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# Global MEMS Air Quality Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GF574DB02DCCEN.html
Date: September 2026
Pages: 112
Price: US$ 3,480.00 (Single User License)
ID: GF574DB02DCCEN

## Abstracts

According to our (Global Info Research) latest study, the global MEMS Air Quality Sensors market size was valued at US$ 451 million in 2025 and is forecast to a readjusted size of US$ 906 million by 2032 with a CAGR of 10.4% during review period.

MEMS Air Quality Sensors are miniaturized sensing devices and modules in which micro-electromechanical structures perform a direct sensing, thermal-excitation, or transduction function for measuring air-quality-related gases, particulate matter, or composite environmental indicators. The market primarily covers MEMS gas sensors based on metal-oxide semiconductor micro-hotplates, MEMS CO? sensors using photoacoustic or other MEMS-enabled transduction technologies, MEMS particulate matter sensors where the MEMS structure participates directly in particle sensing, and integrated multi-parameter air quality sensors. Typical products combine micromachined sensing elements with gas-sensitive materials, ASICs, calibration, temperature and humidity compensation, digital interfaces, and embedded algorithms to generate raw sensor signals, gas concentrations, VOC or NOx indices, estimated concentrations, or multi-parameter environmental outputs. Key technical attributes include low power consumption, compact dimensions, response speed, long-term stability, cross-sensitivity control, environmental compensation, and manufacturability at semiconductor-scale volumes. MEMS Air Quality Sensors are principally deployed in indoor air quality monitoring, air purification, ventilation and HVAC control, automotive cabin air quality management, portable environmental monitoring, and emerging odor or gas-pattern recognition systems.

## Key Findings

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The Core Formal List contains 14 confirmed manufacturers, including six headquartered in China and four headquartered in Europe

MEMS metal oxide micro-hotplate products remain the dominant commercial technology route for VOC, NOx and general indoor air quality sensing

Indoor air quality monitoring, air purification and HVAC control form the largest established application base, with automotive cabin sensing gaining importance

Product value is shifting toward multi-parameter digital sensors, direct MEMS CO? measurement and sensor-array architectures with embedded algorithms

## Market Trends

The technology direction of MEMS Air Quality Sensors is moving from single-parameter gas detection toward lower-power, more robust and more intelligent environmental sensing platforms. MEMS metal-oxide micro-hotplates remain the volume foundation because they combine small size, semiconductor-compatible manufacturing and programmable thermal operation, but product development is increasingly focused on multi-pixel sensing, contamination resistance, condensation tolerance and integrated algorithms. Bosch's latest BME690 combines gas, humidity, temperature and pressure sensing and delivers up to 50% lower power consumption than its predecessor, illustrating the industry's emphasis on battery-operated and always-on applications. Sensirion's SGP41 integrates VOC and NOx sensing on a compact multi-pixel platform, while MEMS-enabled photoacoustic CO? technology provides direct concentration measurement in substantially smaller form factors than conventional NDIR architectures. These developments indicate that future differentiation will depend less on the availability of a basic MEMS microheater and more on sensing-material design, calibration, environmental compensation, digital processing and application-specific algorithms.

## Market Dynamics

### Drivers

Demand is being supported by the transition from passive air-quality indication to closed-loop environmental control. Ventilation systems, air-treatment equipment and building

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automation increasingly require sensors that can continuously provide actionable VOC, NOx, CO? or composite air-quality information. ANSI/ASHRAE Standard 62.1-2025 continues to strengthen the framework for acceptable indoor air quality, including requirements related to ventilation, filtration, controls and demand-control ventilation. Automotive adoption is also gaining institutional support: China's GB/T 47753-2026 establishes a national technical specification for automotive-grade MEMS semiconductor gas sensors, providing a clearer technical framework for future vehicle qualification and deployment.

## Restraints

The principal restraints are technical rather than demand-related. MEMS metal-oxide sensing can be affected by cross-sensitivity, humidity, temperature variation, contamination, sensor poisoning and long-term drift, which increases the importance of calibration and compensation. Applications requiring highly selective direct measurement may also use alternative technologies such as conventional NDIR CO?, laser-scattering particulate sensors or electrochemical sensing. As MEMS gas sensors become more widely available, component-level price pressure can reduce value capture for suppliers that compete primarily on the sensing element without differentiated materials, algorithms, qualification capability or application integration.

