AIR QUALITY MONITORING NODE BETTAIR

We provide a high-precision, large-scale mapping tool for Smart cities and other scenarios.

A network of static nodes is easily installed in street furniture, forming a dense matrix that allows high spatial and temporal resolution to be achieved.

Bettair® static nodes measure various air quality indicators, including NO2, NO, CO, O3, SO2, H2S, CO2, PM10, PM2.5, PM1.0, as well as ambient noise level and other environmental parameters.

The nodes include 3G/4G/5G connectivity, NB-IoT, LoRaWAN or any other wired connection that is necessary.

Bettair® nodes do not need to be calibrated in situ. The algorithms are based on unsupervised machine learning techniques that are applied to the raw data provided by gas sensors to achieve exceptional performance for low concentrations (parts per billion, ppb).

The bettair® software platform allows the visualization of nodes as well as their status in real time. In it you can view all the data sent by each device. The bettair® platform also allows you to view a heat map for each pollutant, as well as the Air Quality Index.

Featured Features:

Dust and water resistance (IP65 certification)
Low consumption electronics
Access to low power wireless networks

What do the nodes measure?:

Temperature
Relative Humidity
Ambient noise
Atmospheric Pressure
PM1, PM2.5, PM10
NO2, NO, SO2, CO, O3
H2S, CO2, VOC

Operating Temperature:

-10 ºC a +40ºC

Relative Humidity:

Up to 95%, without condensation.

What can you do with Bettair?

- *Mitigate air pollution.*
- *Identify unknown sources of contamination.*
- *Evaluate the impact of environmental measures.*
- *Reduce the costs of air pollution.*
- *Categorize areas according to their air quality.*
- *Predict air pollution episodes.*
- *Monitor climate change.*

*The design of the sensor cartridges allows all sensors to be easily changed when required and **does not require in-situ calibration.***