

# Global Infrared Gas Sensor Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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## Abstracts

Infrared Gas Sensors utilize only part of the infrared spectrum, corresponding to wavelengths which are absorbed by the gas to be detected. The optical bandwidth of a laser source is sufficiently narrow for it to be used directly, but with wideband sources such as thermal sources or even LED's some additional wavelength selection in the optical path is required to achieve usable sensitivity and selectivity. The optical bandwidth of a sensor should ideally be matched to the absorption band of the gas (matching system bandwidth to the information carrying bandwidth) which is typically in the tens or low hundreds of nanometers.

Wavelength selection can be achieved using prisms or diffraction gratings, these being termed dispersive systems since they separate wavelengths spatially. Alternatively, a non-dispersive element may be used such as a multilayer thin film filter.

Nowadays commercial single gas IR gas sensors, as opposed to analytical instruments, are all based on NDIR techniques.

According to APO Research, The global Infrared Gas Sensor market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

Europe is the largest Infrared Gas Sensor market with about 43% market share. North America is follower, accounting for about 23% market share.

The key players are Alphasense, CityTechnology Ltd, Dräger, GSS, GE, Senseair, Dynament, SGX Sensortech (IS), SmartGAS, Mipex, Clairair, Heimann, M-U-T,

Edinburgh Sensors, Hanwei, NE Sensor etc. Top 3 companies occupied about 33% market share.

This report presents an overview of global market for Infrared Gas Sensor, sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Infrared Gas Sensor, also provides the sales of main regions and countries. Of the upcoming market potential for Infrared Gas Sensor, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Infrared Gas Sensor sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Infrared Gas Sensor market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Infrared Gas Sensor sales, projected growth trends, production technology, application and end-user industry.

Descriptive company profiles of the major global players, including Alphasense, CityTechnology Ltd, Drager, GSS, GE, Senseair, Dynament, SGX Sensortech (IS) and SmartGAS, etc.

#### Infrared Gas Sensor segment by Company

Alphasense

CityTechnology Ltd

Drager

GSS

GE

Senseair

Dynament

SGX Sensortech (IS)

SmartGAS

Mipex

Clairair

Heimann

M-U-T

Edinburgh Sensors

Hanwei

NE Sensor

#### Infrared Gas Sensor segment by Type

CO2

Combustible Gases

Others

#### Infrared Gas Sensor segment by Application

Industrial

Residential

## Infrared Gas Sensor segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Study Objectives

1. To analyze and research the global Infrared Gas Sensor status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Infrared Gas Sensor market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Infrared Gas Sensor significant trends, drivers, influence factors in global and regions.
6. To analyze Infrared Gas Sensor competitive developments such as expansions,

agreements, new product launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Infrared Gas Sensor market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Infrared Gas Sensor and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Infrared Gas Sensor.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

### Chapter Outline

Chapter 1: Provides an overview of the Infrared Gas Sensor market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global

Infrared Gas Sensor industry.

Chapter 3: Detailed analysis of Infrared Gas Sensor manufacturers competitive landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by 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 6: Sales and value of Infrared Gas Sensor in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Infrared Gas Sensor in country level. It provides sigma data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights.

Chapter 10: Concluding Insights.

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