

Square Comfort

The room comfort sensor for heating control in offices, schools and homes: precise temperature and humidity in a slim square that blends in, with over ten years of battery life.

- ±0.2 °C · ±1.8 % RH
- 7 mm thin · no visible holes
- LoRaWAN · NFC
- 750 mAh · 10+ years
- Built-in data log · IP63

OVERVIEW

Square Comfort measures temperature to ±0.2 °C and humidity to ±1.8 % RH, behind a smooth front with no visible holes. The vents sit in the back edges, at two opposite corners, and are hidden once mounted. It is 7 mm thin with a 750 mAh battery, for over ten years of operation depending on the reporting profile. For the most demanding reporting profiles there is Square Comfort L, 15 mm with 4,000 mAh.

Built-in memory means no readings are lost: when Square Comfort has no LoRaWAN contact, it stores temperature and humidity in its data log and sends them when contact returns. That matters in vehicles, cold chains and places where coverage comes and goes. Wi-Fi geopositioning tells you where each reading comes from and flags a sensor that has been moved. IP63, for indoor and sheltered outdoor use, greenhouses and vehicles. Mount with the integrated adhesive, or with the optional screw kit.

WHY IT MATTERS

No visible holes
A smooth front with the vents hidden in the back edges, discreet enough for a boardroom.

7 mm thin
Slim enough to disappear on a wall, with 750 mAh. For the most demanding reporting profiles, take Square Comfort L.

Data log built in
No readings are lost while coverage is gone: the sensor stores them and sends them over LoRaWAN when it regains contact, in vehicles, cold chains and basements alike.

Knows where it is
Wi-Fi geopositioning labels each reading with a location and flags a moved sensor.


Square Comfort in use

Specifications

SENSING

Sensors	Temperature, humidity
Temperature accuracy	±0.2 °C
Humidity accuracy	±1.8 % RH

POWER AND HOUSING

Battery	Built-in $LiMnO_2$, 750 mAh, 10+ years
IP rating	IP63
Operating temp	–20 to +60 °C
Dimensions	58 × 58 × 7 mm
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
Memory	Built-in data log: readings stored while the sensor has no LoRaWAN contact are sent when contact returns
Positioning	2.4 GHz Wi-Fi geopositioning via cloud service

TYPICAL USE

- Indoor climate in offices, schools and homes
- Heating and ventilation control on measured comfort
- Greenhouses and controlled environments
- Cold chains and vehicles, with no readings lost without coverage
- Environmental data alongside asset tracking
- Vehicles and sheltered outdoor spaces

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.

Quality you can trace

SIDD (Sensative In-Device Diagnostics) keeps an internal quality record in every sensor. On Square, Square Xtreme, Puck and Prism it is collected automatically at each NFC read; Strips are read out physically. That gives traceability for a whole fleet instead of a sample.

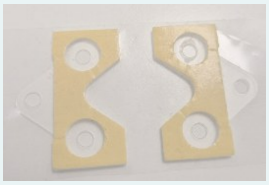
Works on any network. Better with Yggio.

Every sensor runs stand-alone on any compatible LoRaWAN network. Add Yggio and it becomes part of one governed operational layer, next to the rest of your devices and systems.

IN THE BOX · MOUNTING



Adhesive back



Square screw mounting kit

In the box

Square Comfort, 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-comfort
Manuals, payload decoders and integration guides: public.yggio.net/docs
Questions and quotes: sales@sensative.com · Buy: shop.sensative.com or a Sensative reseller

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