Gas Detection Equipment Market to Reach USD 8.6 Billion by 2035 Amid Rising Industrial Safety Demands

Global gas detection equipment market set to grow at 5.4% CAGR, driven by industrial safety regulations and rising demand across key sectors.

Gas Detection Equipment Market

ROCKVILLE, MD , MD, UNITED STATES, July 29, 2025 /EINPresswire.com/ -- The global gas detection equipment market is poised for substantial growth, with Fact.MR forecasting a rise from USD 5.1 billion in 2025 to USD 8.6 billion by 2035. This expansion reflects a robust compound annual growth rate (CAGR) of 5.4% during the forecast period.

The market's steady growth trajectory is largely fueled by increasing industrialization, rising safety concerns, and strict regulatory mandates aimed at ensuring worker and environmental safety across various high-risk industries.

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Key Takeaways from Market Study:

1. The global gas detection equipment market is projected to increase from USD 5.1 billion in 2025 to USD 8.6 billion by 2035, with a CAGR of 5.4% during the forecast period.
2. Demand is driven by increasing regulatory emphasis on workplace safety across industrial sectors.
3. Fixed gas detection systems hold a significant share due to their widespread use in manufacturing and processing industries.
4. Portable gas detectors are gaining popularity in mining, oil & gas, and emergency response applications.
5. North America remains a leading market due to strong industrial infrastructure and safety

regulations.

Leading Players Driving Innovation in the Gas Detection Equipment Market:

Prominent players in the market include MSA Safety Incorporated, Opgal, Drägerwerk AG & Co. KGaA, Teledyne Technologies Inc., and Emerson Electric Co.

Rising Demand Across Diverse Industries:

The demand for gas detection equipment continues to grow across multiple industries including oil & gas, chemicals & petrochemicals, manufacturing, utilities, metal & mining, water & wastewater, and government & military sectors. The oil & gas industry remains a dominant end-use segment, driven by the critical need for early gas leak detection in exploration, refining, and distribution operations. Similarly, manufacturing and chemical industries are embracing gas detection technologies to mitigate operational risks and ensure compliance with global safety standards.

Fixed vs. Portable Devices: Meeting Varied Industrial Needs:

Fact.MR's analysis categorizes gas detection equipment by type into fixed and portable systems. Fixed gas detectors hold a significant market share due to their integration into industrial infrastructure for continuous monitoring. However, portable gas detectors are gaining ground, particularly in confined spaces and field-based environments such as mining and emergency response, where mobility and real-time data are crucial.

Technological Advancements Driving Market Evolution:

The adoption of advanced sensor technologies is another major factor propelling the market forward. Electrochemical, infrared, catalytic, metal oxide, and zirconia sensors are widely used depending on gas type and application. These sensors offer higher sensitivity, faster response times, and improved accuracy, enhancing workplace safety.

Moreover, the integration of wireless and IoT-enabled communication systems is revolutionizing the way gas detection equipment operates. Wireless systems provide real-time alerts and remote monitoring capabilities, minimizing human exposure to hazardous environments. These innovations are playing a pivotal role in modernizing traditional gas detection infrastructure.

Gas Type Segmentation Reflects Versatile Applications:

Gas detection equipment is utilized to detect a wide array of gases, including combustible gases, toxic gases, oxygen, and dedicated gases. Combustible gas detectors are particularly in demand across oil & gas and mining sectors, while toxic gas detectors are crucial in chemical processing and manufacturing environments. Oxygen sensors are essential in confined spaces to prevent

oxygen deficiency or enrichment-related hazards.

Gas Detection Equipment Market News:

In June 2025, Teledyne Gas & Flame Detection launched the PS DUO, a portable, ATEX/IECEx-certified device designed to detect two gases simultaneously—such as CO and H□S or NH□ and SO□. Built with a rugged, ergonomic design and offering a two-year battery life, it is tailored for field workers in high-risk industrial settings.

In May 2025, Honeywell unveiled a Hydrogen Leak Detector based on thermal conductivity technology, capable of identifying leaks as small as 50 ppm. The sensor requires no recalibration for up to 10 years, representing a significant advancement in hydrogen safety and operational efficiency.

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More Valuable Insights on Offer:

Fact.MR, in its new offering, presents an unbiased analysis of the Gas Detection Equipment Market, presenting historical data for 2020 to 2024 and forecast statistics for 2025 to 2035.

The gas detection equipment market is segmented by type into fixed and portable systems. End-use industries include oil & gas, government & military, manufacturing, chemicals & petrochemicals, water & wastewater, metal & mining, and utilities. By communication type, it is divided into wired and wireless. Gas types covered are combustible, toxic, oxygen, and dedicated. Sensor technologies include electrochemical, infrared, metal oxide, catalytic, and zirconia. Regionally, the market spans North America, Latin America, Western and Eastern Europe, East Asia, South Asia & Pacific, and the Middle East & Africa.

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The global gas and liquid flow management systems market is expected to reach USD 30.9 billion by 2035, up from USD 19.8 billion in 2024. During the forecast period, the industry is projected to expand at a CAGR of 4.2%.

An electric generator is also known as genset, an alternative and consistent source that converts fuel into electrical energy. Gas generators are the most common type of generators, designed for maximum electrical power with high reliability, availability and low operating and service costs.

About Us:

Fact.MR is a distinguished market research company renowned for its comprehensive market

reports and invaluable business insights. As a prominent player in business intelligence, we deliver deep analysis, uncovering market trends, growth paths, and competitive landscapes. Renowned for its commitment to accuracy and reliability, we empower businesses with crucial data and strategic recommendations, facilitating informed decision-making and enhancing market positioning.

With its unwavering dedication to providing reliable market intelligence, FACT.MR continues to assist companies in navigating dynamic market challenges with confidence and achieving long-term success. With a global presence and a team of experienced analysts, FACT.MR ensures its clients receive actionable insights to capitalize on emerging opportunities and stay ahead in the competitive landscape.

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