

Global Acetone Sensor Market Growth 2026-2032

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Abstracts

The global Acetone Sensor market size is predicted to grow from US\$ 313 million in 2025 to US\$ 559 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

Acetone sensors refer to sensors, sensor modules, or detection components used to detect acetone concentrations in gas-phase or volatile environments. They typically convert acetone concentrations in air, industrial environments, laboratory environments, or human breath into electrical signals, optical signals, digital signals, or visual readings through mechanisms such as semiconductor metal oxides, photoionization detection, infrared absorption, electrochemical reactions, colorimetric reactions, or other gas-sensitive materials. These products are mainly used in industrial VOC monitoring, solvent leak detection, occupational safety, laboratory safety, cleanroom and production environment monitoring, as well as research and device development for breath acetone detection related to diabetes, fat metabolism, ketosis status, and health management.

From the perspective of the industry's fundamental nature, acetone sensors are not a large market segment fully independent from gas sensors and VOC detection systems. Rather, they represent a specialized subcategory within volatile organic compound detection. Their value lies in the targeted identification, concentration monitoring, and risk warning of acetone, which is both a typical organic solvent and a human metabolic biomarker. On the industrial side, the focus is on the flammability, occupational exposure, and production safety risks caused by high-concentration acetone vapor. On the medical and health side, the focus is on the relationship between low-concentration breath acetone and fat metabolism, ketosis status, and diabetes management. Therefore, acetone sensors have both the attributes of a mature industrial safety detection application and an emerging breath diagnostic application. The market boundary needs to distinguish among acetone-specific sensors, VOC sensors capable

of detecting acetone, and complete gas detection instrument systems. From the perspective of demand structure, the main commercial demand for acetone sensors currently still comes from industrial VOC monitoring, solvent leak detection, laboratory safety, cleanrooms, and production environment monitoring. Acetone is widely used in coating, printing, cleaning, electronics manufacturing, chemical production, laboratories, and pharmaceutical manufacturing. Because it is highly volatile, flammable, and associated with occupational exposure risks, it needs to be included in VOC or solvent safety monitoring systems in factories, warehouses, laboratories, and production lines. By contrast, breath acetone detection has strong future potential and can be used for diabetes, weight loss, exercise metabolism, and ketosis monitoring. However, it is still constrained by selectivity, humidity interference, ethanol interference, low-concentration detection stability, calibration methods, and clinical validation. In the short term, it is more likely to appear in R&D, pilot projects, and small-scale health management devices. From the perspective of technology routes, metal oxide semiconductor sensors are widely used in acetone detection because they are relatively low-cost and easy to miniaturize. They are suitable for portable devices, breath detection research, and low-cost modules, but selectivity and humidity compensation are often key challenges. PID photoionization detectors are more commonly used for industrial total VOC monitoring and portable gas detectors. They offer fast response and high sensitivity, but usually lack acetone-specific selectivity, so their results need to be interpreted together with calibration and application context. Electrochemical VOC sensors are suitable for some air quality, safety monitoring, and fixed detection scenarios, while infrared and optical routes are more suitable for high-end analysis, specific wavelength absorption, or applications requiring higher stability. Colorimetric solutions are mostly used for passive sampling, occupational exposure assessment, or low-cost indication. Future technology upgrades will focus on improving acetone selectivity, reducing ethanol and water vapor interference, enhancing low-ppm / sub-ppm detection stability, achieving long-term maintenance-free operation, and enabling miniaturized integration. From the perspective of the competitive landscape, the acetone sensor market has a multi-layer structure consisting of specialized sensor manufacturers, VOC sensor manufacturers, gas detection instrument companies, and emerging breath detection companies. Companies such as Figaro are highly representative in acetone-specific semiconductor gas sensors. Ion Science, Alphasense, Membrapor, SPEC Sensors, and similar companies cover acetone detection more from the perspective of PID or electrochemical VOC sensors. Industrial safety instrument companies such as Dräger and Honeywell / RAE Systems enter acetone monitoring scenarios through portable or fixed VOC detectors. The breath acetone detection field is still at a relatively fragmented early stage, with many research institutions, start-ups, and health device developers involved, but only a limited number of companies have formed scalable, clinically

