

# Global Nondispersive Infrared Sensors Market Growth 2023-2029

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## Abstracts

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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.

LPI (LP Information)' newest research report, the “Nondispersive Infrared Sensors Industry Forecast” looks at past sales and reviews total world Nondispersive Infrared Sensors sales in 2022, providing a comprehensive analysis by region and market sector of projected Nondispersive Infrared Sensors sales for 2023 through 2029. With Nondispersive Infrared Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nondispersive Infrared Sensors industry.

This Insight Report provides a comprehensive analysis of the global Nondispersive Infrared Sensors 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 Nondispersive Infrared Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nondispersive Infrared Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nondispersive Infrared Sensors 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 Nondispersive Infrared Sensors.

The global Nondispersive Infrared Sensors market size is projected to grow from US\$ 834.3 million in 2022 to US\$ 1438.4 million in 2029; it is expected to grow at a CAGR of 1438.4 from 2023 to 2029.

Global key players of NDIR Sensors include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments and ELT SENSOR, etc. Top five players occupy for a share about 16%. North America is the largest market, with a share about 31%, followed by Europe and Asia-Pacific. In terms of product, NDIR CO<sub>2</sub> Sensors is the largest segment, with a share over 58%. In terms of application, Residential and Commercial Security is the largest market, with a share over 51%.

This report presents a comprehensive overview, market shares, and growth opportunities of Nondispersive Infrared Sensors market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

NDIR CO<sub>2</sub> Sensors

NDIR Methane (CH<sub>4</sub>) Gas Sensor

NDIR CO Sensors

NDIR Propane Gas Sensors

NDIR Refrigerant Gases Sensors

NDIR Ethylene Gases Sensors

NDIR SF6 Infrared Sensor

### Segmentation by application

Industrial

Healthcare

Automotive

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 analyzing the company's coverage, product portfolio, its market penetration.

Analog Devices, Inc

Edinburgh Instruments

AKM (Asahi Kasei Microdevices)

Global Detection Systems

Vaisala

Figaro Engineering Inc

ELT SENSOR

Senseair

Texas Instruments

MKS Instruments

Dwyer Instruments

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

Teledyne API

Amphenol (Telaire)

SGX Sensortech

SST Sensing Ltd Company

Honeywell

E+E

Super Systems

Micro-Hybrid

Murata

Alphasense

Sensirion

Gas Sensing Solutions

Trane

Winfoss Seeker Technology

Cubic Sensor and Instrument

Zhengzhou Winsensor

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Nondispersive Infrared Sensors market?

What factors are driving Nondispersive Infrared Sensors market growth, globally and by region?

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

How do Nondispersive Infrared Sensors market opportunities vary by end market size?

How does Nondispersive Infrared Sensors break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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