

Global Ammonia (NH₃) Gas Sensors Market Growth 2025-2031

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Abstracts

The global Ammonia (NH₃) Gas Sensors market size is predicted to grow from US\$ 180 million in 2025 to US\$ 257 million in 2031; it is expected to grow at a CAGR of 6.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

LP Information, Inc. (LPI) ' newest research report, the "Ammonia (NH₃) Gas Sensors Industry Forecast" looks at past sales and reviews total world Ammonia (NH₃) Gas Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Ammonia (NH₃) Gas Sensors sales for 2025 through 2031. With Ammonia (NH₃) Gas Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ammonia (NH₃) Gas Sensors industry.

This Insight Report provides a comprehensive analysis of the global Ammonia (NH₃) Gas Sensors 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 (NH₃) Gas Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ammonia (NH₃) Gas Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ammonia (NH₃) Gas Sensors 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 (NH₃) Gas Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Ammonia (NH₃) Gas Sensors market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

0-100ppm

101-500ppm

501-1000ppm

Others

Segmentation by Application:

Chemical

Atmospheric Detection

Agriculture

Automotive

Commercial

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

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 Addressed in this Report

What is the 10-year outlook for the global Ammonia (NH₃) Gas Sensors market?

What factors are driving Ammonia (NH₃) Gas Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Ammonia (NH₃) Gas Sensors market opportunities vary by end market size?
How does Ammonia (NH₃) Gas Sensors break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Ammonia (NH₃) Gas Sensors Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Ammonia (NH₃) Gas Sensors by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Ammonia (NH₃) Gas Sensors by Country/Region, 2020, 2024 & 2031
- 2.2 Ammonia (NH₃) Gas Sensors Segment by Type
 - 2.2.1 0-100ppm
 - 2.2.2 101-500ppm
 - 2.2.3 501-1000ppm
 - 2.2.4 Others
- 2.3 Ammonia (NH₃) Gas Sensors Sales by Type
 - 2.3.1 Global Ammonia (NH₃) Gas Sensors Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Ammonia (NH₃) Gas Sensors Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Ammonia (NH₃) Gas Sensors Sale Price by Type (2020-2025)
- 2.4 Ammonia (NH₃) Gas Sensors Segment by Application
 - 2.4.1 Chemical
 - 2.4.2 Atmospheric Detection
 - 2.4.3 Agriculture
 - 2.4.4 Automotive
 - 2.4.5 Commercial
 - 2.4.6 Others
- 2.5 Ammonia (NH₃) Gas Sensors Sales by Application

2.5.1 Global Ammonia (NH3) Gas Sensors Sale Market Share by Application (2020-2025)

2.5.2 Global Ammonia (NH3) Gas Sensors Revenue and Market Share by Application (2020-2025)

2.5.3 Global Ammonia (NH3) Gas Sensors Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Ammonia (NH3) Gas Sensors Breakdown Data by Company

3.1.1 Global Ammonia (NH3) Gas Sensors Annual Sales by Company (2020-2025)

3.1.2 Global Ammonia (NH3) Gas Sensors Sales Market Share by Company (2020-2025)

3.2 Global Ammonia (NH3) Gas Sensors Annual Revenue by Company (2020-2025)

3.2.1 Global Ammonia (NH3) Gas Sensors Revenue by Company (2020-2025)

3.2.2 Global Ammonia (NH3) Gas Sensors Revenue Market Share by Company (2020-2025)

3.3 Global Ammonia (NH3) Gas Sensors Sale Price by Company

3.4 Key Manufacturers Ammonia (NH3) Gas Sensors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Ammonia (NH3) Gas Sensors Product Location Distribution

3.4.2 Players Ammonia (NH3) Gas Sensors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AMMONIA (NH3) GAS SENSORS BY GEOGRAPHIC REGION

4.1 World Historic Ammonia (NH3) Gas Sensors Market Size by Geographic Region (2020-2025)

4.1.1 Global Ammonia (NH3) Gas Sensors Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Ammonia (NH3) Gas Sensors Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Ammonia (NH3) Gas Sensors Market Size by Country/Region (2020-2025)

4.2.1 Global Ammonia (NH3) Gas Sensors Annual Sales by Country/Region

(2020-2025)

4.2.2 Global Ammonia (NH3) Gas Sensors Annual Revenue by Country/Region

(2020-2025)