reliable, or consumer-grade stable products. From the perspective of market outlook, acetone sensors are a niche market combining mature VOC detection applications and emerging breath analysis applications. Industrial demand is relatively stable and is mainly driven by chemical safety, occupational health, laboratory management, clean manufacturing, and VOC emission regulation. Growth will not be especially high, but there will be ongoing replacement and upgrade demand. Breath applications have higher growth elasticity. If low-cost sensor solutions with high selectivity, humidity resistance, and ethanol interference resistance become mature and obtain sufficient clinical or health management validation, they may open new application space in diabetes, weight loss, sports nutrition, and metabolic monitoring. Overall, however, this market should not be estimated as a large-scale medical diagnostics market in the short term. Industrial VOC monitoring should be viewed as the core base market, while breath acetone detection should be treated as a medium- to long-term growth direction.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Acetone Sensor and breaks down the forecast by Technology, 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 Acetone Sensor.

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

Segmentation by Technology:

Metal Oxide Semiconductor Sensors

Hot-wire Semiconductor Sensors

PID VOC Sensors

Electrochemical VOC Sensors

Infrared / Optical Sensors

Colorimetric Sensors

Nanomaterial-based Sensors

Other / Hybrid Sensors

Segmentation by Target Gas Scope:

Acetone-only Detection

Acetone plus VOC Detection

Breath Biomarker Detection

Segmentation by Detection Range:

Sub-ppm Range

Low-ppm Range

Mid-ppm Range

High-ppm Range

Segmentation by Application:

- Industrial VOC Monitoring
- Solvent Leak Detection
- Occupational Safety Monitoring
- Laboratory Safety Monitoring
- Cleanroom / Production Environment Monitoring
- Breath Acetone Detection
- Environmental Air Quality Monitoring
- Research & Development

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.

Figaro Engineering Inc.

ION Science Ltd.

Alphasense / AMETEK MOCON

Membrapor AG

Honeywell / RAE Systems

Dräger

Key Questions Addressed in this Report

What is the 10-year outlook for the global Acetone Sensor market?

What factors are driving Acetone Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Acetone Sensor market opportunities vary by end market size?

How does Acetone Sensor break out by Technology, 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 Acetone Sensor Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Acetone Sensor by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Acetone Sensor by Country/Region, 2021, 2025 & 2032
- 2.2 Acetone Sensor Segment by Technology
 - 2.2.1 Metal Oxide Semiconductor Sensors
 - 2.2.2 Hot-wire Semiconductor Sensors
 - 2.2.3 PID VOC Sensors
 - 2.2.4 Electrochemical VOC Sensors
 - 2.2.5 Infrared / Optical Sensors
 - 2.2.6 Colorimetric Sensors
 - 2.2.7 Nanomaterial-based Sensors
 - 2.2.8 Other / Hybrid Sensors
 - 2.2.9 Acetone Sensor Sales by Technology
 - 2.2.9.1 Global Acetone Sensor Sales Market Share by Technology (2021-2026)
 - 2.2.9.2 Global Acetone Sensor Revenue and Market Share by Technology (2021-2026)
 - 2.2.9.3 Global Acetone Sensor Sale Price by Technology (2021-2026)
- 2.3 Acetone Sensor Segment by Target Gas Scope
 - 2.3.1 Acetone-only Detection
 - 2.3.2 Acetone plus VOC Detection
 - 2.3.3 Breath Biomarker Detection

