

# Global Thermal Infrared Thermopile Sensors Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Thermal Infrared Thermopile Sensors market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

The market for thermal infrared thermopile sensors has been growing steadily, driven by several key factors and drivers that have increased their demand across various industries. These sensors are used for measuring temperature and detecting thermal radiation in a wide range of applications. Here are some of the key drivers contributing to the growth of the thermal infrared thermopile sensors market:

**Industrial Automation and Process Control:** The use of thermal infrared thermopile sensors is integral to industrial automation and process control systems. They are employed for temperature monitoring and control in manufacturing processes, ensuring product quality and operational efficiency.

**Energy Efficiency Initiatives:** The focus on energy conservation and sustainability has led to increased demand for thermal infrared thermopile sensors in building automation systems. These sensors are used for occupancy detection, energy-efficient lighting, and HVAC (heating, ventilation, and air conditioning) control.

**Consumer Electronics:** Infrared thermopile sensors are commonly used in consumer electronics, such as smartphones and tablets, for applications like proximity sensing, ambient light sensing, and touchless gesture recognition.

**Medical Devices:** In the medical field, thermal infrared thermopile sensors are used in various applications, including non-contact temperature measurement, fever detection,

and medical imaging.

**Automotive Industry:** These sensors play a crucial role in automotive applications, including climate control systems, seat occupancy detection, and safety systems like airbag deployment based on occupant detection.

**IoT and Smart Home Technology:** The growth of the Internet of Things (IoT) and smart home technology has increased the demand for thermal infrared thermopile sensors for use in smart thermostats, security systems, and home automation devices.

**Food Processing and Quality Control:** In the food industry, these sensors are used for temperature monitoring and quality control in food processing, ensuring safe and consistent product quality.

Thermopiles are designed to measure temperature from a distance by detecting an object's infrared (IR) energy. The higher the temperature, the more IR energy is emitted. The thermopile sensing element, composed of small thermocouples on a silicon chip, absorb the energy and produce an output signal. A reference sensor is designed into the package as a reference for compensation. Thermopile infrared (IR) non-contact temperature measurement sensors are available with various lens, and filters allowing use in multiple applications, from industrial pyrometers, to climate controls and medical devices.

This report studies the global Thermal Infrared Thermopile Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal Infrared Thermopile Sensors, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thermal Infrared Thermopile Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal Infrared Thermopile Sensors total production and demand, 2018-2029, (K Units)

Global Thermal Infrared Thermopile Sensors total production value, 2018-2029, (USD Million)

Global Thermal Infrared Thermopile Sensors production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Thermal Infrared Thermopile Sensors consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Thermal Infrared Thermopile Sensors domestic production, consumption, key domestic manufacturers and share

Global Thermal Infrared Thermopile Sensors production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Thermal Infrared Thermopile Sensors production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Thermal Infrared Thermopile Sensors production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Thermal Infrared Thermopile Sensors 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 Excelitas, Heimann, Sunshine Technologies, Melexis, Amphemol, TE Connectivity, Orisystech, Semitec and Hamamatsu Photonics, 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 Thermal Infrared Thermopile Sensors 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 Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

## Global Thermal Infrared Thermopile Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Thermal Infrared Thermopile Sensors Market, Segmentation by Type

Through Hole Type

SMD Type

## Global Thermal Infrared Thermopile Sensors Market, Segmentation by Application

Medical Devices

IoT Smart Home

Industrial Use

Consumer Electronics

Others

## Companies Profiled:

Excelitas

Heimann

Sunshine Technologies

Melexis

Amphemol

TE Connectivity

Orisystech

Semitec

Hamamatsu Photonics

Nicera

KODENSHI

Winson

Senba Sensing Technology

San-U

## Key Questions Answered

1. How big is the global Thermal Infrared Thermopile Sensors market?
2. What is the demand of the global Thermal Infrared Thermopile Sensors market?
3. What is the year over year growth of the global Thermal Infrared Thermopile Sensors market?

4. What is the production and production value of the global Thermal Infrared Thermopile Sensors market?
  
5. Who are the key producers in the global Thermal Infrared Thermopile Sensors market?

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