

# Global Non Dispersive Infrared NDIR Sensor Market Research Report 2023(Status and Outlook)

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## Abstracts

### Report Overview

Infrared (IR) techniques are very popular in gas detection technology since many gases have characteristic vibration/rotation absorption spectra with narrow, non-overlapping bands in the infrared spectrum between 2  $\mu$ m and 20  $\mu$ m. Key to this process is the selection of the correct absorption wavelength for measurement. The wavelengths from the optical source can be separated spatially using prisms or diffraction gratings. This is known as dispersive separation. Alternatively, an optical filter can be used which allows only transmission of the required wavelength. This is a non-dispersive infrared (NDIR) approach. It has been shown (Jacquinot P. 1954 J. Opt. Soc. Amer. 44, 761-765) that optical filters are typically 1000 times more efficient than gratings and up to 100,000 times more efficient than prisms at separating IR wavelengths, so NDIR gas sensors offer real performance advantages over dispersive systems and are the systems of choice.

At present, advanced non-dispersive infrared (NDIR) sensor technology is mainly in the hands of Japanese and European and American companies, and the industry has a strong technology monopoly. Global leading companies include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments, Vaisala, Teledyne API, Honeywell etc. The manufacturing companies in Europe, America and Japan have deep accumulation of technology, strong comprehensive strength, and obvious advantages in core patents and core technologies. They occupy the high-end market of the industry and occupy most of the global non-dispersive infrared (NDIR) sensor market share. China has made certain technological breakthroughs in the field of non-dispersive infrared (NDIR) sensors. With the support of national policies for the optical sensor industry, the development of optical sensors has been vigorously promoted.

Bosson Research's latest report provides a deep insight into the global Non Dispersive

Infrared NDIR Sensor market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Non Dispersive Infrared NDIR Sensor Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Non Dispersive Infrared NDIR Sensor market in any manner.

**Global Non Dispersive Infrared NDIR Sensor Market: Market Segmentation Analysis**

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

**Key Company**

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 Ltd Company  
Figaro Engineering Inc  
Winsen  
Suzhou Promisense Co., Ltd.

#### Market Segmentation (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 Segmentation (by Application)

Food Cans  
Beverage Cans  
Other Cans  
Bottle Cap  
Others

#### Geographic Segmentation

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

#### Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the Non Dispersive Infrared NDIR Sensor Market  
Overview of the regional outlook of the Non Dispersive Infrared NDIR Sensor Market:

#### Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

#### Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Non Dispersive Infrared NDIR Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

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