

Global Non-Contact Temperature Sensors Market Growth 2026-2032

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Abstracts

The global Non-Contact Temperature Sensors market size is predicted to grow from US\$ 1503 million in 2025 to US\$ 3573 million in 2032; it is expected to grow at a CAGR of 13.3% from 2026 to 2032.

Non-contact temperature sensors are devices that determine surface temperatures without physical contact with the target object. They operate by capturing signals such as infrared radiation, laser reflection, or microwave scattering, and calculate temperature based on principles including blackbody radiation, pyroelectricity, or TDLAS. Their core value lies in ensuring safe, rapid, and precise temperature measurement under extreme, hazardous, or dynamic conditions, while preventing contamination or damage to the target. Mainstream measurement ranges span -50°C to 3000°C, with response times ranging from microsecond to millisecond levels and accuracy reaching 0.1°C. These sensors are suitable for diverse sectors including industrial, medical, and consumer electronics applications.

Global sales of non-contact temperature sensors are projected to reach 443.93 million units by 2025, with an average price of US\$3.46 per unit.

Core Development Trends

High Precision and Resolution: Utilising MEMS processes, quantum detectors, and AI algorithms to enhance accuracy to 0.05°C, with infrared array resolutions reaching 640×480 pixels, suitable for low-temperature (-50°C and below) and minute temperature differential measurements.

Intelligent Integration with IoT: Incorporating edge computing, wireless communication,

and cloud platforms to support remote monitoring, data traceability, and predictive maintenance?such as thermal fault warning systems for industrial equipment.

Miniaturisation and Integration: MEMS technology reduces size to the millimetre scale, integrating signal processing and communication modules for compact applications like smartphones, VR/AR devices, and wearables.

Green Low Power Consumption: Utilises low-power MCUs and efficient power management, reducing standby power consumption to the microwatt level, suitable for battery-powered portable and wireless applications.

LP Information, Inc. (LPI) ' newest research report, the "Non-Contact Temperature Sensors Industry Forecast" looks at past sales and reviews total world Non-Contact Temperature Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Non-Contact Temperature Sensors sales for 2026 through 2032. With Non-Contact Temperature Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Non-Contact Temperature Sensors industry.

This Insight Report provides a comprehensive analysis of the global Non-Contact Temperature Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Non-Contact Temperature Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Non-Contact Temperature Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Non-Contact Temperature Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Non-Contact Temperature Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Non-Contact Temperature Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Infrared Temperature Sensors

Fiber Optic Temperature Sensors

Segmentation by Detection Principle:

Thermopile

Pyroelectric

Microbolometer

Segmentation by Sales Channels:

Direct Sales

Distribution

Segmentation by Application:

Industrial Automation

Healthcare

Consumer Electronics

Aerospace / Defence

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

FLUKE

Accurate Sensors

OMRON

IFM Electronic

Turck

Micro-Epsilon

OMEGA

Advanced Energy

Calex Electronics

Melexis

Keyence

OPTEX Group

Pasco

Process-Sensors

Proxitron

Banner

HTM

Eluox Automation

FSG Sensing

Key Questions Addressed in this Report

What is the 10-year outlook for the global Non-Contact Temperature Sensors market?

What factors are driving Non-Contact Temperature Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Non-Contact Temperature Sensors market opportunities vary by end market size?

How does Non-Contact Temperature Sensors break out by Type, by Application?

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