2.3.4 Acetone Sensor Sales by Target Gas Scope

2.3.4.1 Global Acetone Sensor Sales Market Share by Target Gas Scope
(2021-2026)

2.3.4.2 Global Acetone Sensor Revenue and Market Share by Target Gas Scope
(2021-2026)

2.3.4.3 Global Acetone Sensor Sale Price by Target Gas Scope (2021-2026)

2.4 Acetone Sensor Segment by Detection Range

2.4.1 Sub-ppm Range

2.4.2 Low-ppm Range

2.4.3 Mid-ppm Range

2.4.4 High-ppm Range

2.4.5 Acetone Sensor Sales by Detection Range

2.4.5.1 Global Acetone Sensor Sales Market Share by Detection Range (2021-2026)

2.4.5.2 Global Acetone Sensor Revenue and Market Share by Detection Range
(2021-2026)

2.4.5.3 Global Acetone Sensor Sale Price by Detection Range (2021-2026)

2.5 Acetone Sensor Segment by Application

2.5.1 Industrial VOC Monitoring

2.5.2 Solvent Leak Detection

2.5.3 Occupational Safety Monitoring

2.5.4 Laboratory Safety Monitoring

2.5.5 Cleanroom / Production Environment Monitoring

2.5.6 Breath Acetone Detection

2.5.7 Environmental Air Quality Monitoring

2.5.8 Research & Development

2.5.9 Acetone Sensor Sales by Application

2.5.9.1 Global Acetone Sensor Sale Market Share by Application (2021-2026)

2.5.9.2 Global Acetone Sensor Revenue and Market Share by Application
(2021-2026)

2.5.9.3 Global Acetone Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Acetone Sensor Breakdown Data by Company

3.1.1 Global Acetone Sensor Annual Sales by Company (2021-2026)

3.1.2 Global Acetone Sensor Sales Market Share by Company (2021-2026)

3.2 Global Acetone Sensor Annual Revenue by Company (2021-2026)

3.2.1 Global Acetone Sensor Revenue by Company (2021-2026)

3.2.2 Global Acetone Sensor Revenue Market Share by Company (2021-2026)

- 3.3 Global Acetone Sensor Sale Price by Company
- 3.4 Key Manufacturers Acetone Sensor Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Acetone Sensor Product Location Distribution
 - 3.4.2 Players Acetone Sensor Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ACETONE SENSOR BY GEOGRAPHIC REGION

- 4.1 World Historic Acetone Sensor Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Acetone Sensor Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Acetone Sensor Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Acetone Sensor Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Acetone Sensor Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Acetone Sensor Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Acetone Sensor Sales Growth
- 4.4 APAC Acetone Sensor Sales Growth
- 4.5 Europe Acetone Sensor Sales Growth
- 4.6 Middle East & Africa Acetone Sensor Sales Growth

5 AMERICAS

- 5.1 Americas Acetone Sensor Sales by Country
 - 5.1.1 Americas Acetone Sensor Sales by Country (2021-2026)
 - 5.1.2 Americas Acetone Sensor Revenue by Country (2021-2026)
- 5.2 Americas Acetone Sensor Sales by Technology (2021-2026)
- 5.3 Americas Acetone Sensor Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Acetone Sensor Sales by Region

- 6.1.1 APAC Acetone Sensor Sales by Region (2021-2026)
- 6.1.2 APAC Acetone Sensor Revenue by Region (2021-2026)
- 6.2 APAC Acetone Sensor Sales by Technology (2021-2026)
- 6.3 APAC Acetone Sensor Sales by Application (2021-2026)
- 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 Acetone Sensor by Country
 - 7.1.1 Europe Acetone Sensor Sales by Country (2021-2026)
 - 7.1.2 Europe Acetone Sensor Revenue by Country (2021-2026)
- 7.2 Europe Acetone Sensor Sales by Technology (2021-2026)
- 7.3 Europe Acetone Sensor Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Acetone Sensor by Country
 - 8.1.1 Middle East & Africa Acetone Sensor Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Acetone Sensor Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Acetone Sensor Sales by Technology (2021-2026)
- 8.3 Middle East & Africa Acetone Sensor Sales by Application (2021-2026)
- 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 Acetone Sensor
- 10.3 Manufacturing Process Analysis of Acetone Sensor
- 10.4 Industry Chain Structure of Acetone Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Acetone Sensor Distributors
- 11.3 Acetone Sensor Customer

