

# **Global Infrared Gas Sensor Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030**

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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, Drager, GSS, GE, Senseair, Dynamet, SGX Sensortech (IS), SmartGAS, Mipex, Clairair, Heimann, M-U-T,

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

In terms of production side, this report researches the Infrared Gas Sensor production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Infrared Gas Sensor by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Infrared Gas Sensor, capacity, output, 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 consumption 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 status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, 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 market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze 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 volume 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, production value, capacity, 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 market competition landscape. Including Infrared Gas Sensor manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, 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: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Infrared Gas Sensor by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of Infrared Gas Sensor in regional level and country level. It 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 production of each country in the world.

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

## Chapter 10: Concluding Insights of the report.



## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global Infrared Gas Sensor Production Value Estimates and Forecasts (2019-2030)
  - 1.2.2 Global Infrared Gas Sensor Production Capacity Estimates and Forecasts (2019-2030)
  - 1.2.3 Global Infrared Gas Sensor Production Estimates and Forecasts (2019-2030)
  - 1.2.4 Global Infrared Gas Sensor Market Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

### 2 GLOBAL INFRARED GAS SENSOR MARKET DYNAMICS

- 2.1 Infrared Gas Sensor Industry Trends
- 2.2 Infrared Gas Sensor Industry Drivers
- 2.3 Infrared Gas Sensor Industry Opportunities and Challenges
- 2.4 Infrared Gas Sensor Industry Restraints

### 3 INFRARED GAS SENSOR MARKET BY MANUFACTURERS

- 3.1 Global Infrared Gas Sensor Production Value by Manufacturers (2019-2024)
- 3.2 Global Infrared Gas Sensor Production by Manufacturers (2019-2024)
- 3.3 Global Infrared Gas Sensor Average Price by Manufacturers (2019-2024)
- 3.4 Global Infrared Gas Sensor Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Infrared Gas Sensor Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global Infrared Gas Sensor Manufacturers, Product Type & Application
- 3.7 Global Infrared Gas Sensor Manufacturers Commercialization Time
- 3.8 Market Competitive Analysis
  - 3.8.1 Global Infrared Gas Sensor Market CR5 and HHI
  - 3.8.2 Global Top 5 and 10 Infrared Gas Sensor Players Market Share by Production Value in 2023
  - 3.8.3 2023 Infrared Gas Sensor Tier 1, Tier 2, and Tier

