

Global NDIR Gas Sensor Modules Market Growth 2024-2030

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Abstracts

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NDIR (Non-Dispersive Infrared) Gas Sensor Modules are devices used for the detection of gases in the air. They are based on the principle of infrared absorption spectroscopy.

Here's how they typically work:

Infrared Light Source: NDIR sensors have an infrared light source that emits light in the infrared spectrum. This light passes through or reflects off a sample chamber containing the gas to be detected.

Gas Absorption: The gas molecules in the sample chamber absorb specific wavelengths of infrared light that are characteristic of the molecular structure of the gas.

Detector: The sensor has a detector that measures the intensity of the infrared light after it passes through the sample chamber. The amount of light absorbed by the gas is proportional to the concentration of the gas in the chamber.

Analysis: By analyzing the difference in the intensity of the emitted and detected light, the sensor can determine the concentration of the gas in the sample chamber.

NDIR gas sensor modules are widely used for detecting various gases such as carbon dioxide (CO₂), carbon monoxide (CO), methane (CH₄), and other hydrocarbons. They are commonly employed in applications such as indoor air quality monitoring, industrial safety, automotive emissions monitoring, and HVAC systems.

The global NDIR Gas Sensor Modules market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "NDIR Gas Sensor Modules Industry Forecast" looks at past sales and reviews total world NDIR Gas Sensor Modules sales in 2023, providing a comprehensive analysis by region and market sector of projected NDIR Gas Sensor Modules sales for 2024 through 2030. With NDIR Gas Sensor Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world NDIR Gas Sensor Modules industry.

This Insight Report provides a comprehensive analysis of the global NDIR Gas Sensor Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on NDIR Gas Sensor Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global NDIR Gas Sensor Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NDIR Gas Sensor Modules and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global NDIR Gas Sensor Modules.

United States market for NDIR Gas Sensor Modules is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for NDIR Gas Sensor Modules is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for NDIR Gas Sensor Modules is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key NDIR Gas Sensor Modules players cover Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of NDIR Gas Sensor Modules market by product type, application, key manufacturers and key regions and countries.

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

Segmentation by Application:

Industrial Safety

Environmental Protection Industry

Medical Industry

Residential and Commercial Security

Power Industry

Automobile Industry

Research Institutions

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global NDIR Gas Sensor Modules market?

What factors are driving NDIR Gas Sensor Modules market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do NDIR Gas Sensor Modules market opportunities vary by end market size?

How does NDIR Gas Sensor Modules break out by Type, by Application?

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