4.3 Americas Ammonia (NH3) Gas Sensors Sales Growth

4.4 APAC Ammonia (NH3) Gas Sensors Sales Growth

4.5 Europe Ammonia (NH3) Gas Sensors Sales Growth

4.6 Middle East & Africa Ammonia (NH3) Gas Sensors Sales Growth

5 AMERICAS

5.1 Americas Ammonia (NH3) Gas Sensors Sales by Country

5.1.1 Americas Ammonia (NH3) Gas Sensors Sales by Country (2020-2025)

5.1.2 Americas Ammonia (NH3) Gas Sensors Revenue by Country (2020-2025)

5.2 Americas Ammonia (NH3) Gas Sensors Sales by Type (2020-2025)

5.3 Americas Ammonia (NH3) Gas Sensors Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Ammonia (NH3) Gas Sensors Sales by Region

6.1.1 APAC Ammonia (NH3) Gas Sensors Sales by Region (2020-2025)

6.1.2 APAC Ammonia (NH3) Gas Sensors Revenue by Region (2020-2025)

6.2 APAC Ammonia (NH3) Gas Sensors Sales by Type (2020-2025)

6.3 APAC Ammonia (NH3) Gas Sensors Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Ammonia (NH3) Gas Sensors by Country

7.1.1 Europe Ammonia (NH3) Gas Sensors Sales by Country (2020-2025)

- 7.1.2 Europe Ammonia (NH₃) Gas Sensors Revenue by Country (2020-2025)
- 7.2 Europe Ammonia (NH₃) Gas Sensors Sales by Type (2020-2025)
- 7.3 Europe Ammonia (NH₃) Gas Sensors Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Ammonia (NH₃) Gas Sensors by Country
 - 8.1.1 Middle East & Africa Ammonia (NH₃) Gas Sensors Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Ammonia (NH₃) Gas Sensors Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Ammonia (NH₃) Gas Sensors Sales by Type (2020-2025)
- 8.3 Middle East & Africa Ammonia (NH₃) Gas Sensors Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Ammonia (NH₃) Gas Sensors
- 10.3 Manufacturing Process Analysis of Ammonia (NH₃) Gas Sensors
- 10.4 Industry Chain Structure of Ammonia (NH₃) Gas Sensors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Ammonia (NH3) Gas Sensors Distributors

11.3 Ammonia (NH3) Gas Sensors Customer

12 WORLD FORECAST REVIEW FOR AMMONIA (NH3) GAS SENSORS BY GEOGRAPHIC REGION

12.1 Global Ammonia (NH3) Gas Sensors Market Size Forecast by Region

12.1.1 Global Ammonia (NH3) Gas Sensors Forecast by Region (2026-2031)

12.1.2 Global Ammonia (NH3) Gas Sensors Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Ammonia (NH3) Gas Sensors Forecast by Type (2026-2031)

12.7 Global Ammonia (NH3) Gas Sensors Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Honeywell

13.1.1 Honeywell Company Information

13.1.2 Honeywell Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

13.1.3 Honeywell Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Honeywell Main Business Overview

13.1.5 Honeywell Latest Developments

13.2 Munters Corporation

13.2.1 Munters Corporation Company Information

13.2.2 Munters Corporation Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

13.2.3 Munters Corporation Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Munters Corporation Main Business Overview