### 4 INFRARED GAS SENSOR MARKET BY TYPE

#### 4.1 Infrared Gas Sensor Type Introduction

##### 4.1.1 CO2

##### 4.1.2 Combustible Gases

##### 4.1.3 Others

#### 4.2 Global Infrared Gas Sensor Production by Type

##### 4.2.1 Global Infrared Gas Sensor Production by Type (2019 VS 2023 VS 2030)

##### 4.2.2 Global Infrared Gas Sensor Production by Type (2019-2030)

##### 4.2.3 Global Infrared Gas Sensor Production Market Share by Type (2019-2030)

#### 4.3 Global Infrared Gas Sensor Production Value by Type

##### 4.3.1 Global Infrared Gas Sensor Production Value by Type (2019 VS 2023 VS 2030)

##### 4.3.2 Global Infrared Gas Sensor Production Value by Type (2019-2030)

##### 4.3.3 Global Infrared Gas Sensor Production Value Market Share by Type (2019-2030)

### 5 INFRARED GAS SENSOR MARKET BY APPLICATION

#### 5.1 Infrared Gas Sensor Application Introduction

##### 5.1.1 Industrial

##### 5.1.2 Residential

#### 5.2 Global Infrared Gas Sensor Production by Application

##### 5.2.1 Global Infrared Gas Sensor Production by Application (2019 VS 2023 VS 2030)

##### 5.2.2 Global Infrared Gas Sensor Production by Application (2019-2030)

##### 5.2.3 Global Infrared Gas Sensor Production Market Share by Application (2019-2030)

#### 5.3 Global Infrared Gas Sensor Production Value by Application

##### 5.3.1 Global Infrared Gas Sensor Production Value by Application (2019 VS 2023 VS 2030)

##### 5.3.2 Global Infrared Gas Sensor Production Value by Application (2019-2030)

##### 5.3.3 Global Infrared Gas Sensor Production Value Market Share by Application (2019-2030)

### 6 COMPANY PROFILES

#### 6.1 Alphasense

##### 6.1.1 Alphasense Company Information

##### 6.1.2 Alphasense Business Overview

##### 6.1.3 Alphasense Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)

##### 6.1.4 Alphasense Infrared Gas Sensor Product Portfolio

##### 6.1.5 Alphasense Recent Developments

## 6.2 CityTechnology Ltd

### 6.2.1 CityTechnology Ltd Company Information

### 6.2.2 CityTechnology Ltd Business Overview

### 6.2.3 CityTechnology Ltd Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)

### 6.2.4 CityTechnology Ltd Infrared Gas Sensor Product Portfolio

### 6.2.5 CityTechnology Ltd Recent Developments

## 6.3 Drager

### 6.3.1 Drager Company Information

### 6.3.2 Drager Business Overview

### 6.3.3 Drager Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)

### 6.3.4 Drager Infrared Gas Sensor Product Portfolio

### 6.3.5 Drager Recent Developments

## 6.4 GSS

### 6.4.1 GSS Company Information

### 6.4.2 GSS Business Overview

### 6.4.3 GSS Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)

### 6.4.4 GSS Infrared Gas Sensor Product Portfolio

### 6.4.5 GSS Recent Developments

## 6.5 GE

### 6.5.1 GE Company Information

### 6.5.2 GE Business Overview

### 6.5.3 GE Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)

### 6.5.4 GE Infrared Gas Sensor Product Portfolio

### 6.5.5 GE Recent Developments

## 6.6 Senseair

### 6.6.1 Senseair Company Information

### 6.6.2 Senseair Business Overview

### 6.6.3 Senseair Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)

### 6.6.4 Senseair Infrared Gas Sensor Product Portfolio

### 6.6.5 Senseair Recent Developments

## 6.7 Dynament

### 6.7.1 Dynament Company Information

### 6.7.2 Dynament Business Overview

### 6.7.3 Dynament Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)

### 6.7.4 Dynament Infrared Gas Sensor Product Portfolio

### 6.7.5 Dynament Recent Developments

## 6.8 SGX Sensortech (IS)

- 6.8.1 SGX Sensortech (IS) Company Information
- 6.8.2 SGX Sensortech (IS) Business Overview
- 6.8.3 SGX Sensortech (IS) Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
- 6.8.4 SGX Sensortech (IS) Infrared Gas Sensor Product Portfolio
- 6.8.5 SGX Sensortech (IS) Recent Developments
- 6.9 SmartGAS
  - 6.9.1 SmartGAS Company Information
  - 6.9.2 SmartGAS Business Overview
  - 6.9.3 SmartGAS Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
  - 6.9.4 SmartGAS Infrared Gas Sensor Product Portfolio
  - 6.9.5 SmartGAS Recent Developments
- 6.10 Mipex
  - 6.10.1 Mipex Company Information
  - 6.10.2 Mipex Business Overview
  - 6.10.3 Mipex Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
  - 6.10.4 Mipex Infrared Gas Sensor Product Portfolio
  - 6.10.5 Mipex Recent Developments
- 6.11 Clairair
  - 6.11.1 Clairair Company Information
  - 6.11.2 Clairair Business Overview
  - 6.11.3 Clairair Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
  - 6.11.4 Clairair Infrared Gas Sensor Product Portfolio
  - 6.11.5 Clairair Recent Developments
- 6.12 Heimann
  - 6.12.1 Heimann Company Information
  - 6.12.2 Heimann Business Overview
  - 6.12.3 Heimann Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
  - 6.12.4 Heimann Infrared Gas Sensor Product Portfolio
  - 6.12.5 Heimann Recent Developments
- 6.13 M-U-T
  - 6.13.1 M-U-T Company Information
  - 6.13.2 M-U-T Business Overview
  - 6.13.3 M-U-T Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
  - 6.13.4 M-U-T Infrared Gas Sensor Product Portfolio
  - 6.13.5 M-U-T Recent Developments
- 6.14 Edinburgh Sensors

- 6.14.1 Edinburgh Sensors Company Information
- 6.14.2 Edinburgh Sensors Business Overview
- 6.14.3 Edinburgh Sensors Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
- 6.14.4 Edinburgh Sensors Infrared Gas Sensor Product Portfolio
- 6.14.5 Edinburgh Sensors Recent Developments
- 6.15 Hanwei
  - 6.15.1 Hanwei Company Information
  - 6.15.2 Hanwei Business Overview
  - 6.15.3 Hanwei Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
  - 6.15.4 Hanwei Infrared Gas Sensor Product Portfolio
  - 6.15.5 Hanwei Recent Developments
- 6.16 NE Sensor
  - 6.16.1 NE Sensor Company Information
  - 6.16.2 NE Sensor Business Overview
  - 6.16.3 NE Sensor Infrared Gas Sensor Production, Value and Gross Margin (2019-2024)
  - 6.16.4 NE Sensor Infrared Gas Sensor Product Portfolio
  - 6.16.5 NE Sensor Recent Developments

