

Global Compact / Sensor-based Air Quality Monitoring Systems Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4C9B99317C9EN.html>

Date: May 2026

Pages: 155

Price: US\$ 4,480.00 (Single User License)

ID: G4C9B99317C9EN

Abstracts

The global Compact / Sensor-based Air Quality Monitoring Systems market size is expected to reach \$ 1177 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

Compact / sensor-based air quality monitoring systems are integrated, deployable monitoring devices that combine particulate-matter sensing, gas sensing, meteorological and environmental sensing, embedded data acquisition, wireless communication, power management and cloud-based data services. These systems typically use optical scattering or optical particle counting to measure PM1, PM2.5, PM10 and TSP, and use electrochemical, NDIR, MOX or PID technologies to measure pollutants such as NO_x, NO, O₃, SO_x, CO, CO₂, TVOC, H₂S and NH₃. They are designed to provide continuous or near-continuous measurements, remote data transmission, calibration, visualization and alerts across urban streets, industrial perimeters, roadsides, school campuses, communities, construction sites, commercial buildings and exposure-monitoring applications. This study focuses on networkable, scalable and system-level devices that support high-spatial-resolution air quality monitoring.

Based on our research, the core role of compact air quality monitoring systems is not to replace regulatory-grade reference stations, but to extend the spatial density, deployment flexibility and scenario coverage of existing monitoring networks. Reference-grade stations remain essential for compliance, long-term comparability and legally defensible data, while compact sensor-based systems are better suited for dense street-level monitoring, hotspot screening, early warning, community engagement and operational decision support. The most valuable products in this market are no longer

simple sensor boxes; they combine hardware nodes, calibration algorithms, communications, cloud data platforms and maintenance workflows.

From a demand perspective, future growth will be driven by urban micro-networks, roadside pollution monitoring, industrial fenceline monitoring, wildfire and community exposure monitoring, and professional indoor air quality monitoring in schools and commercial buildings. The market will gradually move from hardware-only procurement toward integrated offerings that include sensor nodes, cloud calibration, APIs, analytics dashboards, maintenance services and environmental decision support. The main competitive battleground will be data trustworthiness, calibration stability, total cost of ownership and the ability to convert dense sensor measurements into actionable environmental management.

This report studies the global Compact / Sensor-based Air Quality Monitoring Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Compact / Sensor-based Air Quality Monitoring Systems and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Compact / Sensor-based Air Quality Monitoring Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Compact / Sensor-based Air Quality Monitoring Systems total production and demand, 2021-2032, (Units)

Global Compact / Sensor-based Air Quality Monitoring Systems total production value, 2021-2032, (USD Million)

Global Compact / Sensor-based Air Quality Monitoring Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Compact / Sensor-based Air Quality Monitoring Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Compact / Sensor-based Air Quality Monitoring Systems domestic production, consumption, key domestic manufacturers and share

Global Compact / Sensor-based Air Quality Monitoring Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Compact / Sensor-based Air Quality Monitoring Systems production by Type,

production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Compact / Sensor-based Air Quality Monitoring Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Compact / Sensor-based Air Quality Monitoring Systems market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Google LLC, IQAir, Clarity Movement Co., Aclima, Inc., Airly sp. z o.o., Vaisala Oyj, ENVEA, EarthSense Systems Ltd., Kunak Technologies S.L., Oizom Instruments Pvt. Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Compact / Sensor-based Air Quality Monitoring Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Compact / Sensor-based Air Quality Monitoring Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Compact / Sensor-based Air Quality Monitoring Systems Market, Segmentation by Type:

Outdoor Micro Air Station

Indoor Air Quality Monitor

Other

Global Compact / Sensor-based Air Quality Monitoring Systems Market, Segmentation by Technology Route:

Optical Particle Sensing

Electrochemical Gas Sensing

Other

Global Compact / Sensor-based Air Quality Monitoring Systems Market, Segmentation by Pollutant Coverage:

Particulate Matter Monitoring

Gas Pollutant Monitoring

Other

Global Compact / Sensor-based Air Quality Monitoring Systems Market, Segmentation by Application:

Urban Grid Monitoring

Industrial Fenceline Monitoring

Other

Companies Profiled:

Google LLC

IQAir

Clarity Movement Co.

Aclima, Inc.

Airly sp. z o.o.

Vaisala Oyj

ENVEA

EarthSense Systems Ltd.

Kunak Technologies S.L.

Oizom Instruments Pvt. Ltd.

Kaiterra

Airthings ASA

Ecomesure

Environmental Instruments Ltd.

PurpleAir, Inc.

Breeze Technologies UG

Awair

uHoo

Key Questions Answered:

1. How big is the global Compact / Sensor-based Air Quality Monitoring Systems market?
2. What is the demand of the global Compact / Sensor-based Air Quality Monitoring Systems market?
3. What is the year over year growth of the global Compact / Sensor-based Air Quality Monitoring Systems market?
4. What is the production and production value of the global Compact / Sensor-based Air Quality Monitoring Systems market?
5. Who are the key producers in the global Compact / Sensor-based Air Quality Monitoring Systems market?
6. What are the growth factors driving the market demand?

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