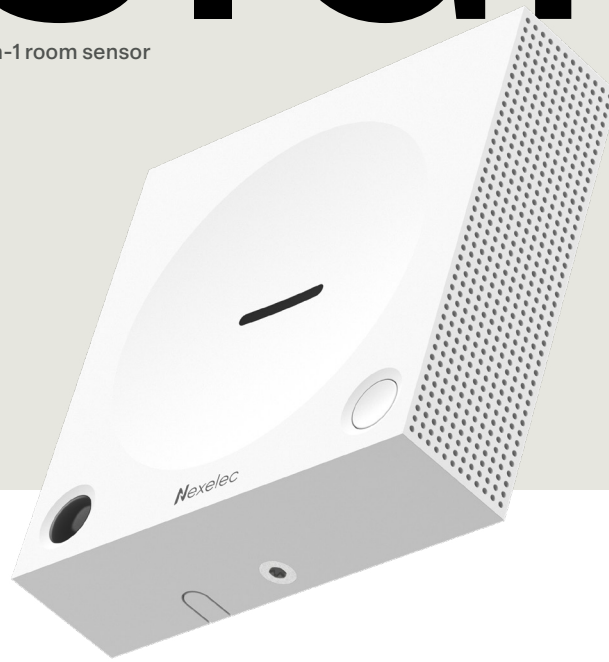


SIGN

7-in-1 room sensor

Discover product in details



Intelligent and connected



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

Nexelec

Design



Facilitates product acceptance by occupants

Carbon Dioxide

Volatils Organic Compounds

Temperature

Humidity

Presence

Luminosity

Noise

Monitors Indoor Air Quality

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

Controls VOC emissions

Volatile Organic Compounds are very present in indoor air. The VOC sensor quickly identifies excessively high concentration levels

Presence detection

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

iZiAiR assesses Air Quality

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

Detects and measures ambient light

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

Sound under control

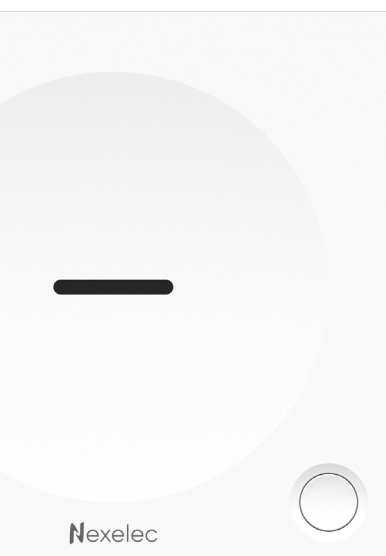
Measures noise and identifies noise pollution. Helps preserve a calm and peaceful environment

Reliable data transmission

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

Temperature / Humidity

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



SIGN

7-in-1 room sensor

Nexelec

www.nexelec.eu



87 mm

23 mm

87 mm

Net weight: 150 g (including battery)

Reference	Radio	Frequency
X565LS	LoRaWAN - Sigfox	EU868 MHz

FUNCTIONS



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



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



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



270° Air

Numerous side openings for better ambient air analysis



Instantaneous measurement

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



Anti-tear 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



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



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



Enhanced cyber security

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

FEATURES



Volatils Organic Compounds

Res.: 1 µg/m3
Prec.: 25%
Measuring range: 0 - 10 000 µg/m3



Presence

Technology: Passive infrared (PIR)
Angle: 92° (Vertical and Horizontal)
Detection distance: 6m



Luminosity

Res.: 5 lux
Prec.: ±5 lux
Measuring range: 0 - 5 000 lux



Noise

Res.: 1 dB
Prec.: ±5 dB
Measuring range: 35 - 120 dB

Carbon Dioxide

Res.: 1 ppm
Prec.: ±(50 ppm + 3% value)
Measuring range: 0 - 5 000 ppm

Temperature

Res.: 0.1°C
Prec.: ±0.2°C
Measuring range: -30°C - +70°C

Humidity

Res.: 0.5% R.H.
Prec.: ±2% R.H.
Measuring range: 0 - 100% R.H.

Power supply

2 battery slots
1 USB-C socket

Conditions of use

Indoor environment
Temperature: -20°C to +50°C
Humidity: 0% RH to 99% RH (non-condensing)

Data transmission mode

Periodic
Grouped data (datalog) with transmission redundancy

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

Certification



Connectivity



Warranty⁽²⁾

2 years

Mostly recyclable product

⁽¹⁾ Battery life is not guaranteed and may vary according to settings and use ⁽²⁾ Please refer to the information available on the www.support.nexelec.fr website