

Electronic Nose Market Set To Reach \$52.32 Billion By 2029, At A CAGR Of 14.1%

*The Business Research Company's
Electronic Nose Global Market Report
2025 - Market Size, Trends, And Global
Forecast 2025-2034*

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Electronic Nose Market Report 2025 - Market Size,
Trends, And Global Forecast 2025-2034

How Big Is the [Electronic Nose Market](#) and How Fast Is It Growing?

The electronic nose market is currently valued at \$26.98 billion in 2024 and is expected to experience robust growth. The market size is projected to reach \$30.86 billion in 2025, driven by a compound annual growth rate (CAGR) of 14.4%. The market is anticipated to continue its upward trajectory, with forecasts estimating a rise to \$52.32 billion by 2029, at a CAGR of 14.1%.

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This growth is primarily attributed to heightened awareness of environmental monitoring and pollution control, alongside increasing demand for e-nose technology in food safety, quality control, and air quality monitoring. As industries continue to explore the potential applications of electronic noses, the market's scope and

potential expand significantly.

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What Are the [Key Trends Shaping the Electronic Nose Market](#)?

Several emerging trends are shaping the electronic nose market, including:

- Technological Advancements: The integration of AI with e-nose technology, improving

detection accuracy and expanding use cases.

- Increased Adoption Across Industries: The expanding applications of electronic noses across food and beverage safety, healthcare, environmental monitoring, and the automotive industry.
- Focus on Environmental Protection: Growing concerns over environmental pollution are fueling demand for e-noses to monitor air quality and control pollutants.
- Advancements in Sensor Technology: Companies are enhancing their offerings by improving sensor sensitivity and detection capabilities, especially in food authentication and contamination detection.

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What Is Driving the Electronic Nose Market's Growth?

Key drivers contributing to the electronic nose market's growth include:

- Environmental Concerns: The increasing need for effective air quality monitoring and pollution control.
- Advancements in the Automotive Industry: Rising demand for electric and autonomous vehicles, in which e-noses help enhance cabin air quality and detect off-gassing.
- Technological Innovation: The development of more accurate, cost-effective, and portable e-nose devices, particularly in healthcare and food safety applications.
- Market Expansion in Developing Regions: Rising awareness and demand for environmental monitoring in emerging markets further fuel the growth of e-nose technology.

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Who Are the Leading Players in the Electronic Nose Market?

The market features several key players making significant advancements in sensor technology and electronic nose applications. Notable companies include:

- Syrma SGS Technology Ltd.
- Envirosuite Limited
- Owlstone Medical Ltd.
- AromaScan Ltd.
- Airsense Analytics GmbH
- Odotech Inc.
- InfraTec GmbH
- FlavorActiV
- Plasmion GmbH
- MYDX Inc.
- Stratuscent Inc.

These companies continue to innovate, driving the adoption of e-nose technology across a variety of sectors.

What Are the Segments in the Electronic Nose Market?

The electronic nose market is segmented based on:

- Type: Embedded Sensors, Portable Devices
- Technology: Metal Oxide Semi-Conductor Sensors (MOS), Quartz Crystal Microbalance (QCM), Conducting Polymers (CP), Surface Acoustic Wave (SAW), Other Technologies
- Application: Food and Beverage, Healthcare, Environmental Monitoring, Security and Defense, Other Applications
- End User: Industrial, Commercial, Residential

Subsegments include:

- Embedded Sensors: Metal Oxide Sensors, Conducting Polymer Sensors, Quartz Crystal Microbalance (QCM) Sensors, Optical Sensors, Surface Acoustic Wave (SAW) Sensors, Electrochemical Sensors
- Portable Devices: Handheld Devices, Wearable Devices, Smartphone-integrated Devices, Battery-operated Portable Sensors

Which Regions Are Leading the Electronic Nose Market Expansion?

The market is seeing significant growth across various regions:

- North America: Dominates the market, being the largest region in 2024.
- Asia-Pacific: Expected to be the fastest-growing region in the coming years, with rising demand in countries like China and India.
- Other Key Regions: Western Europe, Eastern Europe, South America, and the Middle East are also experiencing rapid expansion.

Countries such as the USA, China, Germany, and Japan are central to the global market growth, leading innovation and technological advancements.

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