

Global Semiconductor Gas Sensors Market – Sensing Materials and Applications

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Abstracts

REPORT SYNOPSIS

The use of Semiconductor Gas Sensors has gained popularity for detecting flammable, toxic or explosive gases at low concentrations in a range of industrial and other settings, as well as for monitoring environmental pollution. While the properties of any sensing material, such as high sensitivity, rapid response/recovery and good selectivity, play a crucial role in determining their scope of operation, it is a challenging prospect to develop cost-effective and reliable sensing devices that can detect gases, particularly at room temperature.

Safety & Security applications account for the largest share of the global demand for Semiconductor Gas Sensors, which is estimated to account for 23.4% share in 2022. Overall global market for Semiconductor Gas Sensors is estimated to reach US\$1.1 billion in 2022.

Research Findings & Coverage

This global market research report on Semiconductor Gas Sensors analyzes the market with respect to sensing material types/sub-types and applications

Semiconductor Gas Sensors market size is estimated/projected in this report by sensing material type/sub-type and by application across all major countries

Future of Chemoresistive-Based Heterostructure Gas Sensors Bright

Series of Studies on Tin Oxide Result in Enhancing Gas Sensing Performance



Copper Oxide Nanomaterial-Based Gas Sensors Gaining Wider Adoption

SnO2-Based Sensor Technology Advanced for Detecting VOCs

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled - 37

The industry guide includes the contact details for 55 companies

PRODUCT OUTLINE

The market for Semiconductor Gas Sensors market studied in this report by sensing material types/sub-types used comprise:

N2D Materials

Carbon Nanotubes

Conducting Polymers

Metal Oxide (MOx) Semiconductors

The report analyzes the market for the following applications Semiconductor Gas Sensors:

Air Quality & Environmental Monitoring

Automotive

Electronic Nose

Industrial

Medical & Healthcare



Safety & Security

Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global Semiconductor Gas Sensors market for the period 2018-2027 in terms of value in US\$; and the compound annual growth rates (CAGRs) projected from 2022 through 2027.

Geographic Coverage

North America (The United States and Mexico)

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

Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)

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

Middle East & Africa



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Teledyne API (United States)

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Sensidyne LP (United States)

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Cambridge Sensortech Limited (United Kingdom)

Carel Indstries SpA (Italy)

E+E Elektronik Ges.M.B.H (Austria)

Edinburgh Sensors Ltd (United Kingdom)

Gas Sensing Solutions Ltd (United Kingdom)

Invest Electronics Ltd (Bulgaria)

Ion Science Ltd (United Kingdom)

Micro-Hybrid Electronic Gmbh (Germany)

Nanoz (France)

Seitron S.p.A. (Italy)

Sensirion AG (Switzerland)

SGX Sensortech (Switzerland)

Siemens AG (Germany)

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Figaro Engineering, Inc. (Japan)

Foshan Chuandong Magnetoelectric Co Ltd (China)

Hubei Cubic-Ruiyi Instrument Co Ltd (China)

Macro Technology Instruments Co Ltd (Taiwan)

Nissha FIS, Inc. (Japan)

OGAM Technology Co Ltd (South Korea)

Riken Keiki Co Ltd (Japan)

Shanghai Boqu Instrument Co Ltd (China)

Shenzhen Daweilai Sensing Technology Development Co Ltd (China)

Zhengzhou Winsen Electronics Technology Co Ltd (China)

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Sensors Market Share (%) by Application – Air Quality & Environmental Monitoring, Automotive, Electronic Nose, Industrial, Medical & Healthcare and Safety & Security REST OF WORLD

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Chart 206: Rest of World Semiconductor Gas Sensors Market Analysis (2018-2027) by Application – Air Quality & Environmental Monitoring, Automotive, Electronic Nose, Industrial, Medical & Healthcare and Safety & Security in USD Million

Chart 207: Glance at 2019, 2022 and 2027 Rest of World Semiconductor Gas Sensors Market Share (%) by Application – Air Quality & Environmental Monitoring, Automotive, Electronic Nose, Industrial, Medical & Healthcare and Safety & Security



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