SENSATIVE
We make the power
of data possible.

PORTFOLIO

Z-WAVE
800

SMART HOMES

Explore the multiple dimensions of innovation, design, and IoT with Sensative Z-Wave sensors.

LORAWAN
SX1261
LR1110

APARTMENTS, BUILDINGS, CITIES & LOGISTICS

Professional sensors that are efficient, easy to install, and require almost no maintenance. And they look good.

+ACCESSORIES

SMART MADE SMARTER

Smart tools and accessories that simplify and extend the possible use cases.

IoT for homes: Z-Wave 800
IoT for cities and buildings: LoRaWAN

Sensative Z-Wave (800-series)

» Sub-GHz
» Meshed network up to 800 m range
» Long Range (LR) range up to 1.5 miles
» Smart start for easy provisioning
» OTA firmware upgrades
» S2 security
» 10-20 years battery life

Sensative LoRaWAN (SX61/LR1110)

» Sub-GHz
» Up to 10 km range @free line of sight
» Up to 2 km range in cities
» Up to 500 m & +/- 3 floors in buildings
» OTAA (Over the Air Activation & Configuration)
» AES encrypted network & application security
» Cloud assisted GNSS/Wifi positioning (LR1110)
» 7-15 years battery life

SENSATIVE SENSOR PORTFOLIO

To monitor and optimize property & city operations

LoRaWAN

Z-WAVE PLUS

STRIPS

Guard
Comfort
Presence
Drip
Oil

LoRaWAN

SQUARE

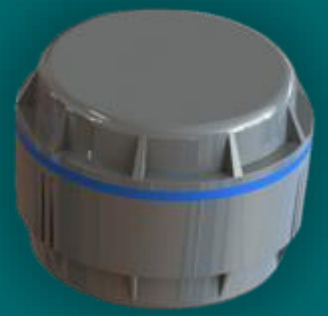
Comfort
Sound
Presence
Air
Trackers

LoRaWAN

DOTS

Tracker
From Q1-25

LoRaWAN



PUCK

Presence
Distance

USE CASES

COMMERCIAL BUILDING

- Energy optimization
- Comfort optimization
- Climate control
- Space utilization
- Asset tracking
- People tracking
- Security
- Blinds management

HOME

- Managed Smart Home/Apartment
- Safety/burglary/theft
- Comfort (Temp, CO2, light, sound etc)
- Mold risk detection
- Fire
- Asset tracking
- Septic tank level

CITY

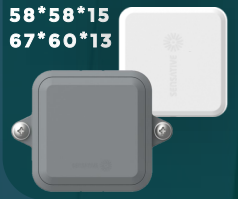
- Asset tracking
- People tracking
- Parking occupancy
- Level meters
- Public space safety & comfort
- Waste management

UTILITY/INDUSTRY

- Metering/Behind the meter
- Pro-active maintenance
- Grid monitoring
- People safety
- Water/Oil/XX leakage
- Gas leakage
- Level meters
- Security
- Asset tracking
- Level meters
- Parking occupancy
- Seat occupancy

SENSATIVE SENSOR PORTFOLIO

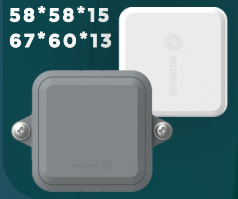
USP: Small form factor, designed for interior environment and long battery lifetime >10 years
UNIQUE FEATURES: NFC app as UI, position aware, multi-sensors

