

Global CO2 Continuous Emission Monitoring System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CO2 Continuous Emission Monitoring System market size is expected to reach \$ 955 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

A CO2 Continuous Emission Monitoring System (CEMS) is an integrated system that continuously measures, records, and reports carbon dioxide (CO2) and other pollutant emissions from industrial sources like power plants and incinerators, ensuring compliance with environmental regulations and aiding in process optimization. It uses analyzers to measure gas concentrations in the flue gas, data acquisition systems (DAHS) to process and store the data, and requires rigorous quality assurance for accuracy, helping industries meet air quality standards and improve efficiency.

The global production of CO2 continuous emission monitoring systems is projected to reach 7,200 units by 2025, with an average price of US\$95,000 per unit. Gross profit margins typically range from 30% to 50%.

CO2 continuous emission monitoring systems are designed to provide real-time and continuous measurement of carbon dioxide concentration and emissions from stationary sources, and are widely used in high-emission industries. The upstream segment focuses on materials and core components such as gas sensors, infrared analyzers, sampling probes, heated lines, data acquisition units, calibration gases, and industrial control and communication modules, with value concentrated in accuracy, long-term stability, and adaptability to harsh environments. Downstream demand is the most critical part of the value chain. The power generation sector, especially coal-fired and gas-fired plants, represents the largest application area, with strong requirements for uninterrupted operation, data integrity, and seamless connection to environmental

regulatory platforms. Steel, cement, and chemical industries are increasing system deployment under growing pressure from carbon accounting and regulatory compliance. Oil refining and non-ferrous metal industries emphasize resistance to interference under complex operating conditions, while environmental authorities and third-party service providers focus on data authenticity, traceability, and maintenance efficiency. Overall downstream demand is policy-driven, with purchasing decisions prioritizing reliability and service capability over price.

In terms of trends, CO₂ continuous emission monitoring systems are evolving toward higher precision, multi-parameter integration, intelligent diagnostics, and remote operation and maintenance, while being increasingly connected to carbon management platforms and digital factory systems. Key drivers include global carbon neutrality goals, the expansion of carbon trading and emission accounting mechanisms, tightening environmental regulations, and rising demand for refined emission data management by enterprises. Constraints include relatively high upfront and lifecycle costs, reliability challenges in high-temperature and high-dust environments, inconsistent monitoring standards across regions, and limited compliance awareness and investment capacity among smaller emitters.

This report studies the global CO₂ Continuous Emission Monitoring System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global CO₂ Continuous Emission Monitoring System total production and demand, 2021-2032, (Units)

Global CO₂ Continuous Emission Monitoring System total production value, 2021-2032, (USD Million)

Global CO₂ Continuous Emission Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production

site)

Global CO2 Continuous Emission Monitoring System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: CO2 Continuous Emission Monitoring System domestic production, consumption, key domestic manufacturers and share

Global CO2 Continuous Emission Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global CO2 Continuous Emission Monitoring System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global CO2 Continuous Emission Monitoring System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global CO2 Continuous Emission Monitoring System 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 ABB, Siemens, Emerson, Thermo Fisher Scientific, HORIBA, SICK, Yokogawa, Teledyne Monitor Labs, Fuji Electric, ENVEA, 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 CO2 Continuous Emission Monitoring System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 CO2 Continuous Emission Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CO₂ Continuous Emission Monitoring System Market, Segmentation by Type:

Stationary CO₂ Monitoring Systems

Plant Boundary Environmental CO₂ Monitoring Systems

Atmospheric Environmental CO₂ Monitoring Systems

Enclosed Space CO₂ Monitoring Systems

Mobile Source CO₂ Monitoring Systems

Global CO₂ Continuous Emission Monitoring System Market, Segmentation by Sampling Method:

Extractive

In-situ

Diffusion

Heated Extraction

Remote Sensing

Global CO2 Continuous Emission Monitoring System Market, Segmentation by Monitoring Principle:

Non-dispersive Infrared (NDIR)

Laser Spectroscopy

Gas Chromatography (GC)

Electrochemical

Differential Absorption Spectroscopy (DOAS)

Global CO2 Continuous Emission Monitoring System Market, Segmentation by Structure:

Split-type

Integrated type

Portable

Online type

Distributed type

Global CO2 Continuous Emission Monitoring System Market, Segmentation by Application:

Industrial Emission Sources

Ecological Environment Monitoring

Oil and Gas

Scientific Research

Others

Companies Profiled:

ABB

Siemens

Emerson

Thermo Fisher Scientific

HORIBA

SICK

Yokogawa

Teledyne Monitor Labs

Fuji Electric

ENVEA

Servomex

Gasmet Technologies

CEMTEK KVB-Enertec

AMETEK Process Instruments

Focused Photonics

OP SIS

DURAG GROUP

MKS Instruments

California Analytical Instruments

AP2E

NEO Monitors

Key Questions Answered:

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

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