12 WORLD FORECAST REVIEW FOR ACETONE SENSOR BY GEOGRAPHIC REGION

- 12.1 Global Acetone Sensor Market Size Forecast by Region
 - 12.1.1 Global Acetone Sensor Forecast by Region (2027-2032)
 - 12.1.2 Global Acetone Sensor Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Acetone Sensor Forecast by Technology (2027-2032)
- 12.7 Global Acetone Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Figaro Engineering Inc.
 - 13.1.1 Figaro Engineering Inc. Company Information
 - 13.1.2 Figaro Engineering Inc. Acetone Sensor Product Portfolios and Specifications
 - 13.1.3 Figaro Engineering Inc. Acetone Sensor Sales, Revenue, Price and Gross

Margin (2021-2026)

13.1.4 Figaro Engineering Inc. Main Business Overview

13.1.5 Figaro Engineering Inc. Latest Developments

13.2 ION Science Ltd.

13.2.1 ION Science Ltd. Company Information

13.2.2 ION Science Ltd. Acetone Sensor Product Portfolios and Specifications

13.2.3 ION Science Ltd. Acetone Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 ION Science Ltd. Main Business Overview

13.2.5 ION Science Ltd. Latest Developments

13.3 Alphasense / AMETEK MOCON

13.3.1 Alphasense / AMETEK MOCON Company Information

13.3.2 Alphasense / AMETEK MOCON Acetone Sensor Product Portfolios and Specifications

13.3.3 Alphasense / AMETEK MOCON Acetone Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Alphasense / AMETEK MOCON Main Business Overview

13.3.5 Alphasense / AMETEK MOCON Latest Developments

13.4 Membrapor AG

13.4.1 Membrapor AG Company Information

13.4.2 Membrapor AG Acetone Sensor Product Portfolios and Specifications

13.4.3 Membrapor AG Acetone Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Membrapor AG Main Business Overview

13.4.5 Membrapor AG Latest Developments

13.5 Honeywell / RAE Systems

13.5.1 Honeywell / RAE Systems Company Information

13.5.2 Honeywell / RAE Systems Acetone Sensor Product Portfolios and Specifications

13.5.3 Honeywell / RAE Systems Acetone Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Honeywell / RAE Systems Main Business Overview

13.5.5 Honeywell / RAE Systems Latest Developments

13.6 Dräger

13.6.1 Dräger Company Information

13.6.2 Dräger Acetone Sensor Product Portfolios and Specifications

13.6.3 Dräger Acetone Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Dräger Main Business Overview

13.6.5 Dräger Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Acetone Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Acetone Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Metal Oxide Semiconductor Sensors

Table 4. Major Players of Hot-wire Semiconductor Sensors

Table 5. Major Players of PID VOC Sensors

Table 6. Major Players of Electrochemical VOC Sensors

Table 7. Major Players of Infrared / Optical Sensors

Table 8. Major Players of Colorimetric Sensors

Table 9. Major Players of Nanomaterial-based Sensors

Table 10. Major Players of Other / Hybrid Sensors

Table 11. Global Acetone Sensor Sales by Technology (2021-2026) & (K Units)

Table 12. Global Acetone Sensor Sales Market Share by Technology (2021-2026)

Table 13. Global Acetone Sensor Revenue by Technology (2021-2026) & (\$ million)

Table 14. Global Acetone Sensor Revenue Market Share by Technology (2021-2026)

Table 15. Global Acetone Sensor Sale Price by Technology (2021-2026) & (US\$/Unit)

