

Global Miniature CO₂ Sensor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Miniature CO₂ Sensor market size was valued at US\$ 216 million in 2024 and is forecast to a readjusted size of USD 399 million by 2031 with a CAGR of 9.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The Miniature CO₂ Sensor is a compact, low-power, and fast-response device designed to detect carbon dioxide concentrations, typically based on technologies such as non-dispersive infrared (NDIR), photoacoustic spectroscopy (PAS), or other advanced miniature sensing methods. It enables high-sensitivity and high-precision CO₂ monitoring within limited space, making it ideal for use in portable air quality monitors, smart home devices, wearable technologies, mobile healthcare terminals, and indoor air quality monitoring systems.

This report is a detailed and comprehensive analysis for global Miniature CO₂ Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Miniature CO2 Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Miniature CO2 Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Miniature CO2 Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Miniature CO2 Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Miniature CO2 Sensor
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Miniature CO2 Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include City Technology, Alphasense, Senseair, SGX Sensortech, Figaro, Sensirion, Winsen, Gas Sensing Solutions, Cubic, Amphenol Advanced Sensors, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Miniature CO2 Sensor market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

NDIR Sensor

Electrochemical Sensor

Others

Market segment by Application

Consumer Electronics

Smart Home Appliances

Automotive

??Others?

Major players covered

City Technology

Alphasense

Senseair

SGX Sensortech

Figaro

Sensirion

Winsen

Gas Sensing Solutions

Cubic

Amphenol Advanced Sensors

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Miniature CO2 Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Miniature CO2 Sensor, with price, sales quantity, revenue, and global market share of Miniature CO2 Sensor from 2020 to 2025.

Chapter 3, the Miniature CO2 Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Miniature CO2 Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Miniature CO2 Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Miniature CO2 Sensor.

Chapter 14 and 15, to describe Miniature CO2 Sensor sales channel, distributors, customers, research findings and conclusion.

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