13.2.5 Munters Corporation Latest Developments

13.3 Nemoto Sensor

- 13.3.1 Nemoto Sensor Company Information
- 13.3.2 Nemoto Sensor Ammonia (NH3) Gas Sensors Product Portfolios and Specifications
- 13.3.3 Nemoto Sensor Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.3.4 Nemoto Sensor Main Business Overview
- 13.3.5 Nemoto Sensor Latest Developments
- 13.4 Figaro Engineering
 - 13.4.1 Figaro Engineering Company Information
 - 13.4.2 Figaro Engineering Ammonia (NH3) Gas Sensors Product Portfolios and Specifications
 - 13.4.3 Figaro Engineering Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.4.4 Figaro Engineering Main Business Overview
 - 13.4.5 Figaro Engineering Latest Developments
- 13.5 AlphaSense (Ametek)
 - 13.5.1 AlphaSense (Ametek) Company Information
 - 13.5.2 AlphaSense (Ametek) Ammonia (NH3) Gas Sensors Product Portfolios and Specifications
 - 13.5.3 AlphaSense (Ametek) Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 AlphaSense (Ametek) Main Business Overview
 - 13.5.5 AlphaSense (Ametek) Latest Developments
- 13.6 Angst+Pfister Sensors and Power AG
 - 13.6.1 Angst+Pfister Sensors and Power AG Company Information
 - 13.6.2 Angst+Pfister Sensors and Power AG Ammonia (NH3) Gas Sensors Product Portfolios and Specifications
 - 13.6.3 Angst+Pfister Sensors and Power AG Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Angst+Pfister Sensors and Power AG Main Business Overview
 - 13.6.5 Angst+Pfister Sensors and Power AG Latest Developments
- 13.7 ELT SENSOR
 - 13.7.1 ELT SENSOR Company Information
 - 13.7.2 ELT SENSOR Ammonia (NH3) Gas Sensors Product Portfolios and Specifications
 - 13.7.3 ELT SENSOR Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 ELT SENSOR Main Business Overview
 - 13.7.5 ELT SENSOR Latest Developments

13.8 OTT HydroMet

13.8.1 OTT HydroMet Company Information

13.8.2 OTT HydroMet Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

13.8.3 OTT HydroMet Ammonia (NH₃) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 OTT HydroMet Main Business Overview

13.8.5 OTT HydroMet Latest Developments

13.9 SGX Sensortech (Amphenol)

13.9.1 SGX Sensortech (Amphenol) Company Information

13.9.2 SGX Sensortech (Amphenol) Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

13.9.3 SGX Sensortech (Amphenol) Ammonia (NH₃) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 SGX Sensortech (Amphenol) Main Business Overview

13.9.5 SGX Sensortech (Amphenol) Latest Developments

13.10 Winsensor (Hanwei Technology)

13.10.1 Winsensor (Hanwei Technology) Company Information

13.10.2 Winsensor (Hanwei Technology) Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

13.10.3 Winsensor (Hanwei Technology) Ammonia (NH₃) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Winsensor (Hanwei Technology) Main Business Overview

13.10.5 Winsensor (Hanwei Technology) Latest Developments

13.11 SemeaTech

13.11.1 SemeaTech Company Information

13.11.2 SemeaTech Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

13.11.3 SemeaTech Ammonia (NH₃) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 SemeaTech Main Business Overview

13.11.5 SemeaTech Latest Developments

13.12 Hunan Firstrate Sensor Co

13.12.1 Hunan Firstrate Sensor Co Company Information

13.12.2 Hunan Firstrate Sensor Co Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

13.12.3 Hunan Firstrate Sensor Co Ammonia (NH₃) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Hunan Firstrate Sensor Co Main Business Overview

13.12.5 Hunan Firstrate Sensor Co Latest Developments

13.13 Aeroqual

13.13.1 Aeroqual Company Information

13.13.2 Aeroqual Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

13.13.3 Aeroqual Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Aeroqual Main Business Overview

13.13.5 Aeroqual Latest Developments

13.14 Singoan

13.14.1 Singoan Company Information

13.14.2 Singoan Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

13.14.3 Singoan Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.14.4 Singoan Main Business Overview

13.14.5 Singoan Latest Developments

13.15 SENKO CO., LTD

13.15.1 SENKO CO., LTD Company Information

13.15.2 SENKO CO., LTD Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

13.15.3 SENKO CO., LTD Ammonia (NH3) Gas Sensors Sales, Revenue, Price and Gross Margin (2020-2025)

13.15.4 SENKO CO., LTD Main Business Overview

13.15.5 SENKO CO., LTD Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Ammonia (NH₃) Gas Sensors Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Ammonia (NH₃) Gas Sensors Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of 0-100ppm

Table 4. Major Players of 101-500ppm

Table 5. Major Players of 501-1000ppm

Table 6. Major Players of Others

Table 7. Global Ammonia (NH₃) Gas Sensors Sales by Type (2020-2025) & (K Units)

Table 8. Global Ammonia (NH₃) Gas Sensors Sales Market Share by Type (2020-2025)

Table 9. Global Ammonia (NH₃) Gas Sensors Revenue by Type (2020-2025) & (\$ million)

Table 10. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Type (2020-2025)

