

Gas Detection Market by installation (fixed, portable), device (single gas, multi-gas), technology (electrochemical, catalytic, MOS, Infrared, Photoionization), gas type (Oxygen, carbon monoxide, carbon dioxide, ammonia, VOCs) - Global Forecast to 2030

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Abstracts

The gas detection market is projected to be valued at USD 3.84 billion in 2025 and USD 5.18 billion by 2030, registering a CAGR of 6.1% from 2025 to 2030. The gas detection market is propelled by a tightening global safety and regulatory environment, where compliance with OSHA, ATEX, IECEx, and country-specific norms has become non-negotiable for industrial operators. Rising incidents of gas leaks, explosions, and toxic exposures are pushing CXOs to prioritize advanced detection infrastructure to safeguard workforce, assets, and brand reputation. Rapid industrial expansion across oil & gas, chemicals, pharmaceuticals, industrial and manufacturing, power generation, and mining is further amplifying demand for scalable, multi-gas monitoring systems. Parallely, Asia Pacific's strong industrialization and infrastructure growth continue to elevate adoption rates. Technological advancements, including infrared sensing, IoT-enabled devices, cloud-based analytics, and wireless connected safety platforms, are transforming detection from a reactive compliance tool into a predictive operational asset. Additionally, emerging hydrogen, biogas, and clean energy ecosystems require specialized, high-performance sensors, creating new revenue streams. Collectively, these forces are reinforcing gas detection as a critical pillar of operational resilience and risk management.

“Fixed segment is likely to contribute largest market share of the gas detection market from 2025 to 2030.”

The fixed installation type segment is expected to account for a largest share of the gas detection market from 2025 to 2030, driven by its critical role in continuous, high-accuracy monitoring across hazardous industrial environments. Industries such as oil & gas, chemicals, power generation, and large-scale manufacturing prioritize fixed detectors because they provide round-the-clock coverage in high-risk zones, including processing units, compressor stations, storage terminals, and confined spaces, where even minor leaks can lead to major operational or safety incidents. These installations integrate directly with plant control systems, SCADA networks, and emergency shutdown mechanisms, strengthening compliance with stringent IECEx, ATEX, and OSHA standards. As facilities scale and adopt more automation, fixed systems offer superior reliability, faster response times, and longer lifecycle performance compared to portable devices. Furthermore, the shift toward connected plants leveraging IoT, diagnostics, and predictive maintenance favors fixed sensors that can deliver continuous data streams. Collectively, these factors anchor fixed installations as the backbone of industrial gas safety infrastructure.

“Electrochemical technology segment is expected to record a significant share from 2025 to 2030.”

Electrochemical technology is expected to maintain the largest share of the gas detection market because it remains the most reliable, cost-effective, and widely adopted solution for detecting a broad spectrum of toxic gases, including oxygen, carbon monoxide, hydrogen sulfide, chlorine, and ammonia, across industrial environments. For managing safety-critical operations, electrochemical sensors deliver high sensitivity, fast response times, and strong selectivity while keeping device costs and maintenance cycles manageable. Their compatibility with both portable and fixed gas detection systems further expands market penetration, particularly in oil & gas, chemicals, wastewater, and manufacturing facilities. As regulatory agencies tighten exposure limits and enforce continuous toxic gas monitoring, demand for proven electrochemical detectors strengthens. Additionally, advancements in sensor miniaturization, longer calibration intervals, and extended operational life are improving total cost of ownership. Combined with their versatility and broad application footprint, electrochemical technologies will continue to anchor the market as the default choice for toxic gas detection.

“Asia Pacific accounted for the largest share of the gas detection market in 2024.”

The Asia-Pacific region is expected to command the largest share of the gas detection

market, driven by rapid industrialization, large-scale infrastructure development, and the expansion of manufacturing ecosystems across China, India, South Korea, and Southeast Asia. CXOs in the region are significantly increasing investments in safety automation as industries such as oil & gas refining, petrochemicals, power generation, mining, and electronics manufacturing scale at unprecedented rates. The tightening of occupational safety regulations, alongside the rising frequency of industrial accidents, is accelerating the adoption of both fixed and portable gas detection systems. Furthermore, the APAC region's strong push toward renewable energy, hydrogen production, and LNG infrastructure is creating new, high-value demand for advanced detection technologies, including multi-gas, infrared, and electrochemical systems. The region's cost-sensitive yet high-volume market dynamics also attract leading global vendors to localize manufacturing and distribution. Collectively, these forces position Asia-Pacific as the fastest-growing and largest contributor to global gas detection revenues over the coming decade.

By Company Type: Tier 1 – 38%, Tier 2 – 28%, and Tier 3 – 34%

By Designation: C-level Executives – 40%, Directors – 30%, and Others – 30%

By Region: North America – 35%, Europe – 35%, Asia Pacific– 20%, and RoW – 10%

Prominent players profiled in this report include Honeywell International Inc. (US), MSA (US), Drägerwerk AG & Co. KGaA (Germany), Industrial Scientific (US) and Halma Plc (UK).

Report Coverage

The report defines, describes, and forecasts the gas detection market based on installation type (fixed, portable), Gas Type(Oxygen (O₂), carbon monoxide (CO), carbon dioxide (CO₂), ammonia (NH₃), chlorine (Cl), hydrogen sulfide (H₂S), nitrogen oxide (NO_x), volatile organic compounds (VOCs), sulfur dioxide (SO₂), methane (CH₄), hydrocarbons, hydrogen.) Device Type (Single-use, Multi-use), Vertical (Oil & Gas, Mining, Manufacturing & Industrial, Chemical & Petrochemical, Power generation, Building & Construction and Others) and region (North America, Europe, Asia Pacific, RoW). It provides detailed information regarding drivers, restraints, opportunities, and challenges influencing market growth. It also analyzes competitive developments such as acquisitions, product launches, expansions, and actions carried out by key players to

grow in the market.

Reasons to Buy This Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue for the overall gas detection market and the subsegments. The report will help stakeholders understand the competitive landscape and gain more insight to position their business better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market's pulse and provides information on key drivers, restraints, opportunities, and challenges.

The report will provide insights into the following points:

Analysis of key drivers (Stringent global safety and environmental regulations, Rising industrialization and automation), restraints (High installation and maintenance costs, technical limitations), opportunities (Growth of smart factories and connected worker solutions, Emerging industrial expansion), and challenges (Integration complexities, Harsh operating environments) in the gas detection market

Product developments/innovations: Detailed insights into upcoming technologies, research & development activities, and new product launches in the gas detection market

Market developments: Comprehensive information about lucrative markets; the report analyses the gas detection market across various regions

Market diversification: Exhaustive information about new products launched, untapped geographies, recent developments, and investments in the gas detection market

Competitive assessment: In-depth assessment of market share, growth strategies, and offering of leading players, including Honeywell International Inc. (US), MSA (US), Drägerwerk AG & Co. KGaA (Germany), Industrial Scientific (US) and Halma Plc (UK).in the gas detection market.

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