SPL monitoring
- 10-year battery life – designed for long-term, maintenance-free operation
- Multi-function sensor – combines sound, temperature, and humidity
- Discreet and compact design – easy to integrate into any environment
- Easy configuration – via NFC using Sensative's NFC app for Android

Installation

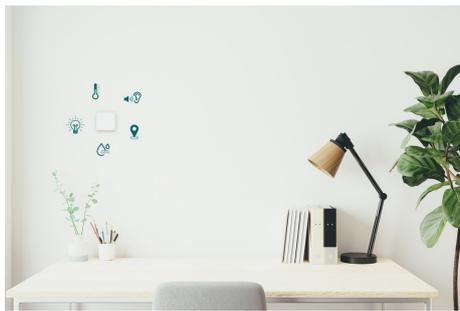
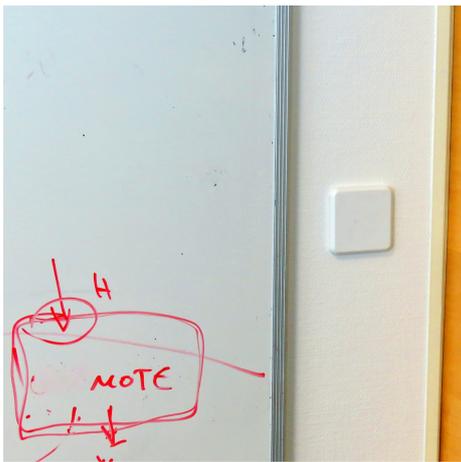
Square Sound can be mounted using the integrated adhesive for quick installation, or with the Sensative Square Screw Mounting Kit (optional) for secure and permanent mounting.

Smart geolocation (without GPS)

Square Sound supports cloud-based Wi-Fi geolocation, enabling positioning in indoor locations by scanning nearby Wi-Fi networks.

This functionality requires a compatible cloud service such as Sensative Yggio.

IMAGE GALLERY



SPECIFICATION

Application

Application	Asset management, Occupancy, Room sensor, Security, Temperature/Humidity, Sound level monitoring, Sound level alarms, Tracking
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Benefits

Benefits	Blend-in design, No maintenance (10 years), Long-range (2 km), Location-aware, Built-in data memory
In/Outdoor usage	Indoor

Features

Sensor	Geolocation, Humidity, Temperature, Sound Pressure Level (SPL)
Accessories	Cloud Positioning Service
Configuration	LoRaWAN OTAA, NFC
Geopositioning	WiFi 2.4 GHz

Connectivity data

Frequency	EU (868 MHz) or India (868 MHz) or US (915 MHz) or AU915 - Australia 915 - 928 MHz or AS923-1 - Asia 902 - 928 MHz or KR920 - South Korea 902 - 928 MHz or AS923-2 - Asia 923-925 MHz
Protocols / Connectivity	LoRaWAN, NFC
LoRaWAN version	V 1.0.4
LoRaWAN class	Class A

Sensor data

Temperature accuracy	+/- 0.2 °C
Humidity accuracy	1.8% RH
Sensor circuit	Sensirion SHT40, Vesper VM3011
Sound level range	45 - 91.5 dB SPL

Power supply

Powered by	Non-replaceable battery, LiMnO ₂ , 4 AH
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Operating Conditions

Operating range	-20 - +60 °C
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Mechanical data

Weight (g)	55
Width (mm)	58
Depth (mm)	15
Height (mm)	58

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