



General description

Ingenium air quality sensor, CA-IoT, is a detector that measures CO₂ and VOCs (volatile organic compounds) level concentration, temperature and humidity suitable for indoor spaces such as classrooms, offices, conference rooms, etc. It has Wi-Fi connection, which allows to display the measures from the cloud through Ingenium free app.

An acceptable air quality should never exceed the limit of 1000 ppm of carbon dioxide, therefore this sensor is useful.

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.
- Red LED flashing + sound emission (> 700 * ppm): unacceptable air quality level.
- Green and red led flashing simultaneously: faulty sensor.

* Default value that the user can modify through the web tool.

Characteristics

- Ultra-low power digital sensor for air quality measurement.
- It allows to measure the CO₂ and VOCs level, temperature and humidity of the room where it is located.
- It has a blue indicator led for Wi-Fi connection on one side of the device.
- It has an audible warning integrated into the device. Once the programmed 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.
- Data registration and storage in the cloud, which can be viewed through the free Ingenium App or URL.
- Direct connection to power outlet.

- Automatic self-calibration.

Technical information

Supply: 230 Vca.

CO₂ measuring range: from 0 to 25000 ppm

VOCs measuring range: from 0 to 25000 ppm

Temperature measuring range: -25°C to 75°C

Humidity measuring range: 35% - 95%

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

