

Electronic Nose Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-05-29 | 143 pages | IMARC Group

AVAILABLE LICENSES:

- Electronic (PDF) Single User \$3999.00
- Five User Licence \$4999.00
- Enterprisewide License \$5999.00

Report description:

The global electronic nose market size reached US\$ 21.2 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 40.2 Million by 2028, exhibiting a growth rate (CAGR) of 10.94% during 2023-2028.

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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott-international.com

www.scott-international.com

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 2023-2028. 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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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:

How has the global electronic nose market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global electronic nose market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the technology type?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global electronic nose market and who are the key players?

What is the degree of competition in the industry?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Electronic Nose Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Forecast
- 6 Market Breakup by Type
 - 6.1 Embedded Sensors

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.1.1 Market Trends
- 6.1.2 Market Forecast
- 6.2 Portable Devices
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 7 Market Breakup by Technology Type
 - 7.1 Metal Oxide Semi-Conductor Sensors (MOS)
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Quartz Crystal Microbalance (QCM)
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Conducting Polymers (CP)
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 8 Market Breakup by End Use Industry
 - 8.1 Military and Defense
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2 Healthcare
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
 - 8.3 Food and Beverage
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
 - 8.4 Waste Management (Environmental Monitoring)
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
 - 8.5 Others
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast
- 9 Market Breakup by Region
 - 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
 - 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.2.2.1 Market Trends
- 9.2.2.2 Market Forecast
- 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
- 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
- 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
- 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.4.3.1 Market Trends
- 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast
- 10 SWOT Analysis
 - 10.1 Overview
 - 10.2 Strengths
 - 10.3 Weaknesses
 - 10.4 Opportunities
 - 10.5 Threats
- 11 Value Chain Analysis
- 12 Porters Five Forces Analysis
 - 12.1 Overview
 - 12.2 Bargaining Power of Buyers
 - 12.3 Bargaining Power of Suppliers
 - 12.4 Degree of Competition
 - 12.5 Threat of New Entrants
 - 12.6 Threat of Substitutes
- 13 Price Analysis
- 14 Competitive Landscape
 - 14.1 Market Structure
 - 14.2 Key Players
 - 14.3 Profiles of Key Players
 - 14.3.1 Aernos Inc.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.2 AIRSENSE Analytics GmbH
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 Alpha Mos
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.4 Chromatotec Inc.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.5 Comon Invent B.V.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.6 Electronic Sensor Technology Inc.
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.7 Envirosuite Limited
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.8 Odotech Inc.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 14.3.8.1 Company Overview
- 14.3.8.2 Product Portfolio
- 14.3.9 Plasmion GmbH
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Sensigent
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
- 14.3.11 Stratuscent Inc.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
- 14.3.12 The eNose Company
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Electronic Nose Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-05-29 | 143 pages | IMARC Group

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Electronic (PDF) Single User	\$3999.00
	Five User Licence	\$4999.00
	Enterprisewide License	\$5999.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-10"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com