



General Description

Ingenium autonomous air quality sensor, CA-AUT, is a CO₂ level concentration detector suitable for indoor spaces such as classrooms, offices, conference rooms, etc.

An acceptable air quality should never exceed the limit of 1000 ppm of carbon dioxide. This sensor allows to measure the concentration of said gas in the air in order to take measurements (natural ventilation, artificial ventilation, equipment disinfection...) before reaching inappropriate values.

In the central part of the device, there are two internal LEDs, red and green, which indicate:

- Green LED on (<700 * ppm): optimal air quality.
- Green LED flashing (700 - 1000 * ppm): good air quality level.
- Green and red LEDs on at the same time (1000 - 1500 * ppm): acceptable air quality level.
- Red LED on (1500 - 2000 * ppm): bad quality level.
- Red LED flashing (2000 - 2500 * ppm): poor air quality level.
- Red LED flashing + sound emission (> 2500 * ppm): unacceptable air quality level.
- Green and red led flashing simultaneously: faulty sensor.

*CO₂ limits at each level are not modifiable.

Characteristics

- Ultra-low power digital sensor for air quality measurement.
- It allows to measure the CO₂ level of the room where it is located.
- It has an audible warning through a buzzer built into the device.
- It emits several beeps when switching from one range to another:
 - o 3 beeps when exceeding 700 ppm
 - o 5 beeps when exceeding 1000 ppm
 - o 7 beeps when exceeding 1500 ppm

- o 9 beeps when exceeding 2000 ppm
- Once the 2500 ppm limit is exceeded, the red indicator LED will flash and the buzzer will sound for 10 seconds. If after 4 minutes, the red LED continues on, the buzzer will be activated again for 10 seconds, and so on.
- Direct connection to power outlet.
- Automatic self-calibration.

Technical Information

Supply: 230 Vca.

CO₂ measuring range: from 0 to 25000 ppm

Size: 58 x 63 x 30 mm

Mounting: direct connection to power outlet

Temperature range: Functioning: from -10°C to 55°C. Storage: from -10°C to 80°C.

Relative humidity range: 10% - 95% (no condensation).

Regulation - According to the directives of electromagnetic compatibility and low voltage. UNE-EN 61000-3-2:2006 / UNE-EN 61000-3-3:2013. RED 2014 / 53 / UE.

Recommended location

This sensor plugs directly into an outlet / plug. Once connected for the first time, it takes **20 min to calibrate**.

Due to the density of CO₂ is higher than the density of air, CO₂ tends to concentrate near the ground. Therefore, it is recommended to place the measuring device at the height of the air we breathe, between 1 m and 1.5 m from the ground.

It is recommended that it is not installed near a window or drafts, as the measurement could be altered.

More info

