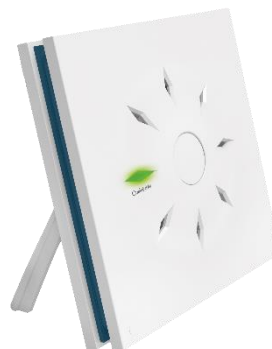


Carbon LoRa

Quick Start Guide

www.nexelec.fr





Where to install the product

Recommended places

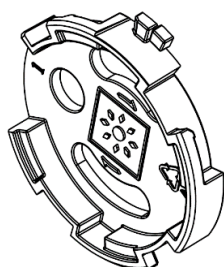
The equipment should be placed in a location representative of average exposure. Ideally, the product should be placed in a central location in the room, between 50cm and 2m high. Try to place it away from draughty areas (doors, windows, etc.) and away from areas close to heat sources (radiators, direct sunlight, etc.).

Places to avoid

- Less than 30 cm from the ceiling
- In the open air
- In a place where the temperature is below 0°C or above 50°C
- In a place where the humidity level is higher than 95% (bathroom, kitchen, laundry room, etc.)
- In a dusty or dirty place (garage, workshop, etc.)

How to install the product

Description of the assemblies



Mounting base for wall mounting Mobile mounting base for free-standing mounting

Mounting the detector on a wall

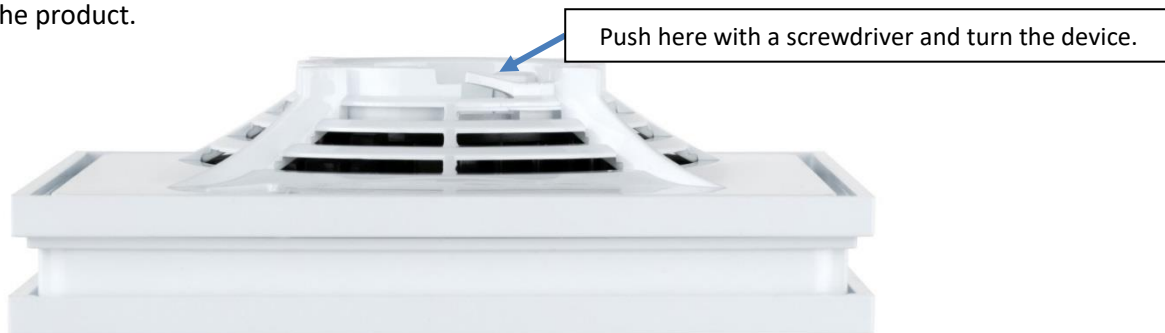
First of all, you have to choose if you want to activate the anti-theft system or not. If not, you can go directly to the section: installation of the mounting base.

[Activate and remove a product installed with the anti-theft system](#)

If you want to activate the anti-theft system, you have to break the tab of the fixing base with pliers.

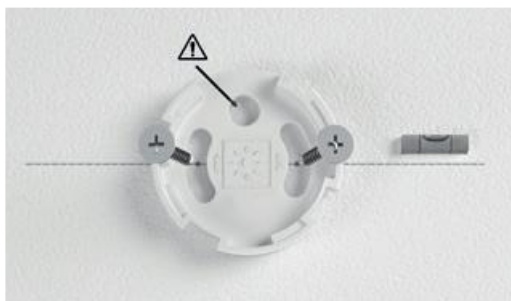


To remove a product with an activated anti-theft system, use a screwdriver to continuously push on the tab and rotate the product.



Installation of the mounting base

Use the mounting base and the screws and plugs supplied with the detector.
The product can also be mounted using the adhesive fasteners.



For screw mounting :

Mark the preferred location of the screw holes on the wall with a pencil. The drawing on the inside of the base shows the final position of the detector when attached.

Insert the supplied nylon plugs and screw on the mounting base

In case of adhesive mounting :

Place the adhesive on the mounting base and press with your finger for 10 seconds.

Remove the adhesive protection and stick the mounting base to the wall. Push with your fingers for 10 seconds. Wait 30 seconds: The adhesive works!

Place your detector on the mounting base, then turn it a quarter turn to the right to secure it.

You should hear a "click", indicating that your detector is secured in its mounting base.

Check that your detector is securely mounted on the wall.

Free standing

Use the mobile mounting base supplied with the detector.

Follow the procedure below:

Place the detector on a piece of furniture or a shelf within one meter of the floor to prevent damage if the detector is accidentally dropped.

Place your mobile mounting cradle on the back of the detector, then turn it a quarter turn to the right to secure it. You should hear a "click" sound, indicating that your detector is secured in its mobile mounting base.



How to start the product

Activation

To start your product, activate the single-use switch (1).

The product will initialize for 2 minutes (flashing orange then fixed green or red LED).



(1)

Connection to LoRa network (optional)

During the initialization phase, the orange LED flashes during the network connection process. The green LED will remain on during the initialization period if the process was successful, red otherwise.

If the initial connection attempt failed, the product will automatically retry. If unsuccessful, the product will automatically attempt to rejoin the network within a few minutes.

Turn off or reset the product

The detector has been designed for continuous use. The activation button becomes inaccessible after its first use. If for any reason you need to turn off or reset your product, a paper clip or small pliers will allow you to return the single-purpose switch to its original position. Then wait at least 1 minute before turning the product on again.

Initial detector calibration (optional)

Why calibrate the Carbon product?

The CO2 level measurement is performed using infrared sensor technology (NDIR: non-dispersive infrared). This optical technology has a drift that the product automatically compensates for using an ABS (Automatic Baseline Correction) method, which eliminates the need for manual maintenance and maintains performance throughout the life of the product.

This method is effective and reliable in a usual environment, where the CO2 level reaches its minimum (400ppm) during a few hours (night and weekend for the premises, day in a room).

This calibration is performed automatically every 8 days.

How to calibrate the Carbon product?

You can also perform a manual calibration. To do so, please use the following procedure:

Place your product near an open window for at least 2 minutes

Press the central button of the product 6 times quickly

The green LED lights up during the entire product calibration process (approximately 8 seconds). Once the LED goes out, the recalibration is complete.

LED Air Quality Indicators

The air quality LED indicator flashes to give the user direct feedback on the air quality level:

- Red: Air quality warning (CO₂ > 1700ppm)
- Orange: Air quality is average (CO₂ between 1000 and 1700ppm)

This indicator can be disabled using the NFC application or the online service.
You can press the central button to get the air quality indication.