

Global Advanced CO2 Sensors Market Growth 2025-2031

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Abstracts

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The global Advanced CO2 Sensors market size is predicted to grow from US\$ 499 million in 2025 to US\$ 735 million in 2031; it is expected to grow at a CAGR of 6.7% from 2025 to 2031.

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%.

LP Information, Inc. (LPI) ' newest research report, the "Advanced CO2 Sensors Industry Forecast" looks at past sales and reviews total world Advanced CO2 Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Advanced CO2 Sensors sales for 2025 through 2031. With Advanced CO2 Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Advanced CO2 Sensors industry.

This Insight Report provides a comprehensive analysis of the global Advanced CO2 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 Advanced CO2 Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Advanced CO2 Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Advanced CO2 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 Advanced CO2 Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Advanced CO2 Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

NDIR CO2 Sensor

Chemical CO2 Sensor

Segmentation by Application:

Industrial

Building Automation

Air Purifier

Automotive

Petrochemical

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

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 Addressed in this Report

What is the 10-year outlook for the global Advanced CO2 Sensors market?

What factors are driving Advanced CO2 Sensors market growth, globally and by region?

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

How do Advanced CO2 Sensors market opportunities vary by end market size?

How does Advanced CO2 Sensors break out by Type, by Application?

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