Table 11. Global Ammonia (NH₃) Gas Sensors Sale Price by Type (2020-2025) & (USD/Unit)

Table 12. Global Ammonia (NH₃) Gas Sensors Sale by Application (2020-2025) & (K Units)

Table 13. Global Ammonia (NH₃) Gas Sensors Sale Market Share by Application (2020-2025)

Table 14. Global Ammonia (NH₃) Gas Sensors Revenue by Application (2020-2025) & (\$ million)

Table 15. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Application (2020-2025)

Table 16. Global Ammonia (NH₃) Gas Sensors Sale Price by Application (2020-2025) & (USD/Unit)

Table 17. Global Ammonia (NH₃) Gas Sensors Sales by Company (2020-2025) & (K Units)

Table 18. Global Ammonia (NH₃) Gas Sensors Sales Market Share by Company (2020-2025)

Table 19. Global Ammonia (NH₃) Gas Sensors Revenue by Company (2020-2025) & (\$ millions)

Table 20. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Company (2020-2025)

Table 21. Global Ammonia (NH₃) Gas Sensors Sale Price by Company (2020-2025) &

(USD/Unit)

Table 22. Key Manufacturers Ammonia (NH₃) Gas Sensors Producing Area Distribution and Sales Area

Table 23. Players Ammonia (NH₃) Gas Sensors Products Offered

Table 24. Ammonia (NH₃) Gas Sensors Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 25. New Products and Potential Entrants

Table 26. Market M&A Activity & Strategy

Table 27. Global Ammonia (NH₃) Gas Sensors Sales by Geographic Region (2020-2025) & (K Units)

Table 28. Global Ammonia (NH₃) Gas Sensors Sales Market Share Geographic Region (2020-2025)

Table 29. Global Ammonia (NH₃) Gas Sensors Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 30. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Geographic Region (2020-2025)

Table 31. Global Ammonia (NH₃) Gas Sensors Sales by Country/Region (2020-2025) & (K Units)

Table 32. Global Ammonia (NH₃) Gas Sensors Sales Market Share by Country/Region (2020-2025)

Table 33. Global Ammonia (NH₃) Gas Sensors Revenue by Country/Region (2020-2025) & (\$ millions)

Table 34. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Country/Region (2020-2025)

Table 35. Americas Ammonia (NH₃) Gas Sensors Sales by Country (2020-2025) & (K Units)

Table 36. Americas Ammonia (NH₃) Gas Sensors Sales Market Share by Country (2020-2025)

Table 37. Americas Ammonia (NH₃) Gas Sensors Revenue by Country (2020-2025) & (\$ millions)

Table 38. Americas Ammonia (NH₃) Gas Sensors Sales by Type (2020-2025) & (K Units)

Table 39. Americas Ammonia (NH₃) Gas Sensors Sales by Application (2020-2025) & (K Units)

Table 40. APAC Ammonia (NH₃) Gas Sensors Sales by Region (2020-2025) & (K Units)

Table 41. APAC Ammonia (NH₃) Gas Sensors Sales Market Share by Region (2020-2025)

Table 42. APAC Ammonia (NH₃) Gas Sensors Revenue by Region (2020-2025) & (\$

millions)

Table 43. APAC Ammonia (NH3) Gas Sensors Sales by Type (2020-2025) & (K Units)

Table 44. APAC Ammonia (NH3) Gas Sensors Sales by Application (2020-2025) & (K Units)

Table 45. Europe Ammonia (NH3) Gas Sensors Sales by Country (2020-2025) & (K Units)

Table 46. Europe Ammonia (NH3) Gas Sensors Revenue by Country (2020-2025) & (\$ millions)

Table 47. Europe Ammonia (NH3) Gas Sensors Sales by Type (2020-2025) & (K Units)

Table 48. Europe Ammonia (NH3) Gas Sensors Sales by Application (2020-2025) & (K Units)

Table 49. Middle East & Africa Ammonia (NH3) Gas Sensors Sales by Country (2020-2025) & (K Units)

Table 50. Middle East & Africa Ammonia (NH3) Gas Sensors Revenue Market Share by Country (2020-2025)

Table 51. Middle East & Africa Ammonia (NH3) Gas Sensors Sales by Type (2020-2025) & (K Units)

