

Square Tracker

Find things indoors with Wi-Fi geolocation, plus air-pressure data that lets a service place the asset on the right floor. Motion-triggered, it runs for over ten years on one battery.

- Wi-Fi positioning · floor from air pressure
- Accelerometer wake-up · temperature
- LoRaWAN · NFC
- 750 mAh · up to 10 years
- 7 mm thin · IP63

OVERVIEW

Square Tracker scans nearby Wi-Fi access points and lets a cloud service resolve the position, which costs a fraction of the power of on-device positioning. It also reports air pressure: with fixed reference barometers in the building, a service such as Yggio can compare the readings and work out which floor the asset is on. A 3D accelerometer wakes the tracker when something moves or tilts, and a temperature sensor comes along.

It is 7 mm thin with a 750 mAh battery: ten years of battery life at 12 positions a day. For more frequent positions there is Square Tracker L, 15 mm with 6,000 mAh. It is built for hospitals, offices and facilities that need to find beds, instruments and equipment fast, without installing positioning infrastructure. Downloadable VSM apps let it take on new tasks in the field. Mount with the integrated adhesive or the optional screw kit.

WHY IT MATTERS

Indoors, where GPS is blind

Wi-Fi scanning plus cloud geolocation finds assets inside buildings, with no beacons or gateways to install.

Which floor?

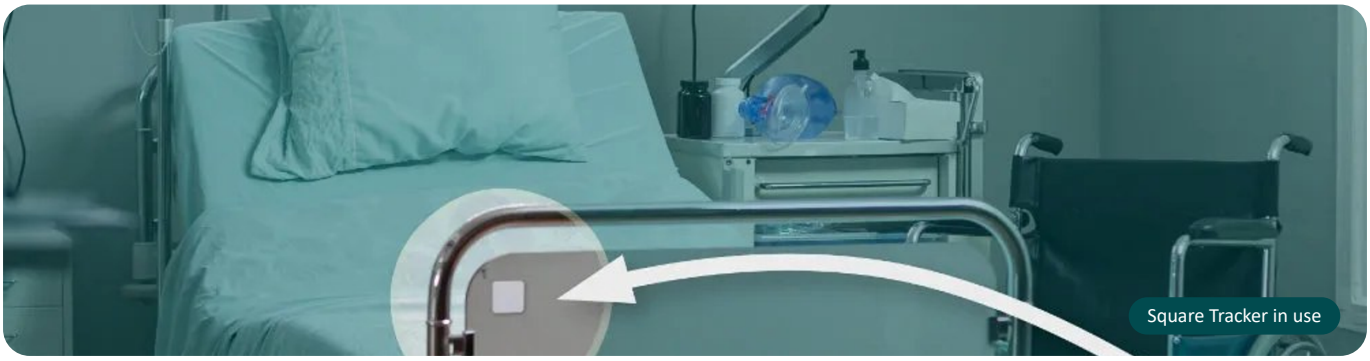
The tracker reports air pressure; a service compares it with fixed reference barometers in the building and places the asset on the right floor as well as on the map.

Reports when it moves

Motion-triggered positioning keeps the battery alive for up to ten years.

7 mm thin

23 g and 7 mm: it goes on things that have no room for a tracker. Need more positions a day? Take Square Tracker L.



Specifications

SENSING

Sensors	3D accelerometer, temperature (±2 °C), air pressure

POWER AND HOUSING

Battery	Built-in $LiMnO_2$, 750 mAh, 10 years at 12 positions a day
IP rating	IP63
Operating temp	–20 to +60 °C
Dimensions	58 × 58 × 7 mm
Weight	23 g
Mounting	Adhesive, or optional screw mounting kit

CONNECTIVITY

Positioning	2.4 GHz Wi-Fi access-point scanning, cloud geolocation; air pressure for floor estimation against fixed reference barometers
Memory	Built-in data memory
Reporting	Motion-triggered, periodic or on request
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

TYPICAL USE

- Beds, wheelchairs and pumps in hospitals
- Equipment and inventory in offices and facilities
- Which floor an asset is on, via air pressure
- Material flow between stations and buildings
- Theft and movement alerts on high-value items
- Loan equipment that must be found fast

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.

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.

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.

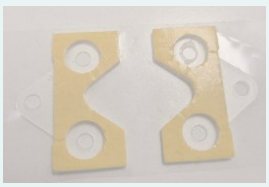
Works on any network. Better with Yggio.

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 Tracker, 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-tracker
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.