

Global Compact CO2 Sensor Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G263A085B0C5EN.html>

Date: February 2026

Pages: 118

Price: US\$ 4,480.00 (Single User License)

ID: G263A085B0C5EN

Abstracts

The global Compact CO2 Sensor Module market size is expected to reach \$ 364 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Compact CO2 Sensor Module production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Compact CO2 Sensor Module total production and demand, 2021-2032, (K Units)

Global Compact CO2 Sensor Module total production value, 2021-2032, (USD Million)

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

Global Compact CO2 Sensor Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Compact CO2 Sensor Module domestic production, consumption, key domestic manufacturers and share

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

Global Compact CO2 Sensor Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Compact CO2 Sensor Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Compact CO2 Sensor Module 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, Amphenol, Vaisala, Senseair, Tongdy, sensirion, E+E Elektronik, Gas Sensing Solutions, Airwave Electronics, Dynament, 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 Compact CO2 Sensor Module 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 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 Compact CO2 Sensor Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Compact CO2 Sensor Module Market, Segmentation by Type:

NDIR CO2 Sensor

Chemical CO2 Sensor

Others

Global Compact CO2 Sensor Module Market, Segmentation by Environment:

Indoor

Outdoor

Global Compact CO2 Sensor Module Market, Segmentation by Application:

Automotive

Industrial

Building Automation

Others

Companies Profiled:

Figaro

Amphenol

Vaisala

Senseair

Tongdy

sensirion

E+E Elektronik

Gas Sensing Solutions

Airwave Electronics

Dynament

ELT SENSOR

Winsen

SST Sensing

Key Questions Answered:

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

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