

Global Advanced CO2 Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Advanced CO2 Sensors market size is expected to reach \$ 846 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

A carbon dioxide (CO₂) sensor is a device used to measure the concentration of carbon dioxide gas in the atmosphere. The Advanced CO₂ Sensor is an instrument for the measurement of carbon dioxide gas. The most common principles for CO₂ sensors are infrared gas sensors (NDIR) and chemical gas sensors. Measuring carbon dioxide is important in monitoring indoor air quality, the function of the lungs in the form of a capnograph device, and many industrial processes. NDIR CO₂ sensors detect and monitor CO₂ in the air based on the absorption of infrared (IR) light at a given wavelength. An IR lamp directs light waves through a tube towards a filter. The amount of IR light that passes the filter is measured by an IR light detector. Chemical CO₂ gas sensors with sensitive layers based on polymer- or heteropolysiloxane have the principal advantage of very low energy consumption, and can be reduced in size to fit into microelectronic-based systems. On the downside, short- and long term drift effects as well as a rather low overall lifetime are major obstacles when compared with the NDIR measurement principle. Most CO₂ sensors are fully calibrated prior to shipping from the factory. Over time, the zero point of the sensor needs to be calibrated to maintain the long term stability of the sensor.

Global advanced CO₂ sensors key players include Murata, Amphenol, Sensirion and Cubic Sensor and Instrument. Global top 4 manufacturers hold a share about 36%. The global origins are mainly located in North America, Europe, China, Japan and South Korea. In terms of product, NDIR CO₂ sensor is the largest segment, with a share about 99%. And in terms of application, the largest application is industrial, with a share about 27%.

This report studies the global Advanced CO2 Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Advanced CO2 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 Advanced CO2 Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Advanced CO2 Sensors total production and demand, 2021-2032, (K Units)

Global Advanced CO2 Sensors total production value, 2021-2032, (USD Million)

Global Advanced CO2 Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Advanced CO2 Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Advanced CO2 Sensors domestic production, consumption, key domestic manufacturers and share

Global Advanced CO2 Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Advanced CO2 Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Advanced CO2 Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Advanced CO2 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, Siemens, Vaisala, SenseAir (Asahi Kasei), Murata, Amphenol, Sensirion, Cubic Sensor and Instrument, Trane, E+E

Elektronik, 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 Advanced CO2 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 Advanced CO2 Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Advanced CO2 Sensors Market, Segmentation by Type:

NDIR CO2 Sensor

Chemical CO2 Sensor

Global Advanced CO2 Sensors Market, Segmentation by Application:

Industrial

Building Automation

Air Purifier

Automotive

Petrochemical

Others

Companies Profiled:

Honeywell

Siemens

Vaisala

SenseAir (Asahi Kasei)

Murata

Amphenol

Sensirion

Cubic Sensor and Instrument

Trane

E+E Elektronik

Figaro

Gas Sensing Solutions

Digital Control Systems

Zhengzhou Winsen Electronics

ELT SENSOR

Key Questions Answered:

1. How big is the global Advanced CO2 Sensors market?
2. What is the demand of the global Advanced CO2 Sensors market?
3. What is the year over year growth of the global Advanced CO2 Sensors market?
4. What is the production and production value of the global Advanced CO2 Sensors market?
5. Who are the key producers in the global Advanced CO2 Sensors market?
6. What are the growth factors driving the market demand?

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