

Global Infrared Gas Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared Gas Sensor market size is expected to reach \$ 690 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

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.

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, 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 studies the global Infrared Gas Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Gas Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Infrared Gas Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Infrared Gas Sensor total production and demand, 2021-2032, (K Units)

Global Infrared Gas Sensor total production value, 2021-2032, (USD Million)

Global Infrared Gas Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Infrared Gas Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Infrared Gas Sensor domestic production, consumption, key domestic manufacturers and share

Global Infrared Gas Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Infrared Gas Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Infrared Gas Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Infrared Gas Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Alphasense, CityTechnology Ltd, Drager, GSS, GE, Senseair, Dynament, SGX Sensortech (IS), SmartGAS, Mipex, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Infrared Gas Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Infrared Gas Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Gas Sensor Market, Segmentation by Type:

CO2

Combustible Gases

Others

Global Infrared Gas Sensor Market, Segmentation by Application:

Industrial

Residential

Companies Profiled:

Alphasense

CityTechnology Ltd

Drager

GSS

GE

Senseair

Dynament

SGX Sensortech (IS)

SmartGAS

Mipex

Clairair

Heimann

M-U-T

Edinburgh Sensors

Hanwei

NE Sensor

Key Questions Answered:

1. How big is the global Infrared Gas Sensor market?
2. What is the demand of the global Infrared Gas Sensor market?
3. What is the year over year growth of the global Infrared Gas Sensor market?
4. What is the production and production value of the global Infrared Gas Sensor market?
5. Who are the key producers in the global Infrared Gas Sensor market?
6. What are the growth factors driving the market demand?

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