			Communication	IP Class
STRIPS 196*15*3		**GUARD**	Magnet sensor for doors & windows.	LoRaWAN, Z-Wave Plus	IP68
		COMFORT	Room sensor T/H & ambient light	LoRaWAN, Z-Wave Plus	
		PRESENCE	Desk occupancy sensor. Active IR sensor.	LoRaWAN	
		DRIP	Water leakage sensor for kitchen, bathroom, industrial etc. Capacitive sensor	LoRaWAN, Z-Wave Plus	IP68
		OIL	Water and oil leakage sensor for industrial, generators etc. Capacitive sensor	LoRaWAN	IP68
SQUARE 58*58*7 58*58*15 67*60*13		**TRACKERs**	Cloud supported 3D motion controlled GNSS/WIFI tracker	LoRaWAN, NFC	IP68
		COMFORT	Ultra-slim & position aware room sensor with Temp & Humidity sensors	LoRaWAN, NFC	
		SOUND	Position aware room sensor with T/H, light & sound sensors	LoRaWAN, NFC	
		PRESENCE	Motion and presence IR sensor up to 4 m with T/H/P & ambient light sensors	LoRaWAN, NFC	
		AIR	Air quality sensor with Air Q index, CO2e, bVOC, T/H/P and ambient light sensors	LoRaWAN, NFC	
DOTS 47*38*11		**TRACKER**	Tiny asset tracker for keyrings or glued/screwed to assets	LoRaWAN, NFC	IP68
PUCK Ø45*30		**RADAR**	60 GHz radar sensor to use as Parking occupancy or distance meter up to 6.8 m	LoRaWAN, NFC	IP67

SENSATIVE SENSOR PORTFOLIO

USP: Small form factor, designed for interior environment and long battery lifetime >10 years

UNIQUE FEATURES: Oil leakage, indoor and outdoor positioning, AI powered digital nose and real time radon measurement

		Magnetic	Temp	Humidity	Ambient light	Air pressure	Presence/ occupancy	Distance	Water leakage	Oil leakage	Sound Level/ Alarm	Gas/ Air quality	Indoor Outdoor positioning	3D Accelerometer	Communication	IP Class
STRIPS 196*15*3																
	GUARD(p)	✓	✓												LoRaWAN, Z-Wave Plus	IP68
	COMFORT	✓	✓	✓	✓										LoRaWAN, Z-Wave Plus	
	PRESENCE (pp)	✓	✓				✓								LoRaWAN	
	DRIP (p)		✓						✓						LoRaWAN, Z-Wave Plus	IP68
	OIL (pp)		✓						✓	✓					LoRaWAN	IP68
SQUARE 58*58*7 58*58*15 67*60*13																
	TRACKERs		✓			✓							✓	✓	LoRaWAN, NFC	IP68
	COMFORT		✓	✓									✓		LoRaWAN, NFC	
	SOUND		✓	✓	✓						✓		✓		LoRaWAN, NFC	
	PRESENCE		✓	✓	✓	✓	✓						✓		LoRaWAN, NFC	
	AIR		✓	✓	✓	✓						✓	✓		LoRaWAN, NFC	
DOTS 47*38*11																
	TRACKERs		✓			✓							✓	✓	LoRaWAN, NFC	IP68
PUCK Ø45*30																
	RADAR		✓				✓	✓					✓		LoRaWAN, NFC	IP67

(p) – patented (pp) – patent pending

SENSATIVE STRIPS SENSORS

GUARD
Magnet sensor for doors & windows

COMFORT
Room sensor with Temperature, Humidity & Ambient Light sensors. Data memory