Table 16. Major Players of Acetone-only Detection

Table 17. Major Players of Acetone plus VOC Detection

Table 18. Major Players of Breath Biomarker Detection

Table 19. Global Acetone Sensor Sales by Target Gas Scope (2021-2026) & (K Units)

Table 20. Global Acetone Sensor Sales Market Share by Target Gas Scope (2021-2026)

Table 21. Global Acetone Sensor Revenue by Target Gas Scope (2021-2026) & (\$ million)

Table 22. Global Acetone Sensor Revenue Market Share by Target Gas Scope (2021-2026)

Table 23. Global Acetone Sensor Sale Price by Target Gas Scope (2021-2026) & (US\$/Unit)

Table 24. Major Players of Sub-ppm Range

Table 25. Major Players of Low-ppm Range

Table 26. Major Players of Mid-ppm Range

Table 27. Major Players of High-ppm Range

Table 28. Global Acetone Sensor Sales by Detection Range (2021-2026) & (K Units)

Table 29. Global Acetone Sensor Sales Market Share by Detection Range (2021-2026)

Table 30. Global Acetone Sensor Revenue by Detection Range (2021-2026) & (\$ million)

Table 31. Global Acetone Sensor Revenue Market Share by Detection Range (2021-2026)

Table 32. Global Acetone Sensor Sale Price by Detection Range (2021-2026) & (US\$/Unit)

Table 33. Global Acetone Sensor Sale by Application (2021-2026) & (K Units)

Table 34. Global Acetone Sensor Sale Market Share by Application (2021-2026)

Table 35. Global Acetone Sensor Revenue by Application (2021-2026) & (\$ million)

Table 36. Global Acetone Sensor Revenue Market Share by Application (2021-2026)

Table 37. Global Acetone Sensor Sale Price by Application (2021-2026) & (US\$/Unit)

Table 38. Global Acetone Sensor Sales by Company (2021-2026) & (K Units)

Table 39. Global Acetone Sensor Sales Market Share by Company (2021-2026)

Table 40. Global Acetone Sensor Revenue by Company (2021-2026) & (\$ millions)

Table 41. Global Acetone Sensor Revenue Market Share by Company (2021-2026)

Table 42. Global Acetone Sensor Sale Price by Company (2021-2026) & (US\$/Unit)

Table 43. Key Manufacturers Acetone Sensor Producing Area Distribution and Sales Area

Table 44. Players Acetone Sensor Products Offered

Table 45. Acetone Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 46. New Products and Potential Entrants

Table 47. Market M&A Activity & Strategy

Table 48. Global Acetone Sensor Sales by Geographic Region (2021-2026) & (K Units)

Table 49. Global Acetone Sensor Sales Market Share Geographic Region (2021-2026)

Table 50. Global Acetone Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 51. Global Acetone Sensor Revenue Market Share by Geographic Region (2021-2026)

Table 52. Global Acetone Sensor Sales by Country/Region (2021-2026) & (K Units)

Table 53. Global Acetone Sensor Sales Market Share by Country/Region (2021-2026)

Table 54. Global Acetone Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 55. Global Acetone Sensor Revenue Market Share by Country/Region (2021-2026)

Table 56. Americas Acetone Sensor Sales by Country (2021-2026) & (K Units)

Table 57. Americas Acetone Sensor Sales Market Share by Country (2021-2026)

Table 58. Americas Acetone Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 59. Americas Acetone Sensor Sales by Technology (2021-2026) & (K Units)

Table 60. Americas Acetone Sensor Sales by Application (2021-2026) & (K Units)

