



Square Comfort for LoRaWAN

Meet the elegant LoRaWAN room sensor



The Square Comfort is a multi-sensor with **humidity**, **temperature**, and **geopositioning** for LoRaWAN.

With its **low power consumption** and long battery life of **up to 10 years**, it is the ideal choice for monitoring the climate of your property.

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

DESCRIPTION

SQUARE COMFORT LORAWAN

Square LoRaWAN Comfort is a family of ultra-compact sensors designed for high-accuracy temperature and humidity monitoring in indoor and sheltered outdoor environments.

It combines precision sensing, long battery life, and smart connectivity in a compact and versatile form factor—making it ideal for professional IoT deployments across buildings, logistics, and infrastructure.

The device is weather-protected and designed for reliable operation in demanding conditions, featuring a breathable membrane for air exchange and conformal coating of the electronics, ensuring long-term performance in humid and exposed environments.

Variants & form factor

Square Comfort is available in two hardware formats depending on battery capacity and use case:

- Slim version (S)
 - 58 x 58 x 7 mm
 - 750 mAh battery
- Extended version (P / DL)
 - 58 x 58 x 15 mm
 - 4.0 Ah battery

All versions deliver 10+ years battery life, depending on configuration.

Typical use cases

- Indoor climate monitoring (buildings, offices, residential)
- Greenhouses and controlled environments
- Cold chain monitoring (data logger version)
- Asset tracking with environmental data
- Monitoring in vehicles and sheltered outdoor environments

Key advantages

- High accuracy sensing – precise temperature and humidity measurement
- 10+ years battery life – designed for long-term, maintenance-free operation
- Weather-protected design – breathable membrane and conformal coating for reliable operation
- NFC-enabled configuration – quick and easy setup using Sensative's NFC app for Android
- Flexible form factor – choose slim or extended version based on use case
- Built-in data memory – enables reliable logging and historical analysis

Installation

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

Precision & data logging

A custom version of Square Comfort Data Logger (DL) is available for specific applications requiring enhanced accuracy and traceability. This version features an ISO 17025-calibrated Sensirion SHT4x sensor, ensuring high precision for demanding use cases such as cold chain monitoring and compliance-driven environments.

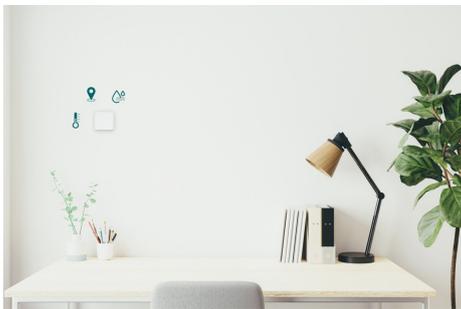
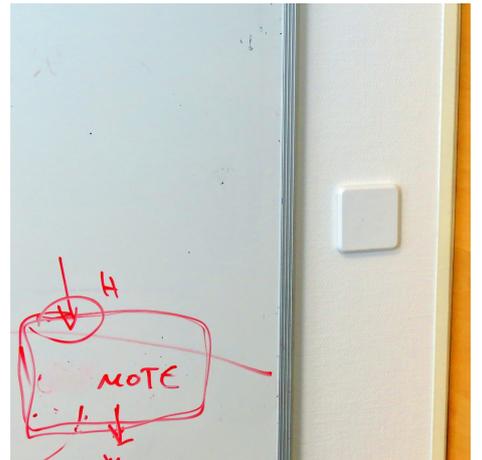
Smart geolocation (without GPS)

Square Comfort supports cloud-based Wi-Fi geolocation, enabling positioning in indoor or GPS-denied environments by scanning nearby Wi-Fi networks.

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

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IMAGE GALLERY



SPECIFICATION

Application

Application Room sensor, Asset tracking, Temperature/Humidity, Cold chain data logger

Benefits

Benefits Blend-in design, No maintenance (10 years), Simple installation & mounting, Location-aware, Long-range (2 km), Built-in data memory

In/Outdoor usage Indoor or outdoor protected use

Features

Sensor Humidity, Temperature, Geolocation

Configuration LoRaWAN OTAA, NFC

Geopositioning WIFI 2.4 GHz

Connectivity data

Frequency EU (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 IN865 - India 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

Power supply

Powered by LiMnO2, 4 AH or LiMnO2, 750 mAh

Powered by Non-replaceable battery

Operating Conditions

IP Class 62

Operating range -20 - +60 °C

Mechanical data

Width (mm) 58

Depth (mm) 7-15

Height (mm) 58

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