

Global NDIR Sensors 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 NDIR Sensors market size was valued at US\$ 952 million in 2024 and is forecast to a readjusted size of USD 1554 million by 2031 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.

The key players of Advanced NDIR Sensors include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, and MKS Instruments. The top five manufacturers hold approximately 19% of the global market share, with Amphenol Advanced Sensors being the largest manufacturer with approximately 5% of the market share.

North America, Europe and Asia-Pacific are the world's major production regions, with a combined market share of over 90%. North America is the world's largest Advanced NDIR Sensors production region, with nearly 33% market share, followed by Europe

and Asia-Pacific, with 27% and 30% respectively.

This report is a detailed and comprehensive analysis for global NDIR Sensors 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 NDIR Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global NDIR Sensors 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 NDIR Sensors 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 NDIR Sensors 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 NDIR Sensors

To forecast future growth in each product and end-use market

To forecast future factors affecting the marketplace

This report profiles key players in the global NDIR Sensors 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 Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments, Vaisala, Teledyne API, Honeywell, ELT SENSOR, E+E, etc.

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

Market Segmentation

NDIR Sensors 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 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

Nano Environmental Technology (N.E.T.)

Super Systems

Figaro Engineering

ORIENTAL SYSTEM TECHNOLOGY

smartGAS Mikrosensorik

SST Sensing

Winsen

Suzhou Promisense

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 quantity, revenue, and global market share of NDIR Sensors from 2020 to 2025.

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 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 NDIR Sensors 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 NDIR Sensors.

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

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