DRIP
Water leakage & Temperature sensor

OIL
Oil & Water leakage + Temperature sensor

PRESENCE
Desk occupancy & Temperature sensor

Strips Family of Z-Wave sensors

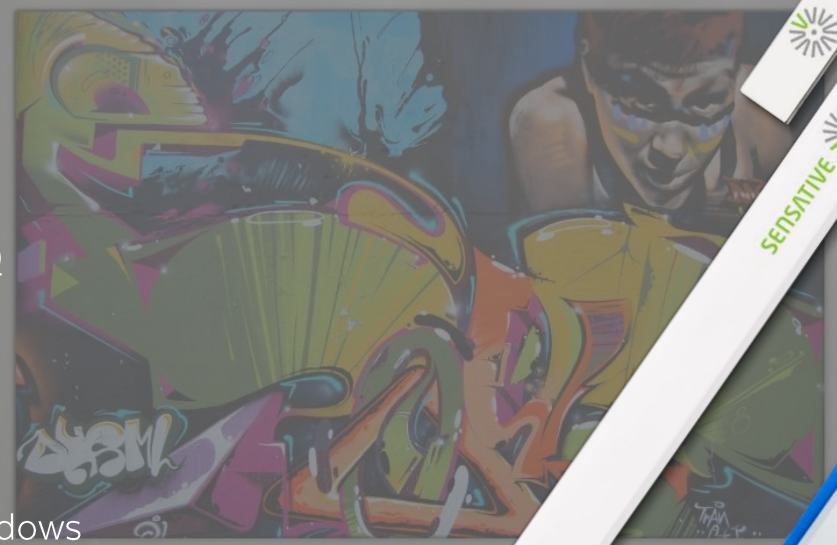
Smart Home sensors

Strips Z-Wave 800 series

- >10-year battery life
- 800m range (mesh)
- 1.5 miles range (Long Range/LR)
  SmartStart (fast and simple inclusion)
- S2 Security
- Compatible gateways

Three versions

- **Guard** magnet sensor for doors & windows
- **Drip** water leak & temp sensor, under sink, washing machines etc
- **Comfort** Monitor the room climate. Temp, humidity & ambient light. Use the slider button as a switch to turn on lights or any other action



STRIPS SENSORS FOR LoRaWAN®

Common features

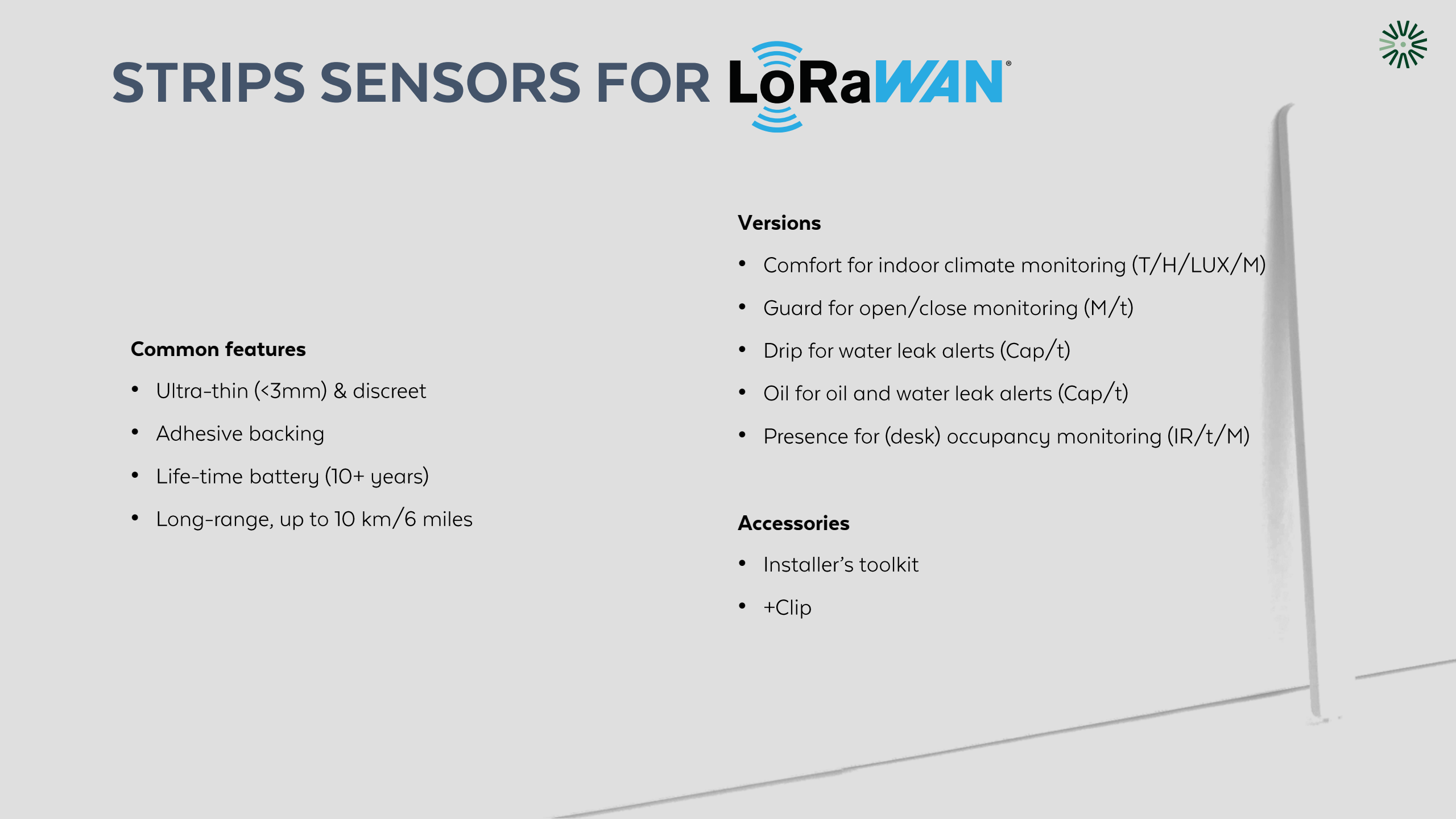
- Ultra-thin (<3mm) & discreet
- Adhesive backing
- Life-time battery (10+ years)
- Long-range, up to 10 km/6 miles

