

Global Ammonia Gas Sensor Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ammonia Gas Sensor Modules market size was valued at US\$ 1379 million in 2025 and is forecast to a readjusted size of US\$ 2754 million by 2032 with a CAGR of 10.4% during review period.

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 is a detailed and comprehensive analysis for global Ammonia Gas Sensor

Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ammonia Gas Sensor Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ammonia Gas Sensor Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ammonia Gas Sensor Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ammonia Gas Sensor Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Ammonia Gas Sensor Modules
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Ammonia Gas Sensor Modules market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Ammonia Gas Sensor Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Analog Module Type

Digital Module Type

Market segment by Power Range

Ultra-low Power (100 mW)

Market segment by Application

Refrigerated Logistics

Agriculture & Livestock

Chemical Production

Food & Beverage Processing

Environmental Monitoring

Medical Devices

Industrial Safety

Others

Major players covered

Honeywell

MSA Safety

Drägerwerk

SGX Sensortech

AMETEK

Sensirion

Figaro Engineering

Membrapor

ams OSRAM

Nemoto Sensor-Engineering

Dynament

Endress+Hauser

Gasera

Riken Keiki

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ammonia Gas Sensor Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ammonia Gas Sensor Modules, with price, sales quantity, revenue, and global market share of Ammonia Gas Sensor Modules from 2021 to 2026.

Chapter 3, the Ammonia Gas Sensor Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ammonia Gas Sensor Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Ammonia Gas Sensor Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ammonia Gas Sensor Modules.

Chapter 14 and 15, to describe Ammonia Gas Sensor Modules sales channel, distributors, customers, research findings and conclusion.

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