

Electronic Nose (E-Nose) Market Forecasts to 2028 – Global Analysis By Technology Type (Quartz Crystal Microbalance (QCM), Metal Oxide Semi-Conductor Sensors (MOS), Conducting Polymers (CP), Surface Acoustic Wave (SAW)) and By Geography

https://marketpublishers.com/r/E31A2BCB3289EN.html

Date: August 2021

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: E31A2BCB3289EN

Abstracts

According to Stratistics MRC, the Global Electronic Nose (E-Nose) Market is accounted for \$17.80 million in 2020 and is expected to reach \$52.59 million by 2028 growing at a CAGR of 14.5% during the forecast period. Introduction of AI and neuromorphic computing in e-nose technology, rise in technology advancements, rising importance of biomedical requirements, and innovation of digital smell on smart phones are driving the market growth. However, high initial cost of E-noses may hamper the market growth.

An electronic nose (e-nose) is a technological replacement for the human sense of smells which detects scent and flavor. The device has allowed one to measure and classify the mixture of aromas without causing operator exhaustion. Smell or aromas are composed of volatile molecules that are recognized by the receptors in a human nose. The receptor further transmits the signal to the brain and eventually, the brain identifies the smell associated with the particular molecule. Electric noses are being designed and developed by using the same principle.

Based on the end user, the waste management (environmental monitoring) segment is going to have lucrative growth during the forecast period, due to favourable regulatory scenario, growing pollution levels, rising consciousness on pollution monitoring, development of smog monitoring infrastructure across emerging markets, and ongoing installation of ecological monitoring stations.

By geography, North America is going to have lucrative growth during the forecast



period, owing to growing espousal of technologically advanced sensing products, high adoption of e-noses in airports to detect drugs from the suspects, and ongoing governmental regulations of the US government on healthcare and special initiatives.

Some of the key players in Electronic Nose (E-Nose) Market include Aryballe Technologies SA, Alpha MOS SA, Voler Systems, Stratuscent Inc., MyDx Inc, Airsense Analytics GmbH, Comon Invent BV, Odotech Inc., Shenzhen Beautymate Technology Co., Ltd., RoboScientific Limited, The eNose Company, Vaporsens Inc, Electronic Sensor Technology Inc., Plasmion GmbH, Tellspec Inc, and Sensigent LLC.

Sensor Technology Inc., Plasmion GmbH, Tellspec Inc, and Sensig Technology Types Covered: Quartz Crystal Microbalance (QCM) Metal Oxide Semi-Conductor Sensors (MOS) Conducting Polymers (CP) Surface Acoustic Wave (SAW) Hardware Devices Covered: Scent Synthesizer Scentograph

Product Types Covered:

Cartridge

Portable Devices

Embedded Sensors

Electronic Sensor Types Covered:



	Membrane-Oxide Semiconductor Field-Effect Transistor (MOSFET) Sensor
	Polymer Sensor
	Optical Fiber Sensor
	Piezoelectric Sensor
	Quartz Sensor
Sales Channels Covered:	
	Distributor
	Direct Sales
End Users Covered:	
	Healthcare
	Waste Management (Environmental Monitoring)
	Military and Defense
	Food and Beverage
	Laboratories
	Education
	Advertising
	Process and Production Departments
	Crime Prevention & Security



Regions Covered: North America US Canada Mexico Europe Germany UK Italy France Spain Rest of Europe Asia Pacific Japan China India Australia New Zealand South Korea Rest of Asia Pacific







estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances



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