

Global Acetone Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Acetone Sensor market size is expected to reach \$ 572 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global Acetone Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Acetone Sensor 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 Acetone Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Acetone Sensor total production and demand, 2021-2032, (K Units)

Global Acetone Sensor total production value, 2021-2032, (USD Million)

Global Acetone Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Acetone Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Acetone Sensor domestic production, consumption, key domestic manufacturers and share

Global Acetone Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Acetone Sensor production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Acetone Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Acetone Sensor 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 Figaro Engineering Inc., ION Science Ltd., Alphasense / AMETEK MOCON, Membrapor AG, Honeywell / RAE Systems, Dräger, 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 Acetone Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Technology, 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 Acetone Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Acetone Sensor Market, 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

Global Acetone Sensor Market, Segmentation by Target Gas Scope:

Acetone-only Detection

Acetone plus VOC Detection

Breath Biomarker Detection

Global Acetone Sensor Market, Segmentation by Detection Range:

Sub-ppm Range

Low-ppm Range

Mid-ppm Range

High-ppm Range

Global Acetone Sensor Market, 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

Companies Profiled:

Figaro Engineering Inc.

ION Science Ltd.

Alphasense / AMETEK MOCON

Membrapor AG

Honeywell / RAE Systems

Dräger

Key Questions Answered:

1. How big is the global Acetone Sensor market?
2. What is the demand of the global Acetone Sensor market?

3. What is the year over year growth of the global Acetone Sensor market?
4. What is the production and production value of the global Acetone Sensor market?
5. Who are the key producers in the global Acetone Sensor market?
6. What are the growth factors driving the market demand?

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