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Gas Analyzers Market Forecasts to 2032 – Global Analysis By Product (Portable Gas Analyzers, Fixed Gas Analyzers, Inline Gas Analyzers, Remote and Other Products), Gas Type, Sales Channel, Technology, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Gas Analyzers Market is accounted for $5.97 billion in 2025 and is expected to reach $12.88 billion by 2032 growing at a CAGR of 11.6% during the forecast period. Gas analysers are high-precision devices that measure, identify, and track the concentration of different gases in a sample. In order to guarantee safety, regulatory compliance, and process efficiency, these devices are crucial in sectors including manufacturing, energy production, healthcare, and environmental monitoring. Gas analysers use methods including infrared absorption, gas chromatography, or electrochemical sensing and can be stationary or portable. Applications for them are numerous and include hazardous gas detection, air quality evaluation, and emissions testing. Both industrial operations and environmental protection initiatives are supported by their precise and timely measurements.

Market Dynamics:

Driver:

Industrial safety and process optimization

Early detection of dangerous gases by gas analysers helps to avoid mishaps and guarantee worker safety. In order to improve operating efficiency and cut waste, process optimisation also significantly depends on precise gas composition data. Real-time monitoring made possible by gas analysers enables enterprises to swiftly modify

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settings for peak performance. The utility of smart sensors in automated safety and control systems is further increased by their integration with the Internet of Things. Process efficiency and safety compliance work together to drive the market for gas analysers.

Restraint:

Complex calibration and maintenance

The necessity for highly qualified technicians to precisely calibrate gas analyser devices raises operating costs. Maintaining accuracy requires frequent recalibration, which interferes with operations and lowers productivity. Managing maintenance plans can be both financially and logistically difficult for small and mid-sized end users. Furthermore, incorrect calibration might result in inaccurate readings, which raises issues with safety and compliance. Because of this, prospective purchasers might be reluctant to spend money on these analysers, which would restrict market growth.

Opportunity:

Integration with automation systems

Process efficiency is increased by automated gas analysers because they minimise human error and manual intervention. By facilitating smooth data exchange with control units, these systems guarantee precise, timely, and continuous gas measurement. Predictive maintenance is further supported by integration, which identifies possible system issues before they happen. Automated solutions make it easier to achieve strict environmental standards as enterprises place a higher priority on safety and regulatory compliance. In general, automation increases the need for more intelligent, networked gas analysers in industries like manufacturing, chemicals, and oil and gas.

Threat:

Intense market competition

Cost-cutting strategies brought on by fierce market competition can jeopardise the quality and innovation of products. The market is increasingly saturated by low-cost suppliers from emerging nations and new competitors, making it more difficult for incumbent firms to hold onto their supremacy. Consumers are growing more cost conscious, emphasising economy over cutting-edge features. As a result, businesses

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find it difficult to set their products apart in a crowded market. All things considered, this impedes development and deters sustained investments in R&D.

Covid-19 Impact

The COVID-19 pandemic significantly impacted the gas analyzers market, initially causing supply chain disruptions, project delays, and reduced industrial activity due to global lockdowns. However, the demand rebounded as governments and industries prioritized air quality monitoring and workplace safety. Healthcare facilities and pharmaceutical production also drove increased use of gas analyzers for infection control and oxygen monitoring. The pandemic highlighted the importance of precise gas detection technologies, accelerating innovations and investments in portable and remote monitoring solutions across various sectors.

The carbon monoxide (CO) segment is expected to be the largest during the forecast period

The carbon monoxide (CO) segment is expected to account for the largest market share during the forecast period, due to rising concerns over air quality and worker safety in industrial settings. CO is a highly toxic gas, making continuous monitoring essential in sectors like manufacturing, mining, and oil & gas. Regulatory bodies across the globe have implemented strict emission norms, boosting the demand for advanced CO gas analyzers. Moreover, the growing adoption of smart and portable CO detection devices supports their integration into residential and commercial infrastructure. This surge in awareness and regulation is driving significant growth in the CO gas analyzers segment.

