

Global NDIR Sensors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global NDIR Sensors market size was valued at USD 814.8 million in 2023 and is forecast to a readjusted size of USD 1334.4 million by 2030 with a CAGR of 7.3% during review period.

NDIR gas sensors use the infrared absorption properties of gas molecules (e.g., CO₂) to calculate their concentration. Therefore, the NDIR gas sensor is equipped with an infrared light source that emits infrared rays and an infrared sensor that detects infrared rays. The infrared light is directed at the gas in the measuring tube and part of the light is absorbed by the gas molecules to be measured. Subsequently, the rest of the infrared light hits the filter and reaches the infrared detector. Ideally, only the gas to be measured absorbs light of the corresponding wavelength. However, since the gas mixture contains a variety of gases, the absorption regions may overlap, thus enhancing cross sensitivity. The interference part must either be tested for compensation (to avoid false measurements) or avoided by clever selection of spectral ranges. With the NDIR sensor, more than 100 different gases can be detected from ppm to percentage. In many applications, this is the preferred method because the measurement method is non-contact and non-consuming.

Global key players of NDIR Sensors include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments and ELT SENSOR. Top five players occupy for a share over 18%. North America is the largest market, with a share about 36%, followed by Europe and Asia-Pacific. In terms of product type, NDIR CO₂ Sensors is the largest segment, with a share over 57%. In terms of application, Residential and Commercial Security is the largest market, with a share about 50%.

The Global Info Research report includes an overview of the development of the NDIR

Sensors industry chain, the market status of Industrial Safety (NDIR CO2 Sensors, NDIR Methane (CH4) Gas Sensors), Environmental Protection Industry (NDIR CO2 Sensors, NDIR Methane (CH4) Gas Sensors), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of NDIR Sensors.

Regionally, the report analyzes the NDIR Sensors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global NDIR Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the NDIR Sensors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the NDIR Sensors industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., NDIR CO2 Sensors, NDIR Methane (CH4) Gas Sensors).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the NDIR Sensors market.

Regional Analysis: The report involves examining the NDIR Sensors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the NDIR Sensors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to NDIR Sensors:

Company Analysis: Report covers individual NDIR Sensors manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards NDIR Sensors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial Safety, Environmental Protection Industry).

Technology Analysis: Report covers specific technologies relevant to NDIR Sensors. It assesses the current state, advancements, and potential future developments in NDIR Sensors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the NDIR Sensors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

NDIR Sensors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

NDIR CO₂ Sensors

NDIR Methane (CH₄) Gas Sensors

NDIR CO Sensors

NDIR Propane Gas Sensors

NDIR Refrigerant Gases Sensors

NDIR Ethylene Gases Sensors

NDIR SF6 Infrared Sensors

Others

Market segment by Application

Industrial Safety

Environmental Protection Industry

Medical Industry

Residential and Commercial Security

Power Industry

Automobile Industry

Research Institutions

Others

Major players covered

Amphenol Advanced Sensors

Senseair (Asahi Kasei Microdevices)

Murata

Sensirion

MKS Instruments

Vaisala

Teledyne API

Honeywell

ELT SENSOR

E+E

Dwyer Instruments

Trane

Micro-Hybrid

Edinburgh Instruments

Alphasense

Cubic Sensor and Instrument Co.,Ltd

Nano Environmental Technology S.r.l. (N.E.T.)

Super Systems

ORIENTAL SYSTEM TECHNOLOGY INC.

smartGAS Mikrosensorik GmbH

SST Sensing Ltd

Winsen

Suzhou Promisense Co., Ltd.

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 NDIR Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NDIR Sensors, with price, sales, revenue and global market share of NDIR Sensors from 2019 to 2024.

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

Chapter 4, the NDIR Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and NDIR Sensors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 NDIR Sensors.

Chapter 14 and 15, to describe NDIR Sensors sales channel, distributors, customers, research findings and conclusion.

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