

# Global Pyroelectric Infrared Flame Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Pyroelectric Infrared Flame Sensor market size is expected to reach \$ 251 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global Pyroelectric Infrared Flame Sensor production reached approximately 3,000 K units, with an average global market price of around 52.8 USD/unit.

Pyroelectric Infrared Flame Sensor is a flame detection device that utilizes the pyroelectric effect of piezoelectric materials to respond to specific infrared radiation bands emitted by combustion flames, converts transient infrared thermal energy into measurable electrical signals, identifies flame characteristics through signal processing, and triggers alarm or control actions, featuring rapid response, high sensitivity and anti-interference capabilities for open flame monitoring.

Demand for Pyroelectric Infrared Flame Sensor is driven by stringent industrial fire safety regulations, expansion of petrochemical, energy and manufacturing critical facilities, and rising requirements for early fire warning in commercial and civil buildings, with growing preference for high anti-interference, fast response and multi-band detection products; business opportunities lie in the miniaturization and low-power optimization of sensing elements, integration with intelligent fire alarm systems, mass production for industrial safety upgrades and civil fire protection markets, and customized products for harsh working environments, while the development of smart fire protection and IoT fire monitoring systems creates incremental market space for high-performance pyroelectric infrared flame sensors.

This report studies the global Pyroelectric Infrared Flame Sensor production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pyroelectric Infrared Flame 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 Pyroelectric Infrared Flame Sensor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

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

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

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

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

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

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

Global Pyroelectric Infrared Flame Sensor production by Sensing Element Material, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Pyroelectric Infrared Flame 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 InfraTec, Kemet (Yageo), Laser Components, HJP Technology, Broadcom, Winsen Electronics, Met-sensor, ICC, Micro-Hybrid, SaiyaSensor, 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 Pyroelectric Infrared Flame Sensor market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Sensing Element Material, 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 Pyroelectric Infrared Flame Sensor Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Pyroelectric Infrared Flame Sensor Market, Segmentation by Sensing Element Material:**

Single Crystal Pyroelectric Materials

Ceramic Pyroelectric Materials

Polymer Pyroelectric Materials

**Global Pyroelectric Infrared Flame Sensor Market, Segmentation by Detection Infrared Band:**

Broadband Infrared Detection Sensors

Narrowband Infrared Detection Sensors

Dual-Band Infrared Detection Sensors

Global Pyroelectric Infrared Flame Sensor Market, Segmentation by Output Signal Type:

Analog Signal Output Sensors

Digital Signal Output Sensors

Switch Signal Output Sensors

Global Pyroelectric Infrared Flame Sensor Market, Segmentation by Application:

Petrochemical Facility Monitoring

Industrial Production Fire Detection

Power Equipment Safety Monitoring

Others

Companies Profiled:

InfraTec

Kemet (Yageo)

Laser Components

HJP Technology

Broadcom

Winsen Electronics

Met-sensor

ICC

Micro-Hybrid

SaiyaSensor

Senba Sensing Technology

Anysafe

Vertex

Sensortiot

**Key Questions Answered:**

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

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