Versions

- Comfort for indoor climate monitoring (T/H/LUX/M)
- Guard for open/close monitoring (M/t)
- Drip for water leak alerts (Cap/t)
- Oil for oil and water leak alerts (Cap/t)
- Presence for (desk) occupancy monitoring (IR/t/M)

Accessories

- Installer's toolkit
- +Clip



Strips Presence

Desk presence sensor

- Active IR sensor
- Detect presence up to 70 cm
- Magnet sensor (supports Switch)
- Temperature sensor (+/- 1 degree in room temp)
- OTA Configurable
- > 10 years battery life
- Supports Strips Switch to support applications as
  - Indicate when desk cleaning is done
  - Light control
  - etc
- LoRaWAN v1.0.4

STRIPS MULTI-SENSOR +DRIP OIL FOR LORAWAN

- 4 mm thick
- Leakage alarm
- Oil leakage alarm
- Temperature sensor (+/- 2 °C)
- > 10 years battery life
- IP67
- Patent pending

SENSATIVE's LoRaWAN SENSORS w. GPS/WiFi Positioning & 3D Accelerometer

MODULAR

- Firmware with VSM (Virtual Sensor Machine)
- Downloadable sensor apps (OTA/NFC)
- Downloadable configuration (OTA/NFC)
- Battery options
- Sensor options

POSITION AWARE

- LR1110 chip-set
- Cloud supported positioning
- Outdoor (GPS/Beidou)
- Indoor (WiFi)

REMOTE

- UI
- Configurate
- Upgrade application
- Download AI models
- Over The Air (OTAA)
- Over NFC (Locally)
- Secure connection
- Device2Device connectivity
- Mesh connectivity

SMART

- Adaptable
- Programmable
- Pre-trained algorithms & AI models
- Built-in data memory

