

Global Ammonia Gas Sensor Modules Market Growth 2026-2032

<https://marketpublishers.com/r/G0430FB24231EN.html>

Date: May 2026

Pages: 120

Price: US\$ 3,660.00 (Single User License)

ID: G0430FB24231EN

Abstracts

The global Ammonia Gas Sensor Modules market size is predicted to grow from US\$ 1311 million in 2025 to US\$ 2711 million in 2032; it is expected to grow at a CAGR of 11.0% from 2026 to 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.

United States market for Ammonia Gas Sensor Modules is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Ammonia Gas Sensor Modules is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Ammonia Gas Sensor Modules is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Ammonia Gas Sensor Modules players cover Honeywell, MSA Safety, Drägerwerk, SGX Sensortech, AMETEK, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Ammonia Gas Sensor Modules Industry Forecast” looks at past sales and reviews total world Ammonia Gas Sensor Modules sales in 2025, providing a comprehensive analysis by region and market sector of projected Ammonia Gas Sensor Modules sales for 2026 through 2032. With Ammonia Gas Sensor Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ammonia Gas Sensor Modules industry.

This Insight Report provides a comprehensive analysis of the global Ammonia Gas Sensor Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ammonia Gas Sensor Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ammonia Gas Sensor Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ammonia Gas Sensor Modules and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ammonia Gas Sensor Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of Ammonia Gas Sensor Modules market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Analog Module Type

Digital Module Type

Segmentation by Power Range:

Ultra-low Power (100 mW)

Segmentation by Application:

Refrigerated Logistics

Agriculture & Livestock

Chemical Production

Food & Beverage Processing

Environmental Monitoring

Medical Devices

Industrial Safety

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Honeywell

MSA Safety

Drägerwerk

SGX Sensortech

AMETEK

Sensirion

Figaro Engineering

Membrapor

ams OSRAM

Nemoto Sensor-Engineering

Dynament

Endress+Hauser

Gasera

Riken Keiki

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ammonia Gas Sensor Modules market?

What factors are driving Ammonia Gas Sensor Modules market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Ammonia Gas Sensor Modules market opportunities vary by end market size?
How does Ammonia Gas Sensor Modules break out by Type, by Application?

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