Table 52. Middle East & Africa Ammonia (NH3) Gas Sensors Sales by Application (2020-2025) & (K Units)

Table 53. Key Market Drivers & Growth Opportunities of Ammonia (NH3) Gas Sensors

Table 54. Key Market Challenges & Risks of Ammonia (NH3) Gas Sensors

Table 55. Key Industry Trends of Ammonia (NH3) Gas Sensors

Table 56. Ammonia (NH3) Gas Sensors Raw Material

Table 57. Key Suppliers of Raw Materials

Table 58. Ammonia (NH3) Gas Sensors Distributors List

Table 59. Ammonia (NH3) Gas Sensors Customer List

Table 60. Global Ammonia (NH3) Gas Sensors Sales Forecast by Region (2026-2031) & (K Units)

Table 61. Global Ammonia (NH3) Gas Sensors Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 62. Americas Ammonia (NH3) Gas Sensors Sales Forecast by Country (2026-2031) & (K Units)

Table 63. Americas Ammonia (NH3) Gas Sensors Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 64. APAC Ammonia (NH3) Gas Sensors Sales Forecast by Region (2026-2031) & (K Units)

Table 65. APAC Ammonia (NH3) Gas Sensors Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 66. Europe Ammonia (NH3) Gas Sensors Sales Forecast by Country (2026-2031)

& (K Units)

Table 67. Europe Ammonia (NH3) Gas Sensors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Middle East & Africa Ammonia (NH3) Gas Sensors Sales Forecast by Country (2026-2031) & (K Units)

Table 69. Middle East & Africa Ammonia (NH3) Gas Sensors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 70. Global Ammonia (NH3) Gas Sensors Sales Forecast by Type (2026-2031) & (K Units)

Table 71. Global Ammonia (NH3) Gas Sensors Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 72. Global Ammonia (NH3) Gas Sensors Sales Forecast by Application (2026-2031) & (K Units)

Table 73. Global Ammonia (NH3) Gas Sensors Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 74. Honeywell Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 75. Honeywell Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 76. Honeywell Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Honeywell Main Business

Table 78. Honeywell Latest Developments

Table 79. Munters Corporation Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 80. Munters Corporation Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 81. Munters Corporation Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 82. Munters Corporation Main Business

Table 83. Munters Corporation Latest Developments

Table 84. Nemoto Sensor Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 85. Nemoto Sensor Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 86. Nemoto Sensor Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 87. Nemoto Sensor Main Business

Table 88. Nemoto Sensor Latest Developments

Table 89. Figaro Engineering Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 90. Figaro Engineering Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 91. Figaro Engineering Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 92. Figaro Engineering Main Business

Table 93. Figaro Engineering Latest Developments

Table 94. AlphaSense (Ametek) Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 95. AlphaSense (Ametek) Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 96. AlphaSense (Ametek) Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 97. AlphaSense (Ametek) Main Business

Table 98. AlphaSense (Ametek) Latest Developments

Table 99. Angst+Pfister Sensors and Power AG Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 100. Angst+Pfister Sensors and Power AG Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 101. Angst+Pfister Sensors and Power AG Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 102. Angst+Pfister Sensors and Power AG Main Business

Table 103. Angst+Pfister Sensors and Power AG Latest Developments

Table 104. ELT SENSOR Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 105. ELT SENSOR Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 106. ELT SENSOR Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 107. ELT SENSOR Main Business

Table 108. ELT SENSOR Latest Developments

Table 109. OTT HydroMet Basic Information, Ammonia (NH3) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 110. OTT HydroMet Ammonia (NH3) Gas Sensors Product Portfolios and Specifications

Table 111. OTT HydroMet Ammonia (NH3) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 112. OTT HydroMet Main Business

Table 113. OTT HydroMet Latest Developments

Table 114. SGX Sensortech (Amphenol) Basic Information, Ammonia (NH₃) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 115. SGX Sensortech (Amphenol) Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

Table 116. SGX Sensortech (Amphenol) Ammonia (NH₃) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 117. SGX Sensortech (Amphenol) Main Business

Table 118. SGX Sensortech (Amphenol) Latest Developments

Table 119. Winsensor (Hanwei Technology) Basic Information, Ammonia (NH₃) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 120. Winsensor (Hanwei Technology) Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

Table 121. Winsensor (Hanwei Technology) Ammonia (NH₃) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 122. Winsensor (Hanwei Technology) Main Business

