

## **NA Biomedical Sensors - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

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### **Report description:**

The NA Biomedical Sensors Market is expected to register a CAGR of 6.97% during the forecast period.

#### Key Highlights

- The biomedical sensors market is expected to mark gradual growth during the forecast period 2021-2026. Technological advancements in the field of biomedical sensors using microtechnology and nanotechnology will bring tiny, robust, smart, and cost-effective sensors that are adaptable to the individual genetic formulation.
- These sensors can be set to trigger alerts when they enlist unpredictable readings, screen the existence of toxic agents in the blood, or empower drugs directly into the circulatory system. Investments in developing sensors with such capabilities will act as a major factor for the growth of the market, and eventually, these products will find huge demand in the healthcare industry.
- Biomedical sensors are driven by the increased demand in hazardous environments, utilization in situations resulting from natural disasters, increased demand in the healthcare sector for diabetic and heart patients, and embedded monitoring of the patients.
- The advancement in technology has made it possible to build a biomedical sensor using nano and micro technology, making it tiny, robust, smart, and cost-effective. The early detection of irregularities in the health status of the patients will contribute to a better quality of life.
- Even though biomedical sensors are playing a major role in life-saving, they are facing certain challenges such as patient's safety and comfort due to strong electromagnetic fields, transferring energy from external to internal parts with high efficiency and high data rates, limited computation and data storage, and ultra-low power consumption.

North America Biomedical Sensors Market Trends

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## Infrared Temperature Sensors to Drive the Market Growth

- IR temperature sensor applications are found in various defense applications such as optical target sighting and variable emissivity measurements that are often helpful in tracking activities. However, all these applications are very advanced and have a continuous demand due to the globally increasing military spending.
- In recent years, even the top snack manufacturers like Frito-Lay North America, Inc, a popular division of Pepsi Co, have started a new range of products rather baked than fried. Such trends, coupled with stringent food safety regulations worldwide, are expected soon to create substantial market opportunities for IR temperature sensors.
- Forward-Looking Infrared (FLIR) has been a prominent vendor for such technology. FLIR technology has been used in ports and borders and airports, and other places to look for elevated body temperatures. The company has witnessed a significant increase in those orders in the past month.
- The list of countries using FLIR products for temperature screening continues to grow. It now includes China, Thailand, Taiwan, the Philippines, Singapore, Malaysia, South Korea, Italy, and the U.S. The company stated that its supply chain is continuing to keep up with demand.
- Predictive maintenance is one of the functional uses of Infrared (IR) temperature sensors in the market; enterprises are increasingly focusing on predictive maintenance, automation, and IoT.

## United States Holds Significant Market Share

- The United States holds a significant market share due to advancements across various industries in the country. With the R & D of multiple types of temperature sensors being integrated into different products, the market for temperature sensors is set to grow at a healthy rate.
- For instance, automakers, such as General Motors, have planned to launch 20 new all-electric vehicles by 2023. The Tesla Company also changed the face of the EV market segment in the country by introducing reliable and efficient electric vehicles.
- The United States's automotive industry, directly and indirectly, employs hundreds of thousands of Americans and invest billions of dollars. It was estimated that the automotive industry annually spends nearly USD 105 billion on R&D worldwide, USD 18 billion of which is spent in the United States to incorporate newer and more advanced sensors into automobiles.
- With the US Department of the Interior planning to allow offshore exploratory drilling in about 90% of the Outer Continental Shelf (OCS) acreage, under the National Outer Continental Shelf Oil and Gas Leasing Program (National OCS Program) for 2019-2024, the oil and gas sector in the region is expected to open up new opportunities to the market.
- In the COVID-19 pandemic, the market is witnessing growing demand for temperature sensors at the workplace for temperature screening. For instance, the CDC (Centers for Disease Control and Prevention) in the United States and WHO (World Health Organization) recommended temperature checking at the workplace.

## North America Biomedical Sensors Industry Overview

The North American biomedical sensor market is highly fragmented due to many players operating in the market, such as Honeywell, Analog Devices Inc, and Texas Instruments, among other regional and local manufacturers. Continuous product up-gradation and industry convergence are driving the market towards highly differentiated offerings. Further, players adopt strategic initiatives such as mergers and acquisitions, partnerships, etc., to strengthen their market presence. Some of the recent developments in the market are:

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- May 2021 - Honeywell installed advanced skin temperature screening systems (Honeywell Thermo Rebellion) in Terminal One of New York's John F. Kennedy International Airport for passengers and employees.
- July 2020 - Maxim Integrated Products Inc. and Analog Devices Inc. announced that they entered into a definitive agreement. Analog devices Inc. will acquire Maxim in an all-stock transaction that values the combined enterprise at over USD 68 billion. The transaction is expected to close in the summer of 2021. This transaction would strengthen Analog Devices Inc. and increase its reach and scale across multiple markets.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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