

Global Ammonia Gas Sensor Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ammonia Gas Sensor Modules market size is expected to reach \$ 2754 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

In 2025, the global Ammonia Gas Sensor Module market ships roughly 18 million units against an installed capacity of about 22 million units, with an average selling price near USD 75 and gross margins around 44%. Ammonia Gas Sensor Modules are compact, integrated detection units that combine an NH₃-sensitive sensing element (electrochemical, metal-oxide semiconductor, optical, or polymer-based), signal conditioning circuitry, temperature/humidity compensation, and digital or analog output into a ready-to-deploy package for real-time ammonia monitoring in refrigeration systems, agriculture, food storage, industrial safety, medical devices, and environmental monitoring. The supply chain begins upstream with specialty materials such as noble metal electrodes, metal-oxide films, MEMS substrates, electrolytes, optical components, and microcontrollers, sourced from chemical suppliers and semiconductor fabs; midstream, sensor OEMs fabricate the sensing elements, assemble MEMS chips or electrochemical cells, integrate ASICs and firmware, and encapsulate them into calibrated modules; downstream, these modules are embedded by system integrators into gas detectors, HVAC and refrigeration controllers, IoT nodes, smart farming equipment, and portable safety devices, which are then distributed through industrial automation vendors, safety equipment brands, and OEM channels to end users in cold-chain logistics, fertilizer plants, livestock farms, laboratories, and industrial facilities.

This report studies the global Ammonia Gas Sensor Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ammonia Gas Sensor Modules and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ammonia Gas Sensor Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ammonia Gas Sensor Modules total production and demand, 2021-2032, (K Units)

Global Ammonia Gas Sensor Modules total production value, 2021-2032, (USD Million)

Global Ammonia Gas Sensor Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ammonia Gas Sensor Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ammonia Gas Sensor Modules domestic production, consumption, key domestic manufacturers and share

Global Ammonia Gas Sensor Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ammonia Gas Sensor Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ammonia Gas Sensor Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ammonia Gas Sensor Modules market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Honeywell, MSA Safety, Drägerwerk, SGX Sensortech, AMETEK, Sensirion, Figaro Engineering, Membrapor, ams OSRAM, Nemoto Sensor-Engineering, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ammonia Gas Sensor Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ammonia Gas Sensor Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ammonia Gas Sensor Modules Market, Segmentation by Type:

Analog Module Type

Digital Module Type

Global Ammonia Gas Sensor Modules Market, Segmentation by Power Range:

Ultra-low Power (100 mW)

Global Ammonia Gas Sensor Modules Market, Segmentation by Application:

Refrigerated Logistics

Agriculture & Livestock

Chemical Production

Food & Beverage Processing

Environmental Monitoring

Medical Devices

Industrial Safety

Others

Companies Profiled:

Honeywell

MSA Safety

Drägerwerk

SGX Sensortech

AMETEK

Sensirion

Figaro Engineering

Membrapor

ams OSRAM

Nemoto Sensor-Engineering

Dynamant

Endress+Hauser

Gasera

Riken Keiki

Key Questions Answered:

1. How big is the global Ammonia Gas Sensor Modules market?
2. What is the demand of the global Ammonia Gas Sensor Modules market?
3. What is the year over year growth of the global Ammonia Gas Sensor Modules market?
4. What is the production and production value of the global Ammonia Gas Sensor Modules market?
5. Who are the key producers in the global Ammonia Gas Sensor Modules market?
6. What are the growth factors driving the market demand?

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