

RISE

3-in-1 room sensor

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discover product in
details



Nexelec



Connected



Remote reading of measurements. All information is available in a secure cloud space

Monitors Indoor Air Quality



The CO2 sensor analyzes the atmosphere every 5 minutes and informs if it is necessary to ventilate or close the window

CO₂ Carbon Dioxide



Temperature



Humidity

Temperature / Humidity

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

High-performance battery

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

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.

Regulatory compliance

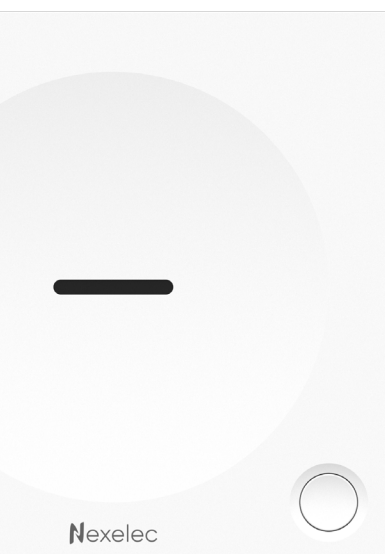
Direct-reading sensor compliant with French standards for measuring CO2 concentration in indoor air

Calibration certificate

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

Accuracy of CO2 measurement

No risk of measurement drift over time. Automatic weekly recalibration of the CO2 sensor. Manual sensor calibration is also possible



RISE

3-in-1 room sensor

Nexelec

www.nexelec.eu

87 mm

23 mm



87 mm

Net weight: 150 g (including battery)

Reference	Radio	Frequency
X520LS	LoRaWAN - Sigfox	EU868 MHz
X520LR	LoRaWAN	US915 MHz
X520LR_AU	LoRaWAN	AU915 MHz
X520LR_IN	LoRaWAN	IN865 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



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-theft protection

Lockable mounting base reduces risk of sensor removal



Easy to install

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



Anti-tear detection

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



270° Air

Numerous side openings for better ambient air analysis



Insect barrier

Product-integrated pest screen



Reliable data transmission

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



Enhanced cyber security

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



Design

Facilitates product acceptance by occupants

FEATURES



Carbon Dioxide

Res.: 1 ppm
Prec.: $\pm(50 \text{ ppm} + 3\% \text{ value})$
Measuring range: 0 - 5 000 ppm



Temperature

Res.: 0.1°C
Prec.: $\pm 0.2^\circ\text{C}$
Measuring range: -30°C - +70°C



Humidity

Res.: 0.5% R.H.
Prec.: $\pm 2\% \text{ R.H.}$
Measuring range: 0 - 100% R.H.



Connectivity*



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

Warranty⁽²⁾

2 years

Box content

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

Certification*



Mostly recyclable product

Power supply

2 battery slots

Data transmission mode

Periodic
Grouped data (datalog) with transmission redundancy

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