Table 61. APAC Acetone Sensor Sales by Region (2021-2026) & (K Units)
Table 62. APAC Acetone Sensor Sales Market Share by Region (2021-2026)
Table 63. APAC Acetone Sensor Revenue by Region (2021-2026) & (\$ millions)
Table 64. APAC Acetone Sensor Sales by Technology (2021-2026) & (K Units)
Table 65. APAC Acetone Sensor Sales by Application (2021-2026) & (K Units)
Table 66. Europe Acetone Sensor Sales by Country (2021-2026) & (K Units)
Table 67. Europe Acetone Sensor Revenue by Country (2021-2026) & (\$ millions)
Table 68. Europe Acetone Sensor Sales by Technology (2021-2026) & (K Units)
Table 69. Europe Acetone Sensor Sales by Application (2021-2026) & (K Units)
Table 70. Middle East & Africa Acetone Sensor Sales by Country (2021-2026) & (K Units)
Table 71. Middle East & Africa Acetone Sensor Revenue Market Share by Country (2021-2026)
Table 72. Middle East & Africa Acetone Sensor Sales by Technology (2021-2026) & (K Units)
Table 73. Middle East & Africa Acetone Sensor Sales by Application (2021-2026) & (K Units)
Table 74. Key Market Drivers & Growth Opportunities of Acetone Sensor
Table 75. Key Market Challenges & Risks of Acetone Sensor
Table 76. Key Industry Trends of Acetone Sensor
Table 77. Acetone Sensor Raw Material
Table 78. Key Suppliers of Raw Materials
Table 79. Acetone Sensor Distributors List
Table 80. Acetone Sensor Customer List
Table 81. Global Acetone Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 82. Global Acetone Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 83. Americas Acetone Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 84. Americas Acetone Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 85. APAC Acetone Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 86. APAC Acetone Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 87. Europe Acetone Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 88. Europe Acetone Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 89. Middle East & Africa Acetone Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 90. Middle East & Africa Acetone Sensor Revenue Forecast by Country

(2027-2032) & (\$ millions)

Table 91. Global Acetone Sensor Sales Forecast by Technology (2027-2032) & (K Units)

Table 92. Global Acetone Sensor Revenue Forecast by Technology (2027-2032) & (\$ millions)

Table 93. Global Acetone Sensor Sales Forecast by Application (2027-2032) & (K Units)

Table 94. Global Acetone Sensor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 95. Figaro Engineering Inc. Basic Information, Acetone Sensor Manufacturing Base, Sales Area and Its Competitors

Table 96. Figaro Engineering Inc. Acetone Sensor Product Portfolios and Specifications

Table 97. Figaro Engineering Inc. Acetone Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Figaro Engineering Inc. Main Business

Table 99. Figaro Engineering Inc. Latest Developments

Table 100. ION Science Ltd. Basic Information, Acetone Sensor Manufacturing Base, Sales Area and Its Competitors

Table 101. ION Science Ltd. Acetone Sensor Product Portfolios and Specifications

Table 102. ION Science Ltd. Acetone Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. ION Science Ltd. Main Business

Table 104. ION Science Ltd. Latest Developments

Table 105. Alphasense / AMETEK MOCON Basic Information, Acetone Sensor Manufacturing Base, Sales Area and Its Competitors

Table 106. Alphasense / AMETEK MOCON Acetone Sensor Product Portfolios and Specifications

Table 107. Alphasense / AMETEK MOCON Acetone Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Alphasense / AMETEK MOCON Main Business

Table 109. Alphasense / AMETEK MOCON Latest Developments

Table 110. Membrapor AG Basic Information, Acetone Sensor Manufacturing Base, Sales Area and Its Competitors

Table 111. Membrapor AG Acetone Sensor Product Portfolios and Specifications

Table 112. Membrapor AG Acetone Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Membrapor AG Main Business

Table 114. Membrapor AG Latest Developments

Table 115. Honeywell / RAE Systems Basic Information, Acetone Sensor Manufacturing

Base, Sales Area and Its Competitors

Table 116. Honeywell / RAE Systems Acetone Sensor Product Portfolios and Specifications

