AirQino®

The next-generation environmental monitoring system
AirQino is a high precision environmental monitoring system, developed by the Italian National Research Council (CNR IBE) in collaboration with TEA Group for the production and Quanta Srl for distribution.

AirQino Outdoor allows to establish high-precision environmental monitoring networks, to target specific hotspots or cover extensive areas. The solution to detect the concentration of pollutants present in the atmosphere, analyze the factors that influence their dynamics and enforce smart corrective actions.

AirQino Indoor is a high-precision environmental monitoring system for indoor spaces. Our ecosystem offers several monitoring configurations designed to meet the specific needs of healthcare facilities, schools, museums, shopping centers and more.

Since 1985, TEA operates in the field of Electronic Technologies applied to the Military. Active in several R&D projects in collaboration with public research institutes, TEA offers specialized systems and services addressed to regional planning, meteorology and environmental monitoring.

Quanta is a specialized company in the design, development and production of integrated electronic devices. For over 30 years, Quanta has been operating in the fields of thermoregulation, industrial automation, alternative energy, acquisition of physical and environmental parameters, electro-medical.
AirQino System

Monitoring Stations

Fixed or mobile stations, indoor or outdoor, detect weather conditions and the concentration of pollutants.

Monitoring Network

The modular structure of AirQino allows to establish high-precision monitoring networks, connected in real time and accessible remotely.

InCloud Data

AirQino web platform collects data and provides reporting and analysis tools.

Installation and Maintenance

Our dedicated team provides support throughout all phases: Installation, ongoing operation, and maintenance.

Configuration and Calibration

Monitoring stations can be configured with a wide set of sensors, calibrated by CNR® using official A.R.P.A stations. (Regional Environmental Protection Agency)

Data Reporting and Analysis

AirQino Web platform provides in-depth data reporting and analysis tools. Custom reports are available upon request.
**AirQino Outdoor**

AirQino Outdoor is a high precision environmental monitoring system. A cost-effective solution designed to detect, store and analyze data about the most important air pollutants and chemical compounds present in the atmosphere. AirQino is a modular system and can be deployed to target specific hotspots, using a limited number of units, or cover extensive areas, establishing complex multi-node networks.

The system detects meteorological conditions, temperature, relative humidity and monitors the concentration of dangerous pollutants and chemical compounds such as NO2, CO, O3, Total V.O.C, PM2.5 and PM10 and more. Data are transmitted in real time to the cloud and can be analyzed via a dedicated web platform.

Monitoring stations are designed to operate under stressed weather conditions and can be configured with custom sets of sensors. Specific solutions are available for urban monitoring, vehicular traffic, industry, refineries, and many other applications.

To guarantee high performance standards, every AirQino monitoring station undergoes an extensive validation process, curated by the Italian National Research Council (CNR IBE, Firenze). Units are calibrated using official ARPA stations, which meet EU standards and are maintained by the Italian Regional Environmental Protection Agency.

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**Gases Sensors**

- NO2: Nitrogen Dioxide
- O3: Ozone
- CO: Carbon Monoxide
- Total VOC: Volatile Organic Compounds
- CO2: Carbon Dioxide
- SO2: Sulfur Dioxide
- H2S: Hydrogen Sulfide
- CL: Chlorine
- HCL: Hydrochloric Acid
- NH3: Ammonia

**Particles Sensors**

- PM 2.5: Particulate Matter 2.5 μg
- PM 10: Particulate Matter 10 μg

**Environment Sensors**

- Ur: Air Humidity
- C°: Air Temperature
- C°: Internal Temperature
- dB: Noise pollution

*If you are interested knowing all the features of the system and the available configurations of AirQino Outdoor version, request our technical data sheet or contact our offices.*
AirQino Indoor is a high precision monitoring system dedicated to the detection of pollutants and chemical compounds in closed spaces.

A cost-effective and high-quality solution dedicated to the environmental monitoring of schools, healthcare facilities, museums, shopping centers, laboratories, offices and more. AirQino units can be customized with a wide range of sensors (NO2, Formaldehyde, O3, Total V.O.C., CO, CO2 and more) and accessed remotely.

Data are transmitted in real time to the cloud and can be analyzed via a dedicated web platform or integrated into ad-hoc IoT systems.

To guarantee high performance standards, every AirQino monitoring station undergoes an extensive validation process, curated by the Italian National Research Council (CNR IBE, Firenze).

Units are calibrated using official ARPA stations, which meet EU standards and are maintained by the Italian Regional Environmental Protection Agency.

<table>
<thead>
<tr>
<th>Standard Sensors</th>
<th>Additional Sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gases Sensors</td>
<td></td>
</tr>
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</tr>
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