



## General description

Ingenium air quality sensor, CA-IP, is a detector that measures CO<sub>2</sub> and VOCs (volatile organic compounds) level concentration, temperature and humidity suitable for indoor spaces such as classrooms, offices, conference rooms, etc. Once the sensor is connected to the Wi-Fi network, it records and stores the data on a local server connected to the same Wi-Fi network. These data can be consulted through a specific URL in a web browser, so that the level existing in the installed room can be known at any time, taking the appropriate measures in case of exceeding the previously configured limits.

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 CO<sub>2</sub> 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 recording in graphs, being able to be displayed through an URL on web browser.
- Direct connection to power outlet.
- Automatic self-calibration.

## Technical information

**Supply:** 230 Vca.

**CO<sub>2</sub> 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 CO<sub>2</sub> is higher than the density of air, CO<sub>2</sub> 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

