

Electronic Nose Market Report by Type (Embedded Sensors, Portable Devices), Technology Type (Metal Oxide Semi-Conductor Sensors (MOS), Quartz Crystal Microbalance (QCM), Conducting Polymers (CP), and Others), End Use Industry (Military and Defense, Healthcare, Food and Beverage, Waste Management (Environmental Monitoring), and Others), and Region 2024-2032

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Abstracts

The global electronic nose market size reached US\$ 23.5 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 54.7 Million by 2032, exhibiting a growth rate (CAGR) of 9.6% during 2024-2032.

Electronic noses, also known as e-noses, refer to electronic sensing systems designed to detect odors and flavors. They comprise a sampling system, a pattern classification system, and an array of chemical gas sensors that generate numerous signals when confronted with a gas, odor, or vapor. They are primarily used for quality evaluation, maturity detection, and species identification in fruits and vegetable testing. They are also utilized in odor detection, raw material inspection, quality signing, and sprinkling process management. In recent years, electronic noses have gained immense popularity across various industries, including food and beverage (F&B), healthcare, waste management, military and defense, automotive, cosmetics and personal care, packaging, and consumer electronics.

Electronic Nose Market Trends:

Electronic noses are extensively used in quality assurance and quality control. As a

result, the escalating consumer demand for high-quality products represents the primary factor driving the market growth. Besides this, the widespread adoption of electronic noses in the food industry for quality control, process monitoring, shelf-life investigation, freshness evaluation, and authenticity assessment is augmenting the product demand. Additionally, governments of various countries are introducing stringent regulations to encourage the implementation of precautionary measures to ensure a safe working environment in an industrial setup. Along with this, the growing safety concerns among the workers are accelerating the adoption of innovative technologies, such as electronic noses, that mimic the human senses. Furthermore, the leading manufacturers are engaging in research and development (R&D) activities to launch miniaturized versions of electronic noses to expand their consumer base and gain a competitive edge. They are developing compact, portable, and cost-efficient electronic noses to offer accurate results in an open-air environment, thereby propelling the market growth. Other factors, including the rising product usage to detect leakage of hazardous gases, increasing biomedical applications, and improvements in the supportive technological infrastructure, are also providing a positive thrust to the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global electronic nose market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, technology type and end use industry.

Breakup by Type:

- Embedded Sensors
- Portable Devices

Breakup by Technology Type:

- Metal Oxide Semi-Conductor Sensors (MOS)
- Quartz Crystal Microbalance (QCM)
- Conducting Polymers (CP)
- Others

Breakup by End Use Industry:

- Military and Defense

Healthcare
Food and Beverage
Waste Management (Environmental Monitoring)
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Aernos Inc., AIRSENSE Analytics GmbH, Alpha Mos, Chromatotec Inc., Comon Invent B.V., Electronic Sensor Technology Inc., Envirosuite Limited, Odotech Inc., Plasmion GmbH, Sensigent, Stratuscent Inc. and The eNose Company.

Key Questions Answered in This Report

1. How big is the global electronic nose market?
2. What is the expected growth rate of the global electronic nose market during 2024-2032?
3. What are the key factors driving the global electronic nose market?
4. What has been the impact of COVID-19 on the global electronic nose market?
5. What is the breakup of the global electronic nose market based on the end use industry?
6. What are the key regions in the global electronic nose market?
7. Who are the key players/companies in the global electronic nose market?

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