Table 123. Winsensor (Hanwei Technology) Latest Developments

Table 124. SemeaTech Basic Information, Ammonia (NH₃) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 125. SemeaTech Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

Table 126. SemeaTech Ammonia (NH₃) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 127. SemeaTech Main Business

Table 128. SemeaTech Latest Developments

Table 129. Hunan Firstrate Sensor Co Basic Information, Ammonia (NH₃) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 130. Hunan Firstrate Sensor Co Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

Table 131. Hunan Firstrate Sensor Co Ammonia (NH₃) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 132. Hunan Firstrate Sensor Co Main Business

Table 133. Hunan Firstrate Sensor Co Latest Developments

Table 134. Aeroqual Basic Information, Ammonia (NH₃) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 135. Aeroqual Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

Table 136. Aeroqual Ammonia (NH₃) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 137. Aeroqual Main Business

Table 138. Aeroqual Latest Developments

Table 139. Singoan Basic Information, Ammonia (NH₃) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 140. Singoan Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

Table 141. Singoan Ammonia (NH₃) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 142. Singoan Main Business

Table 143. Singoan Latest Developments

Table 144. SENKO CO., LTD Basic Information, Ammonia (NH₃) Gas Sensors Manufacturing Base, Sales Area and Its Competitors

Table 145. SENKO CO., LTD Ammonia (NH₃) Gas Sensors Product Portfolios and Specifications

Table 146. SENKO CO., LTD Ammonia (NH₃) Gas Sensors Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 147. SENKO CO., LTD Main Business

Table 148. SENKO CO., LTD Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Ammonia (NH₃) Gas Sensors
- Figure 2. Ammonia (NH₃) Gas Sensors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Ammonia (NH₃) Gas Sensors Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Ammonia (NH₃) Gas Sensors Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Ammonia (NH₃) Gas Sensors Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Ammonia (NH₃) Gas Sensors Sales Market Share by Country/Region (2024)
- Figure 10. Ammonia (NH₃) Gas Sensors Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of 0-100ppm
- Figure 12. Product Picture of 101-500ppm
- Figure 13. Product Picture of 501-1000ppm
- Figure 14. Product Picture of Others
- Figure 15. Global Ammonia (NH₃) Gas Sensors Sales Market Share by Type in 2025
- Figure 16. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Type (2020-2025)
- Figure 17. Ammonia (NH₃) Gas Sensors Consumed in Chemical
- Figure 18. Global Ammonia (NH₃) Gas Sensors Market: Chemical (2020-2025) & (K Units)
- Figure 19. Ammonia (NH₃) Gas Sensors Consumed in Atmospheric Detection
- Figure 20. Global Ammonia (NH₃) Gas Sensors Market: Atmospheric Detection (2020-2025) & (K Units)
- Figure 21. Ammonia (NH₃) Gas Sensors Consumed in Agriculture
- Figure 22. Global Ammonia (NH₃) Gas Sensors Market: Agriculture (2020-2025) & (K Units)
- Figure 23. Ammonia (NH₃) Gas Sensors Consumed in Automotive
- Figure 24. Global Ammonia (NH₃) Gas Sensors Market: Automotive (2020-2025) & (K Units)
- Figure 25. Ammonia (NH₃) Gas Sensors Consumed in Commercial
- Figure 26. Global Ammonia (NH₃) Gas Sensors Market: Commercial (2020-2025) & (K Units)

Figure 27. Ammonia (NH₃) Gas Sensors Consumed in Others

Figure 28. Global Ammonia (NH₃) Gas Sensors Market: Others (2020-2025) & (K Units)

Figure 29. Global Ammonia (NH₃) Gas Sensors Sale Market Share by Application (2024)

Figure 30. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Application in 2025

Figure 31. Ammonia (NH₃) Gas Sensors Sales by Company in 2025 (K Units)

Figure 32. Global Ammonia (NH₃) Gas Sensors Sales Market Share by Company in 2025

Figure 33. Ammonia (NH₃) Gas Sensors Revenue by Company in 2025 (\$ millions)

Figure 34. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Company in 2025

Figure 35. Global Ammonia (NH₃) Gas Sensors Sales Market Share by Geographic Region (2020-2025)

Figure 36. Global Ammonia (NH₃) Gas Sensors Revenue Market Share by Geographic Region in 2025

