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Global NDIR-type Gas Sensor Market Growth 2026-2032

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Abstracts

The global NDIR-type Gas Sensor market size is predicted to grow from US$ 827 million in 2025 to US$ 1386 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

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.

R1: NDIR sensor products are mainly used in environmental monitoring, industrial safety, medical equipment, residential and commercial safety, power industry, scientific research and other fields. Although the industry is developing well at present, if the enterprise cannot carry out technological research and development upgrades in a timely manner, effectively expand the market, and grasp the opportunities for industry development, it will affect the market influence and operating performance of the enterprise to a certain extent. There is a risk that the company's technology and sales will lag behind due to the rapid development of industry technology.

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R2: The core technology and core technicians of an enterprise are an important part of the company's core competitiveness. If the research and development results of the enterprise are compromised or infringed, it will have a negative impact on the production and operation of the enterprise. If the core technicians leave the company or privately disclose the company's technical secrets, it may still have a certain impact on the company.

R3: The market is highly fragmented and competition among enterprises is fierce. If the enterprise cannot further enhance production, R&D and sales capabilities, improve the company's management level and adjust the strategic layout in a timely manner, the business and profitability will be affected to a certain extent.

LP Information, Inc. (LPI) ' newest research report, the ?NDIR-type Gas Sensor Industry Forecast? looks at past sales and reviews total world NDIR-type Gas Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected NDIR-type Gas Sensor sales for 2026 through 2032. With NDIR-type Gas Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world NDIR-type Gas Sensor industry.

This Insight Report provides a comprehensive analysis of the global NDIR-type Gas Sensor 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-type Gas Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global NDIR-type Gas Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NDIR-type Gas Sensor 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-type Gas Sensor.

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

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Segmentation by Type:

- NDIR CO2 Sensors
- NDIR CH4 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

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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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 Co.,Ltd

Key Questions Addressed in this Report

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

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

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

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

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

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