

Global Flame Detectors Market Size study & Forecast, by Product (Single UV, Single IR, Dual UV/IR, Triple IR, Multi IR), by Connectivity (Wired, Wireless), by Industry (Oil & Gas, Energy & Power, Chemicals, Aerospace & Defence, Logistics, Mining, Automotive, Pharmaceuticals, Marine, Other) and Regional Analysis, 2023-2030

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Abstracts

Global Flame Detectors Market is valued at approximately USD 1.7 billion in 2022 and is anticipated to grow with a CAGR of more than 5.0% over the forecast period 2023-2030. Flame detectors are devices used to detect and respond to the presence of flames or fires. They are crucial components of fire detection and suppression systems, aiming to provide early warning and initiate appropriate safety measures. Flame detectors employ various technologies to sense the presence of flames, such as ultraviolet (UV), infrared (IR), or a combination of both. Flame detectors are commonly used in a variety of industries and environments, including oil and gas facilities, chemical plants, power plants, warehouses, and public buildings. They are crucial in ensuring the safety of personnel, assets, and property by triggering appropriate actions, such as activating fire suppression systems, sounding alarms, or initiating emergency protocols when flames are detected. Thus, rapidly growing industrialization and a growing frontier technology market are anticipated as the growth drivers of this market.

According to the United Nations Industrial Development Organization (UNIDO) in 2021, the global manufacturing output had maintained a stable year-on-year growth rate of between 3 and 4 percent. Similarly, according to the Indian Brand Equity Foundation (IBEF) in 2023, electronics manufacturing saw an exponential growth of USD 67.3 billion in 2020-2021. According to United Nations Conference on Trade and

Development UNCTAD in 2023, the global frontier technology market is set to thrive by 2030, reaching a market size of approximately USD 9,469 billion. The market growth is primarily driven by advancements in frontier technologies such as IoT and AI. IoT is expected to contribute USD 4,422 billion, while AI is projected to contribute USD 1,582 billion, accounting for 47% and 17% of the total market size, respectively. These figures highlight the significant role these technologies play in advancing innovation and fueling the overall growth of the global frontier technology market as a result the innovative and advanced technology would impact positively on the Global Flame Detectors Market. However, high repair & maintenance costs and environmental conditions & interfaces such as heavy smoke, fog, dust and more, may hamper the growth of the market. Moreover, increasing integration with smart homes and increasing awareness of safety are growth opportunities in the market space during forecasted year 2023-2030.

The key regions considered for the Global Flame Detectors Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market driven by the region's expanding industrialization and the rising adoption rate of flame detectors in manufacturing factories and the oil and gas sector. During the projected timeframe, the Europe region is anticipated to be the fastest growing market in the flame detector market. The European region demonstrates the highest technology adoption rate within this industry. It stands as an organized market with the complete presence of stakeholders across the flame detector value chain. The region's stringent policies, regulations, and laws contribute to the robust demand for flame detectors.

Major market player included in this report are:

Honeywell International Inc.

Siemens AG

Bosch Security Systems B.V.

Emerson Electric Co.

United Technologies Corporation

MicroPack Engineering Ltd.

Johnson Controls International PLC

Teledyne Oldham Simtronics SAS

Minnesota Mining and Manufacturing Company (3M)

MSA Safety Incorporated

Recent Developments in the Market:

In August 2021, Johnson Controls introduced the ZETTLER PROFILE Lite series of

addressable fire alarm control panels in South Africa, the Czech Republic, and the Middle East. This release includes two new models, namely Pro215 Lite and Pro415 Lite, which feature color LCD screens and an intuitive interface with 32 zonal LEDs. The integrated design of these panels simplifies operation and reduces the likelihood of operator errors.

In June 2021, Spectrex introduced the SharpEye 40/40D and C series flame detectors, designed to deliver optimal protection against various types of fires, including hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires. These detectors offer early fire warning capabilities, even at long distances, and boast a remarkable response time, ensuring prompt detection. They are equipped with QuadSense™ technology, which enhances their overall performance. Notably, the SharpEye 40/40D model excels in detecting hydrocarbon fires at an impressive distance of up to 300 ft (90 m) in under 50 ms, while maintaining high reliability and minimizing false alarms.

Global Flame Detectors Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product, Connectivity, Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Single UV

Single IR
Dual UV/IR
Triple IR
Multi IR

By Connectivity:

Wired
Wireless

By Industry:

Oil & Gas
Energy & Power
Chemicals
Aerospace & Defence
Logistics
Mining
Automotive
Pharmaceuticals
Marine
Other

By Region:

North America
U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan

Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa

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