Figure 37. Americas Ammonia (NH₃) Gas Sensors Sales 2020-2025 (K Units)

Figure 38. Americas Ammonia (NH₃) Gas Sensors Revenue 2020-2025 (\$ millions)

Figure 39. APAC Ammonia (NH₃) Gas Sensors Sales 2020-2025 (K Units)

Figure 40. APAC Ammonia (NH₃) Gas Sensors Revenue 2020-2025 (\$ millions)

Figure 41. Europe Ammonia (NH₃) Gas Sensors Sales 2020-2025 (K Units)

Figure 42. Europe Ammonia (NH₃) Gas Sensors Revenue 2020-2025 (\$ millions)

Figure 43. Middle East & Africa Ammonia (NH₃) Gas Sensors Sales 2020-2025 (K Units)

Figure 44. Middle East & Africa Ammonia (NH₃) Gas Sensors Revenue 2020-2025 (\$ millions)

Figure 45. Americas Ammonia (NH₃) Gas Sensors Sales Market Share by Country in 2025

Figure 46. Americas Ammonia (NH₃) Gas Sensors Revenue Market Share by Country (2020-2025)

Figure 47. Americas Ammonia (NH₃) Gas Sensors Sales Market Share by Type (2020-2025)

Figure 48. Americas Ammonia (NH₃) Gas Sensors Sales Market Share by Application (2020-2025)

Figure 49. United States Ammonia (NH₃) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 50. Canada Ammonia (NH₃) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 51. Mexico Ammonia (NH₃) Gas Sensors Revenue Growth 2020-2025 (\$

millions)

Figure 52. Brazil Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 53. APAC Ammonia (NH3) Gas Sensors Sales Market Share by Region in 2025

Figure 54. APAC Ammonia (NH3) Gas Sensors Revenue Market Share by Region (2020-2025)

Figure 55. APAC Ammonia (NH3) Gas Sensors Sales Market Share by Type (2020-2025)

Figure 56. APAC Ammonia (NH3) Gas Sensors Sales Market Share by Application (2020-2025)

Figure 57. China Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 58. Japan Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 59. South Korea Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 60. Southeast Asia Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 61. India Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 62. Australia Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 63. China Taiwan Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 64. Europe Ammonia (NH3) Gas Sensors Sales Market Share by Country in 2025

Figure 65. Europe Ammonia (NH3) Gas Sensors Revenue Market Share by Country (2020-2025)

Figure 66. Europe Ammonia (NH3) Gas Sensors Sales Market Share by Type (2020-2025)

Figure 67. Europe Ammonia (NH3) Gas Sensors Sales Market Share by Application (2020-2025)

Figure 68. Germany Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 69. France Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 70. UK Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 71. Italy Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 72. Russia Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 73. Middle East & Africa Ammonia (NH3) Gas Sensors Sales Market Share by Country (2020-2025)

Figure 74. Middle East & Africa Ammonia (NH3) Gas Sensors Sales Market Share by

Type (2020-2025)

Figure 75. Middle East & Africa Ammonia (NH3) Gas Sensors Sales Market Share by Application (2020-2025)

Figure 76. Egypt Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 77. South Africa Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 78. Israel Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 79. Turkey Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 80. GCC Countries Ammonia (NH3) Gas Sensors Revenue Growth 2020-2025 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Ammonia (NH3) Gas Sensors in 2025

Figure 82. Manufacturing Process Analysis of Ammonia (NH3) Gas Sensors

Figure 83. Industry Chain Structure of Ammonia (NH3) Gas Sensors

Figure 84. Channels of Distribution

Figure 85. Global Ammonia (NH3) Gas Sensors Sales Market Forecast by Region (2026-2031)

Figure 86. Global Ammonia (NH3) Gas Sensors Revenue Market Share Forecast by Region (2026-2031)

Figure 87. Global Ammonia (NH3) Gas Sensors Sales Market Share Forecast by Type (2026-2031)

Figure 88. Global Ammonia (NH3) Gas Sensors Revenue Market Share Forecast by Type (2026-2031)

Figure 89. Global Ammonia (NH3) Gas Sensors Sales Market Share Forecast by Application (2026-2031)

Figure 90. Global Ammonia (NH3) Gas Sensors Revenue Market Share Forecast by Application (2026-2031)

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