

Smart 7

7-IN-1 ROOM SENSOR

A white, square-shaped room sensor device with rounded corners. It features a large circular sensor area on the top surface and a grey base.

Intelligent and Connected

On-board data analysis algorithm. Remote reading of measurements. All information is available in a secure cloud space.

Design

Facilitates product acceptance by occupants

Monitors 7 Key Parameters

Numerous built-in sensors continuously analyze the atmosphere. Valuable data for occupant well-being.



Carbon Dioxide

Monitors CO2 levels to ensure healthy indoor air quality



Volatile Organic Compounds

Quickly identifies excessively high VOC concentration levels



Temperature

For better indoor comfort. Measures ambient parameters in offices or homes



Humidity

For better indoor comfort. Measures ambient parameters in offices or homes



Presence

Motion sensor detects people up to 6 meters away. Useful for lighting, security or temperature control



Luminosity

Measures the amount of light in the room. Useful for controlling lighting or adjusting temperature more quickly according to sunshine levels



Noise

Measures noise and identifies noise pollution. Helps preserve a calm and peaceful environment



The on-board **iZiAiR algorithm** simplifies interpretation of the extensive data measured by the sensors. Useful, effective decision support for healthier air.

Functions

The Smart 7 is packed with features designed for ease of use, reliability, and occupant safety.

Signal Tone



An audible signal notifies occupants if Indoor Air Quality deteriorates. Can be activated / deactivated locally or remotely

Easy to Configure



Easy product adjustment via contactless NFC technology from a smartphone

Anti-Theft Detection



Triggers an alert message if the product is removed from its mounting base

Easy to Install



Free-standing on desk, wall or flush-mounted box. Adhesive mounting included

High-Performance Battery



Operates on replaceable lithium batteries. Up to 20 years(1) of autonomy

USB-C Socket



Universal connector for quick and easy power supply

Anti-Theft Protection



Lockable mounting base reduces risk of sensor removal

Regulatory Compliance

Direct-reading sensor compliant with French standards for measuring CO2 concentration in indoor air

Saves Measured Data



Integrated micro SD card. Up to 10 years of sensor measurements stored in memory. Useful in the event of a power cut

Clearly Visible Indicator Light



The Green / Orange / Red indicator changes with the CO2 level and alerts you when it's time to ventilate to renew the indoor air

Measurement Accuracy



No risk of measurement drift. Automatic weekly recalibration of CO2 sensor. Manual calibration possible

Calibration Certificate



Accuracy of CO2, temperature and humidity measurements validated by a COFRAC-accredited metrology laboratory

270° Air



Numerous side openings for better ambient air analysis

Instantaneous Measurements



Easy to operate, thanks to a button on the front of the sensor. Useful for occupants or technicians (function can be deactivated)

Enhanced Cyber Security



Data transmitted by the product is secured from end to end using double AES128 encryption

Reliable Data Transmission

Transmission modes adapted to every need, with redundant transmissions for high availability of critical data

Features & Technical Specifications

Sensor Specifications

Parameter	Resolution	Precision	Measuring Range
Carbon Dioxide	1 ppm	±(5 ppm + 3% value)	0 – 5 000 ppm
Volatile Organic Compounds	1 µg/m ³	25%	0 – 10 000 µg/m ³
Temperature	0.1°C	±0.2°C	-30°C – +70°C
Humidity	0.5% R.H.	±2% R.H.	0 – 100% R.H.
Luminosity	5 lux	±5 lux	0 – 5 000 lux
Noise	1 dB	±5 dB	35 – 120 dB
Presence (PIR)	Angle: 92° (Vertical and Horizontal)		Detection distance: 6m

Power Supply

2 battery slots · 1 USB-C socket

Data Transmission Mode

Periodic · Grouped data (datalog) with transmission redundancy

Reference & Radio

Reference: X565LS

Radio: LoRaWAN

Frequency: EU868 MHz

Conditions of Use

Indoor environment

Temperature: -20°C to +50°C

Humidity: 0% RH to 99% RH (non-condensing)

Mounting Type

Wall-mounted or free-standing

Box Content

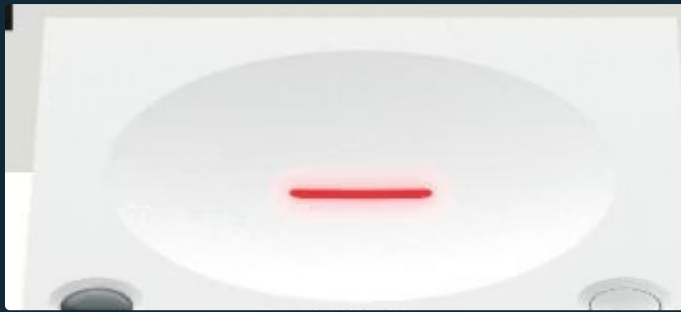
- 1 sensor
- 2 batteries included
- 1 mounting base
- 1 SD card
- 2 nylon screws and plugs
- 1 3M® adhesive fastener

Connectivity



Certification





Smart 7-in-1 Room Sensor

Image of the Smart 7-in-1 room sensor device with dimensions: 87 mm width, 23 mm height, and 87 mm mounting distance.
Net weight: 150 g (including battery).

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Sensors in 1

CO₂, VOC, Temp, Humidity,
Presence, Luminosity, Noise

20yr

Battery Life

Up to 20 years(1) of
autonomy on replaceable
lithium batteries

10yr

Data Storage

Up to 10 years of sensor
measurements stored on
integrated micro SD card

6m

Detection Range

Motion sensor detects people
up to 6 meters away

Warranty(2)

2 years Smart-Angel

Mostly recyclable product

*Battery life is not guaranteed and may vary according to
settings and use*

Smart-Angel

The Smart 7 is a **Smart-Angel** certified product — intelligent, connected, and designed for the well-being of building occupants. All information is available in a secure cloud space with on-board data analysis and remote reading of measurements.