

Class'Air Indoor Air Quality Monitor

CO2 Monitor | NDIR Sensor |
Calibrated



Class'Air

Loyal clients for over 10 years

Our Class'Air solution developed in collaboration with the Scientific and Technical Building Centre (CSTB) and the Indoor Air Quality Observatory (OQAI) is already being used by clients including supervisory bodies, accredited laboratories, schools in France and other European countries, businesses, local authorities...

«We have had excellent feedback from our teams about the solution. The monitor is intuitive and easy to use. Our Class'Air monitors are used more than ever before for warning and prevention when the air quality is close to the recommended levels and the air must be refreshed.»

9th Arrondissement Council, Paris



Indoor air quality: a public health issue

Monitoring indoor air quality is a key health concern for public and private organisations.

The higher a room's CO₂ level, the greater the risk of pathogens and viruses such as Covid being transmitted.

Therefore, for health reasons, it is important to refresh the air regularly and to air out rooms. Airing out rooms is also something that can be done to help stop the spread of Covid.

Current regulations for schools

France's Ministries of the Environment and Health have been monitoring indoor air quality since 2015.

Under the regulations, pollutants need to be measured by an accredited body or the indoor air quality needs to be self-assessed..

Links have been demonstrated between poor ventilation leading to higher CO2 levels and reduced concentration.

Guide values reflect the amount of CO2 in a closed space, with the aim of preventing and reducing the harmful effects on health.

- Below 1000 ppm: good air quality.
- Between 1000 and 1700 ppm: average air quality, so it would be useful to ventilate the room.
- Above 1700 ppm: bad air quality, so the room must be ventilated or aired.

CALENDAR

French Decree no. 2 2015-1000 of 17 August 2015 set the following deadlines:

- 1 January 2018 for nurseries, primary schools and crèches.
- 1 January 2020 for leisure providers and secondary schools.
- 1 January 2023 for other establishments open to the public.



The pandemic

Airing out rooms is a key Covid measure that helps to prevent viral transmission.

With the arrival of Covid, the CO2 level in the air should be measured in canteens and dining halls, classrooms, offices and establishments open to the public.

Our recommendations

1 monitor for around every 50 sq. m.

1 monitor per classroom.

3 monitors per dining hall, carefully placed to give a precise idea of levels.

1 monitor for various rooms is better than no monitor. It is possible to move a monitor around while you wait for every room to have its own.



Due to the pandemic, the required maximum value has been reduced to 800 ppm.

Class'Air, the leading indoor air quality monitor

Class'Air is an educational tool that shows when a room needs to be aired out with its simple and intuitive display indicating CO2 levels in real time.

All our Class'Air monitors come with a calibration certificate to prove they are reliable.



Autonomous

Class'Air takes a rechargeable battery. With normal use, it has a 9-month battery life.



Simple and intuitive

The monitor can be used and set up via the device or the associated software.



Education

The LED indicator lights show when a room needs to be aired out due to the CO2 level.



French solution

Class'Air is a French solution designed and made by our teams based in Pyrénées-Orientales..



Real-time monitoring

The monitor measures CO2 levels, temperature, humidity and pressure in real time.



High précision

Our CO2 monitor uses an NDIR sensor for precise and reliable measurements.

Class'Air, bespoke solutions



For regular measuring

Record option

Thanks to the measurement recording function, the monitor helps clients comply with the French decree on monitoring indoor air quality by regularly measuring the air in classrooms.

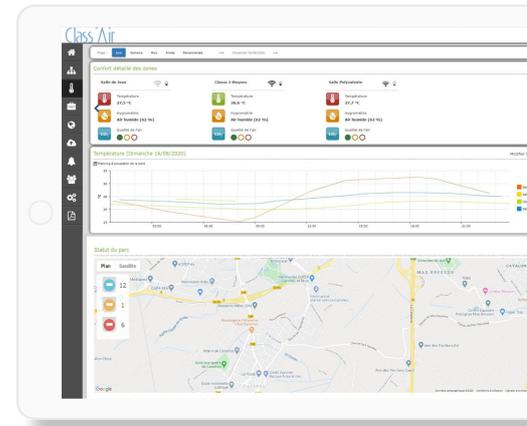
The Class'Air software collects and processes the data, calculates air stuffiness (ICONE index) and produces reports.

For remote monitor supervision

IoT connectivity option

Thanks to LoRa connectivity, the smart monitor allows clients to see data in real time, manage monitors remotely on the online platform and create email and text alerts. The smart Class'Air device is battery-powered with a battery life of around 2 years.

Please contact us if you are interested in installing smart monitors for more information about subscriptions and regional eligibility.



Technical features



NDIR sensor

(Nondispersive infrared sensor)

Dual-beam sensor

High precision
(50 ppm + 3% of
measured value).



Calibration

All our Class'Air
monitors come with a
calibration certificate.



Use

Downloadable settings
module (provided).
(fourni).

Measurements taken

Carbon dioxide CO2:
0 to 5000 ppm. Temperature: -10
to +50°C. Humidity: 0 to 100% RH.
Pressure: 300 to 1100 hPa.
Configurable measurement period:
1 average reading per 10 minutes by
default.



Visual and sound indicators

3 LEDs (red, orange, green) with
configurable thresholds.
Screen showing temperature, CO2,
pressure and humidity.
Configurable sound signal when upper
threshold is reached.
LEDs and sound signal can be activated
and deactivated.

Size :

93.7 x 103 x 36.6 mm
Weight 175 g

Accessories



▶ **Mounting bracket** *(provided)*:

- Wall mount

▶ **Personalisation options**

(prices available on request)

- Personalise the front of the monitor
- Specific presets
- Security system



Case Study

Aix-les-Bains

The town of Aix-les-Bains shares its experience installing Class'Air monitors in its schools.

Regulations on monitoring indoor air quality provide for initiatives aimed at improving indoor air quality. What did you decide to do at your schools?

“After the decree from the Ministry for the Ecological and Solidarity Transition, we first analysed what our establishments were already doing. Then, we decided to introduce the action plan in the form of a practical guide provided by the ministry in order to take a proactive approach to monitoring indoor air quality at our schools and nurseries, and to raise awareness among everyone affected by the issue.”



Mr Rey from the Aix-les-Bains technical team shares his experience of installing Class'Air monitors in schools.

How did you deploy Class'Air monitors to measure air stuffiness levels at your schools?

“When the action plan was introduced, we installed Class'Air Datalogger monitors to measure levels. We also fitted all of our 90 nursery and primary classrooms with permanent educational monitors to raise awareness about the need to air out rooms.”

How do you use Class'Air monitors at your schools?

“Our technical team set up monitors with Datalogger in classrooms to take regular measurements so that we can monitor levels. Educational monitors are installed to show staff how stuffy their classrooms are throughout the day. We have seen less stuffiness with the ICONE index significantly lowering as a result.”

In the media



BFM TV. 06.03
LILLE (NORD)
Hier

ÉCOLE : LE CAPTEUR DE CO2, ARME ANTI-COVID ?



Class Air

The leading CO2 monitor

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