SQUARE ROOM SENSORS

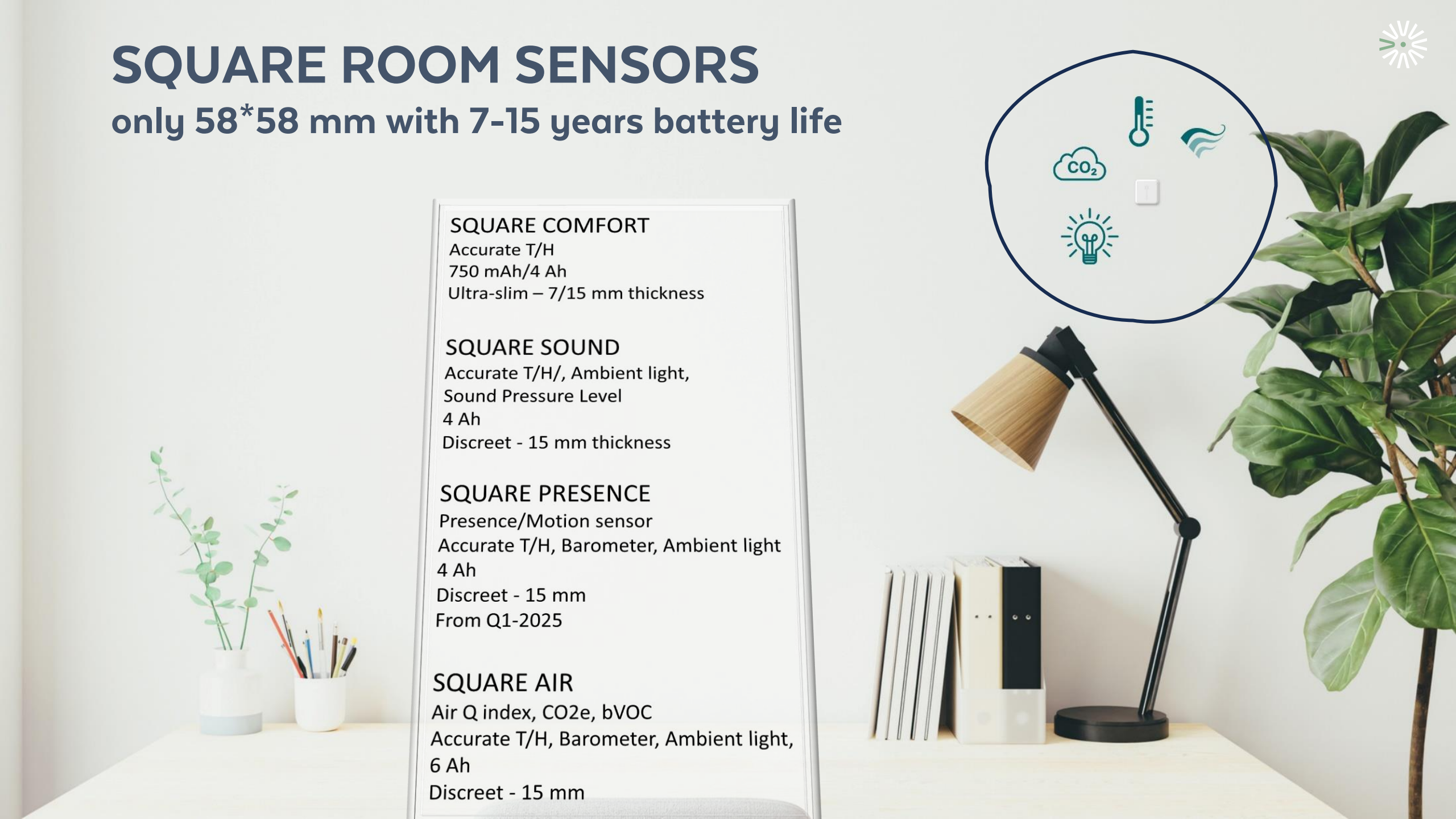
only 58*58 mm with 7-15 years battery life

SQUARE COMFORT
Accurate T/H
750 mAh/4 Ah
Ultra-slim – 7/15 mm thickness

SQUARE SOUND
Accurate T/H/, Ambient light,
Sound Pressure Level
4 Ah
Discreet - 15 mm thickness

SQUARE PRESENCE
Presence/Motion sensor
Accurate T/H, Barometer, Ambient light
4 Ah
Discreet - 15 mm
From Q1-2025

SQUARE AIR
Air Q index, CO2e, bVOC
Accurate T/H, Barometer, Ambient light,
6 Ah
Discreet - 15 mm