Table 117. Honeywell / RAE Systems Acetone Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Honeywell / RAE Systems Main Business

Table 119. Honeywell / RAE Systems Latest Developments

Table 120. Dräger Basic Information, Acetone Sensor Manufacturing Base, Sales Area and Its Competitors

Table 121. Dräger Acetone Sensor Product Portfolios and Specifications

Table 122. Dräger Acetone Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Dräger Main Business

Table 124. Dräger Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Acetone Sensor
- Figure 2. Acetone Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Acetone Sensor Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Acetone Sensor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Acetone Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Acetone Sensor Sales Market Share by Country/Region (2025)
- Figure 10. Acetone Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Metal Oxide Semiconductor Sensors
- Figure 12. Product Picture of Hot-wire Semiconductor Sensors
- Figure 13. Product Picture of PID VOC Sensors
- Figure 14. Product Picture of Electrochemical VOC Sensors
- Figure 15. Product Picture of Infrared / Optical Sensors
- Figure 16. Product Picture of Colorimetric Sensors
- Figure 17. Product Picture of Nanomaterial-based Sensors
- Figure 18. Product Picture of Other / Hybrid Sensors
- Figure 19. Global Acetone Sensor Sales Market Share by Technology in 2026
- Figure 20. Global Acetone Sensor Revenue Market Share by Technology (2021-2026)
- Figure 21. Product Picture of Acetone-only Detection
- Figure 22. Product Picture of Acetone plus VOC Detection
- Figure 23. Product Picture of Breath Biomarker Detection
- Figure 24. Global Acetone Sensor Sales Market Share by Target Gas Scope in 2026
- Figure 25. Global Acetone Sensor Revenue Market Share by Target Gas Scope (2021-2026)
- Figure 26. Product Picture of Sub-ppm Range
- Figure 27. Product Picture of Low-ppm Range
- Figure 28. Product Picture of Mid-ppm Range
- Figure 29. Product Picture of High-ppm Range
- Figure 30. Global Acetone Sensor Sales Market Share by Detection Range in 2026
- Figure 31. Global Acetone Sensor Revenue Market Share by Detection Range (2021-2026)
- Figure 32. Acetone Sensor Consumed in Industrial VOC Monitoring

Figure 33. Global Acetone Sensor Market: Industrial VOC Monitoring (2021-2026) & (K Units)

Figure 34. Acetone Sensor Consumed in Solvent Leak Detection

Figure 35. Global Acetone Sensor Market: Solvent Leak Detection (2021-2026) & (K Units)

Figure 36. Acetone Sensor Consumed in Occupational Safety Monitoring

Figure 37. Global Acetone Sensor Market: Occupational Safety Monitoring (2021-2026) & (K Units)

Figure 38. Acetone Sensor Consumed in Laboratory Safety Monitoring

Figure 39. Global Acetone Sensor Market: Laboratory Safety Monitoring (2021-2026) & (K Units)

Figure 40. Acetone Sensor Consumed in Cleanroom / Production Environment Monitoring

Figure 41. Global Acetone Sensor Market: Cleanroom / Production Environment Monitoring (2021-2026) & (K Units)

Figure 42. Acetone Sensor Consumed in Breath Acetone Detection

Figure 43. Global Acetone Sensor Market: Breath Acetone Detection (2021-2026) & (K Units)

Figure 44. Acetone Sensor Consumed in Environmental Air Quality Monitoring

Figure 45. Global Acetone Sensor Market: Environmental Air Quality Monitoring (2021-2026) & (K Units)

Figure 46. Acetone Sensor Consumed in Research & Development

Figure 47. Global Acetone Sensor Market: Research & Development (2021-2026) & (K Units)

Figure 48. Global Acetone Sensor Sale Market Share by Application (2025)

Figure 49. Global Acetone Sensor Revenue Market Share by Application in 2025

Figure 50. Acetone Sensor Sales by Company in 2025 (K Units)

