

Global Semiconductor Gas Sensors Market - Sensing Materials and Applications

Market Report | 2022-11-01 | 302 pages | Industry Experts

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Report description:

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:

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- 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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- Aeroqual (New Zealand)
- Alphasense Sensors (United Kingdom)
- Angst + Pfister AG (Switzerland)
- Carel Industries SpA (Italy)
- Cubic Sensor and Instrument Co Ltd (China)
- Dracal Technologies, Inc. (Canada)
- E+E Elektronik Ges.M.B.H (Austria)
- Edinburgh Sensors Ltd (United Kingdom)
- Figaro Engineering, Inc. (Japan)
- Gas Sensing Solutions Ltd (United Kingdom)
- Honeywell Analytics, Inc. (Industrial Division) (United States)
- Invest Electronics Ltd (Bulgaria)
- Ion Science Ltd (United Kingdom)
- Micro-Hybrid Electronic GmbH (Germany)
- MSA Safety, Inc, (United States)
- Nissha FIS, Inc. (Japan)
- OGAM Technology Co Ltd (South Korea)
- Riken Keiki Co Ltd (Japan)
- Seitron S.p.A. (Italy)
- Sensidyne LP (United States)

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Sensirion AG (Switzerland)
SGX Sensortech (Switzerland)
Shenzhen Daweilai Sensing Technology Development Co Ltd (China)
Siemens AG (Germany)
smartGAS Mikrosensorik GmbH (Germany)
Teledyne API (United States)

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Dracal Technologies, Inc. (Canada)

ESP Safety, Inc (United States)

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Honeywell Analytics, Inc. (Industrial Division) (United States)
MSA Safety, Inc, (United States)
Sensidyne LP (United States)
Teledyne API (United States)

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Alphasense Sensors (United Kingdom)

Angst + Pfister AG (Switzerland)

Cambridge Sensortech Limited (United Kingdom)

Carel Industries 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)

smartGAS Mikrosensorik GmbH (Germany)

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Hubei Cubic-Ruiyi Instrument Co Ltd (China)

Figaro Engineering, Inc. (Japan)

Foshan Chuandong Magnetolectric 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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