

Global Ammonia (NH₃) Gas Sensors Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G769ABF76A11EN.html>

Date: January 2026

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G769ABF76A11EN

Abstracts

The global Ammonia (NH₃) Gas Sensors market size is expected to reach \$ 279 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Ammonia (NH₃) is a very useful but very dangerous gas. Dangerous because it corrodes the skin, eyes and lungs; useful because ammonia is used in large quantities in the production of fertilizers, plastics, dyes and textiles, and as a refrigerant.

Ammonia gas sensor is a kind of toxic gas sensor mainly used for industrial safety detection. Its working principle is to use electrochemical reaction to obtain the content value of the measured gas by measuring the magnitude of the induced current.

Ammonia sensors are heavily used in manufacturing and industrial processes. It is mainly used in chemical industry, agriculture, atmospheric detection, automobile, business (smart public toilet) and other fields.

At present, the mainstream technology route of ammonia sensors is electrochemistry, and its core advantage is low cost. Ammonia sensor companies mainly come from the United States, Europe, Japan, etc., and the leading companies include Honeywell, Munters Corporation, Nemoto Sensor, Figaro Engineering, AlphaSense (Ametek), etc. The top 3 companies have a share of nearly 35%.

In terms of technology, ammonia sensors are difficult to operate. Under the influence of other gases and environmental humidity, there are certain difficulties in low-concentration detection of sensors; and because most of them use electrochemical technology, the stability of sensors will also be affected in high temperature and high

humidity environments.

In terms of future trends: realize ultra-low concentration detection, and promote the development of sensors to higher sensitivity in specific application scenarios; in addition, multi-parameter integrated development, integrating ammonia sensors with temperature, humidity, PM2.5 and other sensors to form an environmental monitoring comprehensive module, which effectively improves the accuracy, comprehensiveness and practicality of monitoring.

This report studies the global Ammonia (NH₃) Gas Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ammonia (NH₃) Gas Sensors 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 (NH₃) Gas Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ammonia (NH₃) Gas Sensors total production and demand, 2021-2032, (K Units)

Global Ammonia (NH₃) Gas Sensors total production value, 2021-2032, (USD Million)

Global Ammonia (NH₃) Gas Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ammonia (NH₃) Gas Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ammonia (NH₃) Gas Sensors domestic production, consumption, key domestic manufacturers and share

Global Ammonia (NH₃) Gas Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ammonia (NH₃) Gas Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ammonia (NH₃) Gas Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ammonia (NH₃) Gas Sensors 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, Munters Corporation,

Nemoto Sensor, Figaro Engineering, AlphaSense (Ametek), Angst+Pfister Sensors and Power AG, ELT SENSOR, OTT HydroMet, SGX Sensortech (Amphenol), Winsensor (Hanwei Technology), 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 (NH₃) Gas Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 (NH₃) Gas Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ammonia (NH₃) Gas Sensors Market, Segmentation by Type:

0-100ppm

101-500ppm

501-1000ppm

Others

Global Ammonia (NH₃) Gas Sensors Market, Segmentation by Application:

Chemical

Atmospheric Detection

Agriculture

Automotive

Commercial

Others

Companies Profiled:

Honeywell

Munters Corporation

Nemoto Sensor

Figaro Engineering

AlphaSense (Ametek)

Angst+Pfister Sensors and Power AG

ELT SENSOR

OTT HydroMet

SGX Sensortech (Amphenol)

Winsensor (Hanwei Technology)

SemeaTech

Hunan Firstrate Sensor Co

Aeroqual

Singoan

SENKO CO., LTD

Key Questions Answered:

1. How big is the global Ammonia (NH₃) Gas Sensors market?
2. What is the demand of the global Ammonia (NH₃) Gas Sensors market?
3. What is the year over year growth of the global Ammonia (NH₃) Gas Sensors market?
4. What is the production and production value of the global Ammonia (NH₃) Gas Sensors market?
5. Who are the key producers in the global Ammonia (NH₃) Gas Sensors market?
6. What are the growth factors driving the market demand?

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