

Air Quality & Containment

We spend more than 80% of our time indoors, and the air we breathe is not always of good quality. Improve air quality in your buildings with SMATI.

The solution

- + Autonomous sensor for CO2 measurement.
- + ICONE containment indicator created by the CSTB.
- + Automatic alerts and notifications.
- + Trusted solution referenced **UGAP**.

The Benefits

- + Regulatory compliance and occupant information.
- + Implementation of a program of preventive actions.
- + Limitation of asthmatic and allergic reactions.
- + Limitation of the decrease in cognitive or psychomotor performance.
- + Decrease in absenteeism.

What the regulations say

- The environmental code recognizes the right of everyone to breathe air that is not harmful to his or her health (C. envir., art. L. 220-1). For example, relative humidity must be between 40% and 60% at 20°C and CO2 less than 1000ppm.
- The law (articles L. 221-8 and R. 221-30 et seq. of the Environment Code) on national commitment to the environment has made it mandatory to monitor indoor air quality in day care centers, day care centers, leisure centers and schools.

Did you know that?

Poor indoor air quality can lead to symptoms such as headaches, fatigue, eye, nose, throat or skin irritation, dizziness, allergies or asthma.

Smati application

- Collection, processing and restitution of input and output temperature data.
- Immediate visualization of the installation situation.
- Display of the evolution of the temperatures in real time.
- Pre-configured and easily configurable notification alerts.
- Possibility to define different access and use rights.



Sensor: NKE Vaqa'O

- > 3 years of autonomy.
- Measuring ranges / accuracies :
 - Temperature: +0°C to +55°C / $\pm 0.2^\circ\text{C}$
 - Hygrometry 0% to 100%rH / $\pm 2\%$.
 - CO2: 0-5000ppm/ $\pm 100\text{ppm}$
 - VOC index: 0 to 500 / ± 5



Connectivity: Objenius by Bouygues Telecom

- 1st national network dedicated to connected objects.
- 95% of the population and more than 30,000 municipalities covered.
- 100% integrated into the SMATI environment.

* depending on transmission frequency and coverage