The metals & mining segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the metals & mining segment is predicted to witness the highest growth rate by requiring precise monitoring of gases during ore processing and smelting to ensure safety and regulatory compliance. Gas analyzers help detect harmful emissions like sulfur dioxide and carbon monoxide, essential for maintaining environmental standards in mining operations. Additionally, they improve operational efficiency by optimizing combustion processes in metal refining. The segment's growth, driven by increased mining activities worldwide, further propels the need for advanced gas detection technologies. Overall, metals and mining significantly contribute to the expansion of the market through safety, environmental, and efficiency demands.

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Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to growing industrialization, urbanization, and increasing environmental concerns. Countries like China, India, and South Korea are ramping up investments in industrial automation and air quality monitoring infrastructure. The need to comply with emerging emissions standards and rising awareness of occupational safety drive adoption. Additionally, rapid growth in the energy, manufacturing, and semiconductor sectors propels demand. The market is highly dynamic, with both international and local players competing on price and innovation.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR by stringent environmental regulations and a strong emphasis on industrial emission monitoring. The U.S. and Canada are leading in the adoption of advanced gas analysis technologies across sectors like oil & gas, chemicals, and power generation. Demand for portable and real-time monitoring solutions is rising, supported by government policies on clean air. Technological innovations and the presence of major manufacturers further fuel market expansion, especially in petrochemical and energy-intensive industries.

Key players in the market

Some of the key players profiled in the Gas Analyzers Market include ABB Ltd, Honeywell International Inc., Emerson Electric Co., Siemens AG, Thermo Fisher Scientific Inc., HORIBA Ltd., Yokogawa Electric Corporation, Servomex (Spectris PLC), Teledyne Advanced Pollution Instrumentation (TAPI), SICK AG, Dragerwerk AG & Co. KGaA, Advanced Micro Instruments Inc., AMETEK MOCON, California Analytical Instruments Inc., Cambridge Sensotec Limited, Gasera Ltd., Enotec GmbH and Testo SE & Co. KGaA.

Key Developments:

In March 2025, Honeywell announced an agreement to acquire Sundyne, a leader in engineered pumps and compressors, for $2.16 billion. This acquisition aims to expand Honeywell's critical equipment portfolio and aftermarket services, particularly in refining, petrochemicals, LNG, and renewable fuels sectors.

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In March 2024, ABB unveiled an AI-driven flue gas analyzer equipped with wireless connectivity and real-time calibration features. This innovation is designed to enhance emission monitoring accuracy and reduce industrial downtime.

In August 2023, ABB signed a framework agreement with Samsung Engineering to collaborate on engineering and procurement activities in Saudi Arabia. Under this agreement, ABB becomes the single-source vendor for gas analyzer system integration for Samsung in the Kingdom, aiming to provide comprehensive analytical solutions to the Saudi oil and gas market.

Products Covered:

- Portable Gas Analyzers
- Fixed Gas Analyzers
- Inline Gas Analyzers
- Remote
- Other Products

Gas Types Covered:

- Oxygen (O2)
- Carbon Dioxide (CO2)
- Carbon Monoxide (CO)
- Methane (CH4)
- Ammonia (NH3)
- Hydrogen Sulfide (H2S)
- Nitrogen Oxides (NOx)

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Sulfur Oxides (SOx)

Volatile Organic Compounds (VOCs)

Other Gas Types

Sale Channels Covered:

Direct Sales

Distributors/Wholesalers

Online Retail

Technologies Covered:

Electrochemical

Infrared (NDIR)

Paramagnetic

Thermal Conductivity

Flame Ionization Detection (FID)

Photoionization Detection (PID)

Tunable Diode Laser Spectroscopy (TDLS)

Zirconia

Catalytic

Other Technologies

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Applications Covered:

- Emission Monitoring
- Process Monitoring
- Environmental Monitoring
- Safety Monitoring
- Leak Detection
- Quality Control
- Other Applications

End Users Covered:

- Oil & Gas
- Chemicals & Petrochemicals
- Power Generation
- Metals & Mining
- Pharmaceuticals
- Food & Beverages
- Water & Wastewater Treatment
- Pulp & Paper
- Automotive
- Semiconductor & Electronics

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- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand

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South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market 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

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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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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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