SQUARE COMFORT

Room comfort sensor

- Excellent to use as room comfort sensor for heating control in offices, schools or homes.
- Accurate temperature (+/- 0.2° C) & Humidity (1.8% rH) sensors
- Precision version available. Temp (+/- 0.1° C) & Humidity (1.0% rH)
- Position-aware using WIFI positioning. (Optional cloud service)
- VSM (Virtual Sensoring Machine) for sensor apps
- Configuration and app uppgrades/change over LoRa
- NFC for configurations, FW upgrades & sensor status
- 750 maH battery for 10-15 years battery life
- 4 Ah battery version available
- LoRaWAN (Semtech LR1110) v1.0.4
- 58*58*7 (15) mm, 750 (4000) mAh LiMnO2 built-in battery
- Mount with adhesive or screws

SQUARE SOUND

Room & sound level sensor

- Monitor sound level in schools, work, hotel-rooms or AirBnB
- Sound Pressure Level (SPL) sensor (dB). Average and Maximum SPL
- Alarms using SPL thresholds and wake on sound feature
- Excellent to use as room comfort sensor for heating control in offices, schools or homes.
- Accurate temperature (+/- 0.2° C) & Humidity (1.8% rH) sensors
- Position-aware using WIFI positioning. (Optional cloud service)
- VSM (Virtual Sensoring Machine) for sensor apps
- Configuration and app uppgrades/change over LoRa
- NFC for configurations, FW upgrades & sensor status
- 4 Ah built-in battery for >> 10 years battery life
- LoRaWAN (Semtech LR1110) v1.0.4
- Mount with adhesive or screws

SQUARE AIR

Advanced room sensor

- Excellent to use as room air quality for ventilation control in offices, schools or homes.
- Measures Air Quality Index IAQ and bVOC (level of exhaled air – breathable Volative Compounds)
- IAQ index as defined by Bosch (BME688). Weighted index based on multiple air contaminations.
- IAQ is a more expedient metric than CO2 for air quality and ventilation control
- Calculates CO2e (estimated CO2) based on bVOC levels.
- Square Air will not detect CO2 leakage from gas tanks, CO2 levels outdoors or any other CO2 from other sources than humans/animals breathing.
- Position-aware using WIFI positioning. (Optional cloud service)
- Temperature (+/- 0.2° C), Humidity, Ambient light (Lux) & Air pressure
- NFC & VSM
- Est. 6-7 years continuous measurements (ULP mode – 300 sec period). Up to 15 hours if used during office hours only. @Quarterly reporting + alarms. SF7.
- LoRaWAN (Semtech LR1110) v1.0.4
- 58*58*15 mm, 6 Ah LiMnO2 built-in battery
- Mount with adhesive or screws

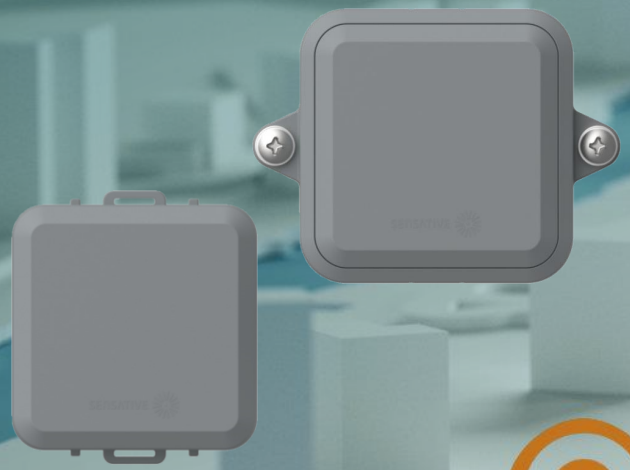
IAQ Index	Air Quality	Impact (long-term exposure)	Suggested action
0 – 50	Excellent	Pure air; best for well-being	No measures needed
51 – 100	Good	No irritation or impact on well-being	No measures needed
101 – 150	Lightly polluted	Reduction of well-being possible	Ventilation suggested
151 – 200	Moderately polluted	More significant irritation possible	Increase ventilation with clean air
201 – 250	Heavily polluted	Exposition might lead to effects like headache depending on type of VOCs	optimize ventilation
251 – 350	Severely polluted	More severe health issue possible if harmful VOC present	Contamination should be identified if level is reached even w/o presence of people; maximize ventilation & reduce attendance
> 351	Extremely polluted	Headaches, additional neurotoxic effects possible	Contamination needs to be identified; avoid presence in room and maximize ventilation