Figure 51. Global Acetone Sensor Sales Market Share by Company in 2025

Figure 52. Acetone Sensor Revenue by Company in 2025 (\$ millions)

Figure 53. Global Acetone Sensor Revenue Market Share by Company in 2025

Figure 54. Global Acetone Sensor Sales Market Share by Geographic Region (2021-2026)

Figure 55. Global Acetone Sensor Revenue Market Share by Geographic Region in 2025

Figure 56. Americas Acetone Sensor Sales 2021-2026 (K Units)

Figure 57. Americas Acetone Sensor Revenue 2021-2026 (\$ millions)

Figure 58. APAC Acetone Sensor Sales 2021-2026 (K Units)

Figure 59. APAC Acetone Sensor Revenue 2021-2026 (\$ millions)

Figure 60. Europe Acetone Sensor Sales 2021-2026 (K Units)

- Figure 61. Europe Acetone Sensor Revenue 2021-2026 (\$ millions)
- Figure 62. Middle East & Africa Acetone Sensor Sales 2021-2026 (K Units)
- Figure 63. Middle East & Africa Acetone Sensor Revenue 2021-2026 (\$ millions)
- Figure 64. Americas Acetone Sensor Sales Market Share by Country in 2025
- Figure 65. Americas Acetone Sensor Revenue Market Share by Country (2021-2026)
- Figure 66. Americas Acetone Sensor Sales Market Share by Technology (2021-2026)
- Figure 67. Americas Acetone Sensor Sales Market Share by Application (2021-2026)
- Figure 68. United States Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Canada Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Mexico Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Brazil Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 72. APAC Acetone Sensor Sales Market Share by Region in 2025
- Figure 73. APAC Acetone Sensor Revenue Market Share by Region (2021-2026)
- Figure 74. APAC Acetone Sensor Sales Market Share by Technology (2021-2026)
- Figure 75. APAC Acetone Sensor Sales Market Share by Application (2021-2026)
- Figure 76. China Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Japan Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 78. South Korea Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Southeast Asia Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 80. India Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Australia Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 82. China Taiwan Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Europe Acetone Sensor Sales Market Share by Country in 2025
- Figure 84. Europe Acetone Sensor Revenue Market Share by Country (2021-2026)
- Figure 85. Europe Acetone Sensor Sales Market Share by Technology (2021-2026)
- Figure 86. Europe Acetone Sensor Sales Market Share by Application (2021-2026)
- Figure 87. Germany Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 88. France Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 89. UK Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Italy Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 91. Russia Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 92. Middle East & Africa Acetone Sensor Sales Market Share by Country (2021-2026)
- Figure 93. Middle East & Africa Acetone Sensor Sales Market Share by Technology (2021-2026)
- Figure 94. Middle East & Africa Acetone Sensor Sales Market Share by Application (2021-2026)
- Figure 95. Egypt Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 96. South Africa Acetone Sensor Revenue Growth 2021-2026 (\$ millions)

- Figure 97. Israel Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 98. Turkey Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 99. GCC Countries Acetone Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 100. Manufacturing Cost Structure Analysis of Acetone Sensor in 2026
- Figure 101. Manufacturing Process Analysis of Acetone Sensor
- Figure 102. Industry Chain Structure of Acetone Sensor
- Figure 103. Channels of Distribution
- Figure 104. Global Acetone Sensor Sales Market Forecast by Region (2027-2032)
- Figure 105. Global Acetone Sensor Revenue Market Share Forecast by Region (2027-2032)
- Figure 106. Global Acetone Sensor Sales Market Share Forecast by Technology (2027-2032)
- Figure 107. Global Acetone Sensor Revenue Market Share Forecast by Technology (2027-2032)
- Figure 108. Global Acetone Sensor Sales Market Share Forecast by Application (2027-2032)
- Figure 109. Global Acetone Sensor Revenue Market Share Forecast by Application (2027-2032)

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