## Opportunities

The strongest opportunities are emerging where miniaturization, low power and digital integration create functions that conventional discrete sensing architectures cannot provide economically. These include automotive cabin air-quality control, compact demand-controlled ventilation, multi-parameter smart-home sensing, portable environmental monitoring and electronic-nose applications. Direct MEMS CO? measurement and integrated VOC/NOx sensing can raise functional value per sensor node, while vertically integrated manufacturers can capture additional value through sensing materials, MEMS fabrication, packaging, calibration and embedded algorithms. China's expanding MEMS gas-sensor manufacturing base also creates opportunities for localized supply, cost reduction and automotive qualification.

## Challenges

Commercial success requires consistent performance across millions of devices rather

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than laboratory sensitivity alone. Manufacturers must control wafer-level process variation, sensing-material reproducibility, packaging contamination, environmental drift and long-term calibration while maintaining competitive power consumption and cost. Sensor-array and electronic-nose products introduce an additional challenge because classification accuracy depends on training data, environmental compensation and algorithm robustness across different users, geographies and operating conditions. Automotive and building-control applications further extend qualification cycles and require stable performance over long service lives, making reliability engineering and field-data accumulation important barriers to entry.

## Industry Chain Analysis

The MEMS Air Quality Sensors industry chain begins with semiconductor substrates, MEMS wafers, microheater and micro-hotplate structures, gas-sensitive metal-oxide and functional materials, ASICs and microcontrollers, acoustic or optical components for MEMS CO? sensing, packaging materials, calibration gases and specialized semiconductor manufacturing equipment. The midstream stage integrates MEMS design and fabrication, sensing-material deposition, wafer testing, packaging, ASIC integration, calibration, compensation algorithms and module assembly. The downstream value chain converts the resulting sensing signal into actionable environmental information for indoor air quality monitoring, air purification, HVAC control, automotive cabin management, portable monitoring and intelligent gas or odor recognition.

Value creation is therefore distributed unevenly across the chain. Semiconductor-scale MEMS manufacturing provides cost and volume advantages, but sustainable margins increasingly depend on material formulation, process yield, calibration infrastructure, packaging reliability and proprietary algorithms. Suppliers that control both the MEMS sensing element and subsequent signal-processing and calibration steps generally have greater ability to deliver digital, application-ready sensors rather than commodity sensing elements. Automotive qualification, long-term field data and application-specific software further increase switching costs, while companies focused only on upstream micro-hotplates or basic sensing dies typically capture a smaller share of the final sensor-system value.

### Segment Insights

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By Product Type, MEMS Gas Sensors remain the largest and most mature commercial category, supported primarily by VOC, TVOC, NOx and general IAQ monitoring. MEMS CO? Sensors represent a differentiated higher-value category where photoacoustic and other MEMS-enabled approaches reduce form factor while providing direct concentration measurement. MEMS Multi-parameter Air Quality Sensors are becoming strategically more important as manufacturers combine gas sensing with additional environmental parameters and digital algorithms. By Sensing Technology, MEMS Metal Oxide Semiconductor remains the dominant platform, while MEMS Photoacoustic and MEMS Sensor Array architectures address applications requiring direct measurement or richer pattern recognition.

By Target Parameter, VOC/TVOC is the most established sensing target, while NOx, CO? and multi-parameter detection broaden the addressable functionality of individual devices. By Integration Level, the product mix is shifting from MEMS Sensing Elements and Packaged MEMS Sensors toward Digital MEMS Sensors and Integrated Air Quality Modules with embedded calibration and processing. By Output Type, raw resistance or conductance signals increasingly coexist with Gas Concentration, Air Quality Index, Estimated Concentration and Multi-parameter Output formats, reflecting a broader industry shift from sensing components toward application-ready environmental information.

### Downstream Market Opportunities

The most established opportunities for MEMS Air Quality Sensors remain indoor air quality monitoring, air purification and ventilation or HVAC control, where sensor data can directly activate filtration, fresh-air exchange or operating-mode adjustments. Automotive Cabin Air Quality is becoming increasingly attractive because the sensor can be integrated with vehicle HVAC and air-inlet control systems; Cubic's automotive MEMS MOX platform, for example, directly links air-quality classification to ECU-controlled air management. Portable and personal monitoring require smaller and lower-power devices, while Odor and Gas Pattern Recognition creates a longer-term opportunity for multi-element MEMS arrays and electronic-nose systems. The commercial opportunity is strongest where sensing data are integrated into an automatic control loop rather than used solely for display.

## Regional Insights

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The supply structure of MEMS Air Quality Sensors is concentrated in a limited number of technology clusters. Within the confirmed 14-company Core Formal List, six manufacturers are headquartered in China, four in Europe, two in Japan and two in the United States. China has developed the broadest supplier base by company count, spanning established gas-sensor groups, automotive air-quality suppliers and specialized MEMS gas-sensor manufacturers. Domestic suppliers are also extending vertically into micro-hotplates, sensing materials, chip packaging and high-volume MEMS production. Huiwen, for example, has disclosed a large-scale MEMS gas-sensor production line, while Cubic identifies internally controlled micro-hotplate, chip packaging and sensor-assembly capabilities for its automotive air-quality products.