TRACKERS

Locate me or my assets

LIFEFINDER

DOTS LIFEFINDER
IP68
44*38*14 mm
0.9 Ah battery
Wearable



SQUARE Xtreme
IP68
60*64*13 mm + frame
4 Ah battery

DOTS Xtreme
IP68
47*38*11 mm
1.2 Ah battery
From Q4-24

SQUARE
Indoor
58*58*7/15 mm
0.75-6 Ah battery

- Cloud assisted positioning using GPS, Beidou & WiFi
- Motion controlled by 3D accelerometer
- NFC for local access with mobile phone as UI
- Up to 10 years battery life @ hourly positioning
- Install with adhesive, screws, cable ties, key ring or wristband

Optional sensors include

- Temperature sensor
- Barometer (Air pressure) for 3D positioning indoors
- Wake-on-sound detector
- Water sensors (man overboard)
- Alarm button

RADAR

Parking space occupancy sensor

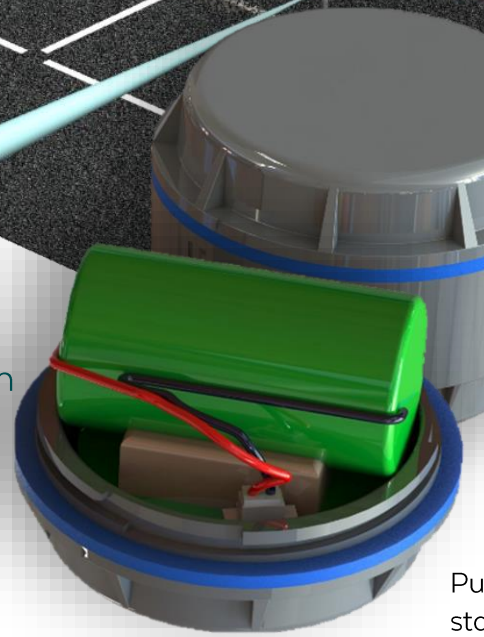
Distance sensor

- Level sensor for silos, tanks etc
- Snow level
- Waste bin and container levels

60 GHz pulsed coherent radar based on the Acconeer A111 sensor
0.3 – 6.8 m radar range with 10 mm accuracy
2 different lenses available for ±60 ° or 30° radar beam width
Temperature sensor
Position-aware using WIFI positioning. (Optional cloud service)
NFC & VSM
Downloadable & configurable radar algorithms for various applications
Up to 10 years battery life

IP67 with replaceable battery
IP69 permanently sealed closing available on demand

PUCK
Diameter 45 mm
Height 30/40* mm



Puck with standard lens

* Narrow lense

Use Case Example: Airport

Airport asset tracking for Airport

Business case: Optimization of airport service operations through tracking of wheel chairs, passenger transportation and luggage carts.

