

AirGuardian : Air Quality Monitoring for safer and more sustainable cities

Measure to decide. Monitor to improve.

V.1.0-2026/EN



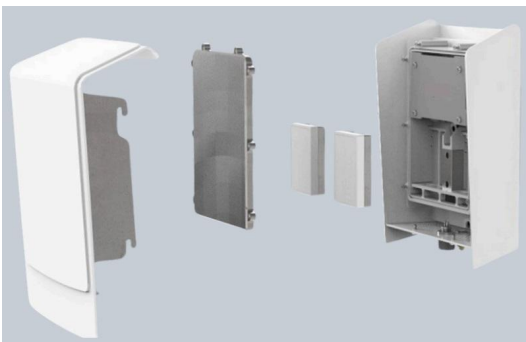
Air quality has become one of the primary challenges for Municipal Administrations and Sustainability Managers. The growing focus on environmental sustainability and the evolution of the European regulatory framework require measuring tools that are increasingly accurate, reliable, and easy to implement.

To meet these needs, **AirGuardian** was created: a compact sensor for urban environmental monitoring designed to support temporary measurement campaigns or permanent installations, with full cloud integration. Developed for outdoor applications and designed in line with the requirements introduced by EU regulation 2024/2881, **AirGuardian** allows for the collection of high-quality environmental data and transform it into operational information for more conscious territory management.

■ **A single platform to monitor what really matters.**

AirGuardian integrates latest-generation MEMS sensors to simultaneously acquire the main environmental quality indicators.

Monitorable parameters include pollutant gases, including carbon dioxide (CO₂), ambient temperature, atmospheric pressure, ambient noise, and atmospheric particulate PM 1.0 / PM 2.5 / PM 10. Its high sensitivity and continuous monitoring capability allow for the creation of historical series and comparative analyses useful for supporting environmental policies and infrastructural decisions.



■ **Simple installation, data available immediately**

The sensor has been designed to minimize implementation time and costs. Thanks to its compact size and dedicated mounting system, **AirGuardian** can be easily installed on existing public lighting poles in urban areas.

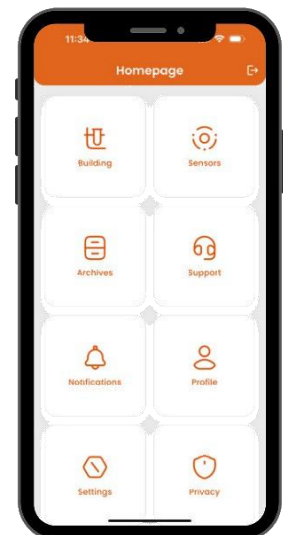
Integrated connectivity via M2M SIM enables automatic data transmission to the cloud platform without the need for dedicated local infrastructure.

The advantages:

- Non-invasive installation
- Rapid activation
- Remote monitoring
- Centralized data collection
- High system scalability

From measure to decision:

- Plan urban mobility interventions
- Verify the effects of environmental policies
- Monitor sensitive areas
- Assess infrastructural impacts
- Support sustainability programs



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I-40033 Casalecchio di Reno (BO)

PH: +39 051 6211553

Skype: [doingsecurity](https://www.skype.com/name/doingsecurity)

Email: info@doingsecurity.it

Web: www.doingsecurity.it