

Air Quality Sensor Market By Type (Particle Sensor, Gas Sensor, Temperature Sensor), By Industry Vertical (Residential, Commercial, Government, Others), By Deployment (Indoor Air Quality, Outdoor Air Quality): Global Opportunity Analysis and Industry Forecast, 2025-2034

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Abstracts

The air quality sensor market was valued at \$5,705.4 million in 2024 and is estimated to reach \$12,444.8 million by 2034, exhibiting a CAGR of 8.3% from 2025 to 2034.

A device designed to detect and measure pollutants in the air is referred to air quality sensor. These help measure volatile organic compounds (VOCs), particulate matter (PM_{2.5}, PM₁₀), carbon dioxide (CO₂), and other harmful gases. An air quality sensor helps monitor indoor and outdoor air quality to ensure safe and healthy environment.

There is a rise in awareness about health impacts of air pollution, which fosters the requirement of air quality sensor in the market. Also, rapid urbanization and industrialization lead to increase in air pollution, which necessitates the usage of air quality sensor in the residential, commercial, industrial and automotive sectors.

However, high initial cost associated with installation of air quality monitoring systems limit the adoption of air quality sensors in the small and medium-sized enterprises. In addition, limitations associated with technology and fluctuations of environmental conditions are challenging for the market growth. Furthermore, environmental regulations across different regions impede uniform market growth. Thus, all these factors limit the growth of the air quality sensor market.

Nevertheless, advancements in technology and inclusion of IoT and AI in air quality sensor is projected to increase its adoption in different sectors, which fosters the growth of the air quality sensor market during the forecast period. Also, development of portable air quality sensors which are budget friendly is projected to boost the growth of the air quality sensor market in the upcoming years.

The global air quality sensors market is segmented into type, deployment, and industry vertical. By type, the air quality sensors market share is analyzed across particle sensor, gas sensor, and temperature sensor. By deployment, the air quality sensor market is segmented into indoor and outdoor. By industry vertical, the air quality sensors market is segmented into residential, commercial, government, and others. Region-wise, the air quality sensor market is segmented into North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, Italy, and Rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and Rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

By region, China, in the Asia-Pacific region, dominated the market in 2024, attributed to urbanization, rapid industrialization, and increase in government initiatives to control and monitor air pollution. Further, countries like India and Japan are also contributing significantly to the market growth in Asia-Pacific. India is witnessing surge in adoption of air quality sensors owing to rise in pollution levels in urban areas and government efforts to improve air quality monitoring infrastructure. Japan is also a key player in the regional market, owing to its advanced technological capabilities and stringent environmental policies. Thus, surge in awareness of air quality issues and the implementation of stringent environmental regulations propel the demand for air quality sensors in the Asia-Pacific region.

The report provides a competitive analysis and profiles of the leading players in the air quality sensor market. The key players profiled in the report include Honeywell Analytics, LLC, Siemens A.G., Figaro Engineering Inc, Airthings AS, Sensirion AG, eLichens, TSI Incorporated, Infineon Technologies AG, and Texas Instruments Incorporated.

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Supply Chain Analysis & Vendor Margins

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

SWOT Analysis

Key Market Segments

Air Quality Sensor Market By Type (Particle Sensor, Gas Sensor, Temperature Sensor), By Industry Vertical (Res...

By Type

Particle Sensor

Gas Sensor

Temperature Sensor

By Industry Vertical

Residential

Commercial

Government

Others

By Deployment

Indoor Air Quality

Outdoor Air Quality

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Siemens A.G.

Figaro Engineering Inc.

Airthings AS

eLichens

Sensirion AG

Infineon Technologies AG

Texas Instruments Incorporated

Honeywell Analytics, LLC

TSI Incorporated

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