## **7 GLOBAL INFRARED GAS SENSOR PRODUCTION BY REGION**

- 7.1 Global Infrared Gas Sensor Production by Region: 2019 VS 2023 VS 2030
- 7.2 Global Infrared Gas Sensor Production by Region (2019-2030)
  - 7.2.1 Global Infrared Gas Sensor Production by Region: 2019-2024
  - 7.2.2 Global Infrared Gas Sensor Production by Region (2025-2030)
- 7.3 Global Infrared Gas Sensor Production by Region: 2019 VS 2023 VS 2030
- 7.4 Global Infrared Gas Sensor Production Value by Region (2019-2030)
  - 7.4.1 Global Infrared Gas Sensor Production Value by Region: 2019-2024
  - 7.4.2 Global Infrared Gas Sensor Production Value by Region (2025-2030)
- 7.5 Global Infrared Gas Sensor Market Price Analysis by Region (2019-2024)
- 7.6 Regional Production Value Trends (2019-2030)
  - 7.6.1 North America Infrared Gas Sensor Production Value (2019-2030)
  - 7.6.2 Europe Infrared Gas Sensor Production Value (2019-2030)
  - 7.6.3 Asia-Pacific Infrared Gas Sensor Production Value (2019-2030)
  - 7.6.4 Latin America Infrared Gas Sensor Production Value (2019-2030)
  - 7.6.5 Middle East & Africa Infrared Gas Sensor Production Value (2019-2030)

## **8 GLOBAL INFRARED GAS SENSOR CONSUMPTION BY REGION**

## 8.1 Global Infrared Gas Sensor Consumption by Region: 2019 VS 2023 VS 2030

### 8.2 Global Infrared Gas Sensor Consumption by Region (2019-2030)

#### 8.2.1 Global Infrared Gas Sensor Consumption by Region (2019-2024)

#### 8.2.2 Global Infrared Gas Sensor Consumption by Region (2025-2030)

### 8.3 North America

#### 8.3.1 North America Infrared Gas Sensor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

#### 8.3.2 North America Infrared Gas Sensor Consumption by Country (2019-2030)

##### 8.3.3 U.S.

##### 8.3.4 Canada

### 8.4 Europe

#### 8.4.1 Europe Infrared Gas Sensor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

#### 8.4.2 Europe Infrared Gas Sensor Consumption by Country (2019-2030)

##### 8.4.3 Germany

##### 8.4.4 France

##### 8.4.5 U.K.

##### 8.4.6 Italy

##### 8.4.7 Netherlands

### 8.5 Asia Pacific

#### 8.5.1 Asia Pacific Infrared Gas Sensor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

#### 8.5.2 Asia Pacific Infrared Gas Sensor Consumption by Country (2019-2030)

##### 8.5.3 China

##### 8.5.4 Japan

##### 8.5.5 South Korea

##### 8.5.6 Southeast Asia

##### 8.5.7 India

##### 8.5.8 Australia

### 8.6 LAMEA

#### 8.6.1 LAMEA Infrared Gas Sensor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

#### 8.6.2 LAMEA Infrared Gas Sensor Consumption by Country (2019-2030)

##### 8.6.3 Mexico

##### 8.6.4 Brazil

##### 8.6.5 Turkey

##### 8.6.6 GCC Countries

## **9 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

### **9.1 Infrared Gas Sensor Value Chain Analysis**

#### **9.1.1 Infrared Gas Sensor Key Raw Materials**

#### **9.1.2 Raw Materials Key Suppliers**

#### **9.1.3 Manufacturing Cost Structure**

#### **9.1.4 Infrared Gas Sensor Production Mode & Process**

### **9.2 Infrared Gas Sensor Sales Channels Analysis**

#### **9.2.1 Direct Comparison with Distribution Share**

#### **9.2.2 Infrared Gas Sensor Distributors**

#### **9.2.3 Infrared Gas Sensor Customers**

## **10 CONCLUDING INSIGHTS**

## **11 APPENDIX**

### **11.1 Reasons for Doing This Study**

### **11.2 Research Methodology**

### **11.3 Research Process**

### **11.4 Authors List of This Report**

### **11.5 Data Source**

#### **11.5.1 Secondary Sources**

#### **11.5.2 Primary Sources**

### **11.6 Disclaimer**



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