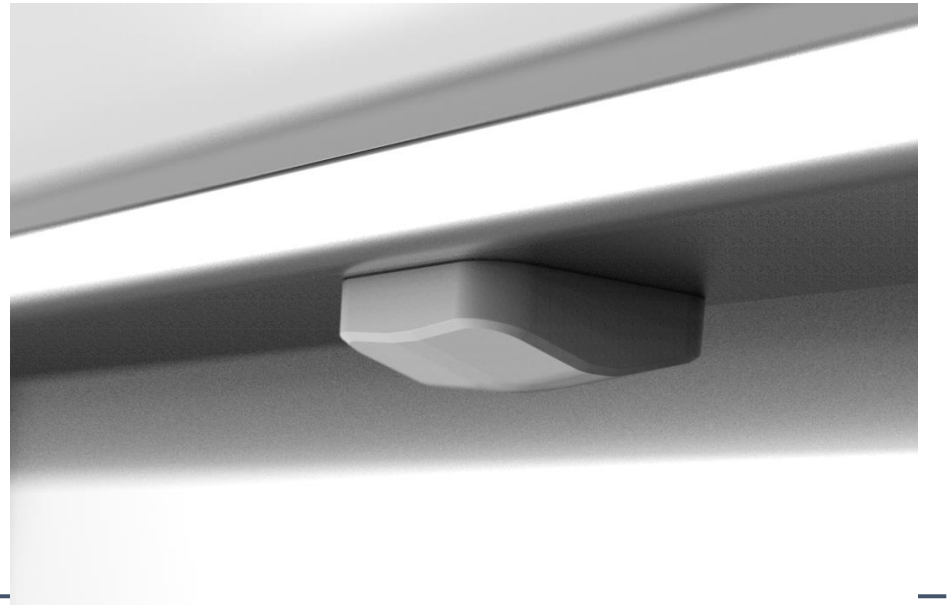
Solution: Sensative Square Tracker, Yggio Platform combined with Combain Indoor Positioning Service and a Sensative End-user App.

Use Case: Trains

Seat occupancy solution

Business case: Revenue optimization for passenger trains through knowing actual occupancy which allows for additional sales of seats.

Solution: Sensative Prism Presence Sensor (radar) combined with the Yggio Platform.



More Use Case Examples

Temperature Monitoring of Commercial Refrigerators & Cold Chains

Business case: Shop owners can avoid heavy penalties from health authorities and bad reputation in the market.

Solution: Sensative's Temperature Sensor with built-in data memory combined with the Yggio Platform, and a monitoring App.

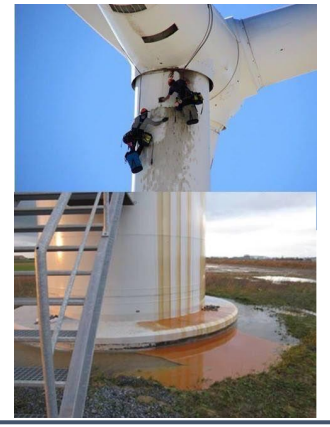
Benefits:
- Securing safety of food or medicine
- Traceability of temperature history

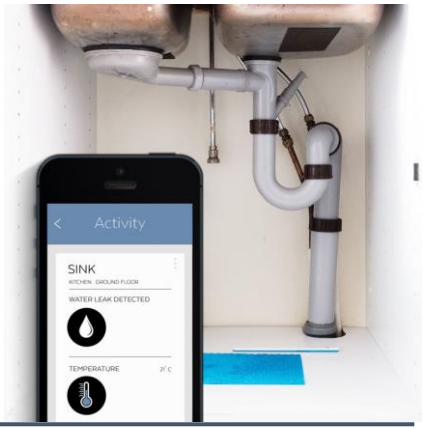
Detection of Liquid Leakages

Business case: Avoidance of cost of any liquid leakage damages such as damaged property, generators, or oil spill.

Solution: Sensative Drip Sensor combined with the Yggio Platform and a monitoring App.

Benefits:
- Automatic water/machine shut off
- Reduced damage





SENSATIVE
www.sensative.com

CREATING A SMARTER SOCIETY!

Mats Pettersson, CTO
mats.pettersson@sensative.com
+46 705 100 384

40-60%
IoT value lost without interoperability
(McKinsey)

250 000
Sensors delivered globally since 2015

>250
Customers being digitalized

>100
Customers running open unified IoT

"MOST INNOVATIVE IOT COMPANY IN EUROPE 2021"