

Global NDIR (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas Sensors market size was valued at USD 877.7 million in 2023 and is forecast to a readjusted size of USD 1452.8 million by 2030 with a CAGR of 7.5% during review period.

A nondispersive infrared sensor (or NDIR sensor) is a simple spectroscopic sensor often used as a gas detector. It is non-dispersive in the fact that no dispersive element (e.g a prism or diffraction grating as is often present in other spectrometers) is used to separate out (like a monochromator) the broadband light into a narrow spectrum suitable for gas sensing.

The main manufacturers of Global NDIR (Non-Dispersive Infrared) Gas Sensors include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, etc. These top three manufacturers hold a market share about 10%. North America is the major producing region in the world, followed by Japan and Europe. In terms of application, the product is most widely used in residential and commercial security, followed by industrial safety.

The Global Info Research report includes an overview of the development of the NDIR (Non-Dispersive Infrared) Gas Sensors industry chain, the market status of Industrial Safety (NDIR CO₂ Sensors, NDIR Methane (CH₄) Gas Sensors), Environmental Protection (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 (Non-Dispersive Infrared) Gas Sensors.

Regionally, the report analyzes the NDIR (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the NDIR (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas Sensors market.

Regional Analysis: The report involves examining the NDIR (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas Sensors:

Company Analysis: Report covers individual NDIR (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas Sensors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial Safety, Environmental Protection).

Technology Analysis: Report covers specific technologies relevant to NDIR (Non-Dispersive Infrared) Gas Sensors. It assesses the current state, advancements, and potential future developments in NDIR (Non-Dispersive Infrared) Gas Sensors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the NDIR (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas 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

Market segment by Application

Industrial Safety

Environmental Protection

Medical

Residential and Commercial

Power

Automobile

Research Institutions

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 S.r.l. (N.E.T.)

Super Systems

ORIENTAL SYSTEM TECHNOLOGY INC.

smartGAS Mikrosensorik GmbH

SST Sensing

Winsen

Suzhou Promisense

Figaro Engineering

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 (Non-Dispersive Infrared) Gas Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NDIR (Non-Dispersive Infrared) Gas Sensors, with price, sales, revenue and global market share of NDIR (Non-Dispersive Infrared) Gas Sensors from 2019 to 2024.

Chapter 3, the NDIR (Non-Dispersive Infrared) Gas Sensors competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the NDIR (Non-Dispersive Infrared) Gas 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 (Non-Dispersive Infrared) Gas 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 (Non-

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Chapter 14 and 15, to describe NDIR (Non-Dispersive Infrared) Gas Sensors sales channel, distributors, customers, research findings and conclusion.

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