



Zaack

INTERNET OF AIR METROLOGY

IoT solutions for Indoor Air Quality

www.zaack.io

Zaack, an innovative start-up



Corporate Social Responsibility (CSR)

- Health, comfort and well-being of occupants
- Risk prevention

Economic impact of good IAQ

- Performance and productivity enhancements
- Lower absenteeism
- Opposable data
- Energy savings and better risk assessment
- **PREDICTIVE MAINTENANCE**

Our Innovative Solutions



Our products are MADE IN FRANCE (design and production)

Our partners and suppliers are exclusively European

Zaack DUST®



Zaack IAQ®



Zaack CR®



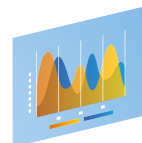
5 to 10 times more air pollution indoors compared to outdoor air



21 Billions \$ annual socio-economical cost of bad indoor air quality in France, taking into accounts only 6 pollutants ⁽¹⁾



80 to 90% of our time is spent indoor or in semi-closed environments ⁽²⁾



8 Millions deaths worldwide, directly attributable to air pollution in 2016
3,8 Millions premature deaths linked to indoor air pollution

Zaack CR®, particle count monitoring in clean rooms and controlled environments



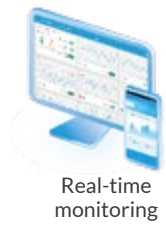
Zaack CR® monitors in real-time the particle count of 5 regulated channels for your clean room: **> 0,3 µm • > 0,5 µm • > 1 µm • > 2,5 µm > 5 µm**. It provides data that helps you control ventilation effectively and cut energy consumption, and get ready for qualifications and certifications.



1) Estimates by ANSES for 2014
2) Source: WHO in 2018

Zaack IAQ[®], pilot of your Indoor Air Quality

Zaack IAQ[®] provides real-time measurements for Carbon Dioxide (CO_2), Carbon Monoxide (CO), Nitrogen Dioxide (NO_2), Ozone (O_3), Total Organic Volatile Compounds (TVOCs), Particulate Matter (PM_{10} , $\text{PM}_{2.5}$, PM_{10}) and comfort parameters (Temperature, Relative Humidity, Atmospheric Pressure).



Real-time monitoring



Custom built based on your needs



Programmable Thresholds and Alerts



Prediction



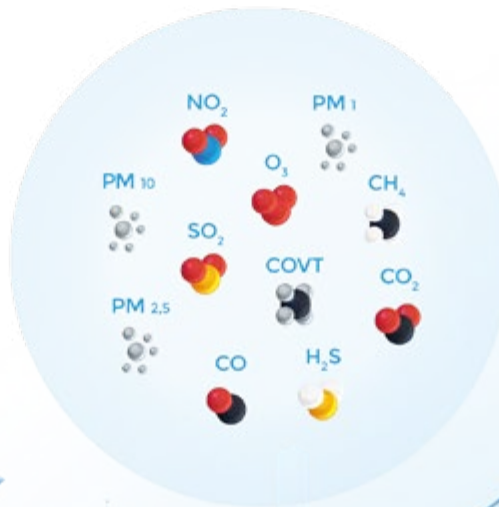
Can connect with your BMS (Business Management System)



Secure Cloud Storage: Data is stored on the Google Cloud Platform, and remains the property of our clients.



Outdoor pollution through open source data

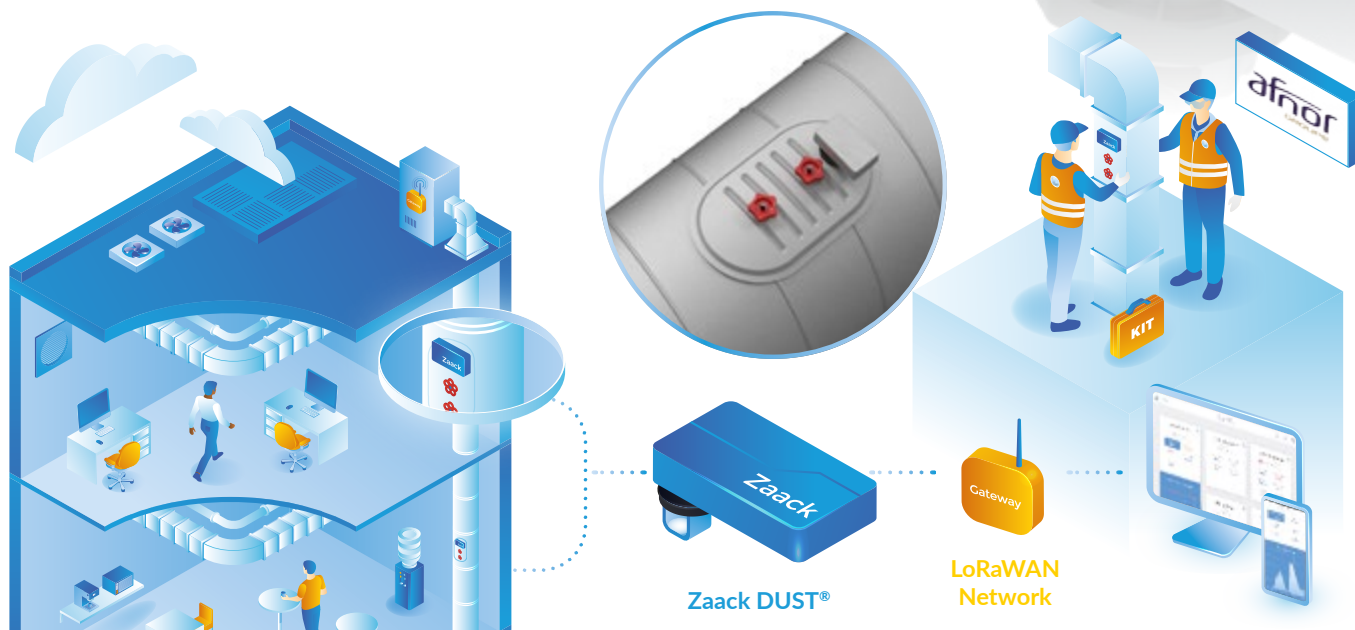


Zaack IAQ[®]
Real-time IAQ data sent to the cloud over WIFI, Ethernet (4G optional)



Zaack DUST®, Real-time monitoring of dust accumulation in ventilation networks with an integrated access door

Proper maintenance and timely cleaning of ventilation systems is key to a good IAQ (NF EN 15780 standard).



Zaack, a complete service package, always there for you



Your data

- Secure Cloud Storage
- Available on demand



Data access

- Real-time access everywhere
- Threshold overshoot alerts
- Bookmarks for personalization
- Printable reports on demand



Expert advice

- Remote counselling and diagnostics
- Recommendations
- On-site intervention if needed



High Quality monitoring

- One sensor per pollutant
- 11 parameters measured



Prior to installation

- On-site diagnostics
- Selection of the optimal location
- Installation and configuration



Maintenance

- Immediate replacement with another unit in case maintenance is required
- Remote updates
- Yearly calibration (leasing or contracted)
- Alerts in case of connection failure

Zaack, a well-known player

Zaack's Awards



Zaack Members & Partnership



Vice President of Fimea
President FIMEA Ile-de-France



Urban Lab