

# Global Compact CO2 Sensor Module Market Growth 2026-2032

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## Abstracts

The global Compact CO2 Sensor Module market size is predicted to grow from US\$ 270 million in 2025 to US\$ 350 million in 2032; it is expected to grow at a CAGR of 3.3% from 2026 to 2032.

In 2025, global Compact CO2 Sensor Module production reached approximately 6,100 k units?with an average global market price of around US\$ 45 per unit, and a gross profit margin of approximately 10%-30%. Compact CO2 Sensor Modules are small-form-factor sensing units designed to measure carbon dioxide concentration for air quality, ventilation control, safety monitoring, and process applications. Most modules use non-dispersive infrared (NDIR) technology with an IR source, optical chamber, detector, and signal-processing electronics integrated into a miniaturized housing. They provide digital or analog outputs and are used in HVAC systems, air purifiers, smart buildings, greenhouses, incubators, and industrial safety equipment. Key performance metrics include measurement range, accuracy, response time, long-term drift, temperature compensation, and resistance to humidity and contamination. Low power consumption and easy integration are critical for IoT and embedded applications.

The industrial chain of Compact CO2 Sensor Modules includes upstream components such as IR emitters, photodiodes or thermopile detectors, optical filters, optical cavities, PCBs, microcontrollers, MEMS components, housings, connectors, and calibration gases. Midstream manufacturing covers optical assembly, PCB assembly, firmware programming, calibration, temperature compensation tuning, aging tests, and functional verification. Downstream users include HVAC OEMs, building automation integrators, air quality monitor brands, appliance manufacturers, agricultural equipment suppliers, and industrial safety system providers. Services include calibration support, firmware updates, integration guidance, and lifecycle technical support.

United States market for Compact CO2 Sensor Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Compact CO2 Sensor Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Compact CO2 Sensor Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Compact CO2 Sensor Module players cover Figaro, Amphenol, Vaisala, Senseair, Tongdy, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Compact CO2 Sensor Module Industry Forecast" looks at past sales and reviews total world Compact CO2 Sensor Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Compact CO2 Sensor Module sales for 2026 through 2032. With Compact CO2 Sensor Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Compact CO2 Sensor Module industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Compact CO2 Sensor Module 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 Compact CO2 Sensor Module.

This report presents a comprehensive overview, market shares, and growth

opportunities of Compact CO2 Sensor Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

NDIR CO2 Sensor

Chemical CO2 Sensor

Others

Segmentation by Environment:

Indoor

Outdoor

Segmentation by Application:

Automotive

Industrial

Building Automation

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.

Figaro

Amphenol

Vaisala

Senseair

Tongdy

sensirion

E+E Elektronik

Gas Sensing Solutions

Airwave Electronics

Dynament

ELT SENSOR

Winsen

SST Sensing

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Compact CO2 Sensor Module market?

What factors are driving Compact CO2 Sensor Module market growth, globally and by region?

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

How do Compact CO2 Sensor Module market opportunities vary by end market size?  
How does Compact CO2 Sensor Module break out by Type, by Application?

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