Europe remains the most concentrated region for high-value platform capabilities, with leading suppliers active in multi-parameter MEMS environmental sensing, digital VOC/NOx sensing and MEMS-enabled direct CO? measurement. Japan retains strong expertise in semiconductor gas-sensing materials and long-life sensing products, while the United States combines large diversified sensor groups with emerging sensor-array and intelligent-olfaction platforms. Regional differentiation is therefore increasingly based not only on production cost, but also on MEMS process control, materials expertise, algorithms, qualification experience and access to automotive, HVAC and smart-device design cycles.

## Competitive Landscape Analysis

The competitive landscape of MEMS Air Quality Sensors is moderately concentrated at the technology-platform level but broader at the specialist-manufacturer level. The confirmed Core Formal List currently contains 14 manufacturers. Bosch and Sensirion compete through highly integrated environmental-sensing platforms and strong digital processing capabilities; Infineon and TDK extend competition into MEMS-enabled direct CO? sensing; Amphenol's SGX Sensortech business and Figaro retain specialist gas-sensing positions; and ScioSense focuses on compact multi-gas IAQ devices using multiple MEMS micro-hotplates. Chinese manufacturers including Hanwei Electronics Group, Cubic Sensor and Instrument, Guangzhou Aosong Electronic, SuZhou Huiwen Nano S&T, Henan Fosen Electronics Technology and Jinan Rainbow Technology broaden the market through domestic MEMS manufacturing, materials, packaging and application-specific products. Competition is therefore increasingly defined by vertical integration, long-term stability, calibration infrastructure, algorithms and application qualification rather than sensing sensitivity alone. Broader sensor-industry consolidation also supports the move toward larger system-level portfolios: Infineon completed the

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acquisition of ams OSRAM's non-optical analog and mixed-signal sensor portfolio in July 2026, strengthening its wider sensor platform and mixed-signal capabilities.

## Report Scope

This report is a detailed and comprehensive analysis for global MEMS Air Quality Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global MEMS Air Quality Sensors market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global MEMS Air Quality Sensors market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global MEMS Air Quality Sensors market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global MEMS Air Quality Sensors market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for MEMS Air Quality Sensors

To forecast future growth in each product and end-use market

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To assess competitive factors affecting the marketplace

This report profiles key players in the global MEMS Air Quality Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Robert Bosch GmbH, Amphenol Corporation, Infineon Technologies AG, TDK Corporation, Sensirion Holding AG, Hanwei Electronics Group Corporation, Figaro Engineering Inc., Cubic Sensor and Instrument Co., Ltd., ScioSense B.V., Guangzhou Aosong Electronic Co., Ltd., etc.

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

MEMS Air Quality Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

# Market Segmentation

## Market segment by Type

MEMS Gas Sensors

Other

## Market segment by Sensing Technology

MEMS Metal Oxide Semiconductor

MEMS Photoacoustic

Other MEMS Technologies

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## Market segment by Target Parameter

VOC / TVOC

NOx

CO?

Other

## Market segment by Typical Power Consumption

?5 mW

>5–20 mW

>20–50 mW

>50 mW

## Market segment by Application

Smart Home & Residential Air Management

Automotive Cabin Air Quality

Industrial Air & Gas Monitoring

Healthcare & Medical Environment Monitoring

Other

## Major players covered

Robert Bosch GmbH

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Amphenol Corporation

Infineon Technologies AG

TDK Corporation

Sensirion Holding AG

Hanwei Electronics Group Corporation

Figaro Engineering Inc.

Cubic Sensor and Instrument Co., Ltd.

ScioSense B.V.

Guangzhou Aosong Electronic Co., Ltd.

SuZhou Huiwen Nano S&T Co.,Ltd.

Henan Fosen Electronics Technology Co., Ltd.

Jinan Rainbow Technology Co., Ltd.

Ainos, Inc.

## Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of

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Middle East & Africa)

## Chapter Outline

Chapter 1, to describe MEMS Air Quality Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MEMS Air Quality Sensors, with price, sales quantity, revenue, and global market share of MEMS Air Quality Sensors from 2021 to 2026.

Chapter 3, the MEMS Air Quality Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MEMS Air Quality Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and MEMS Air Quality Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of MEMS Air Quality Sensors.

Chapter 14 and 15, to describe MEMS Air Quality Sensors sales channel, distributors, customers, research findings and conclusion.

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