

# Analysis Report on the Biomedical Pressure Sensor Market Size, Share, Competition, and Trends

*The Business Research Company's  
Biomedical Pressure Sensor Global  
Market Report 2025 – Market Size,  
Trends, And Global Forecast 2025-2034*

LONDON, GREATER LONDON, UNITED  
KINGDOM, December 11, 2025  
/EINPresswire.com/ -- The [biomedical](#)

[pressure sensor market](#) has been

experiencing swift growth, driven by increasing healthcare needs globally. As medical technology advances and healthcare systems evolve, the demand for precise and reliable pressure sensors in medical applications continues to rise. Let's explore the current market size, key growth factors, leading regions, and future trends shaping this vital sector.



It will grow from \$1.87 billion in 2024 to \$2.07 billion in 2025 at a compound annual growth rate (CAGR) of 10.7%”

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## [Biomedical Pressure Sensor Market Size](#) and Expected Growth Trajectory

The biomedical pressure sensor market size has expanded considerably in recent years, with its value rising from \$1.87 billion in 2024 to an anticipated \$2.07 billion in 2025. This reflects a compound annual growth rate (CAGR) of 10.7%. The market's historical growth has been fueled by several factors, including the increasing prevalence of chronic cardiovascular and respiratory diseases, a growing

preference for minimally invasive procedures, rising healthcare spending worldwide, an expanding elderly population that requires continuous health monitoring, and greater adoption of home healthcare technologies.

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Looking ahead, the market is poised for even faster growth, projected to reach \$3.08 billion by 2029 with a CAGR of 10.4%. This surge will be supported by substantial investments in smart



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hospital infrastructure and connected healthcare systems, wider use of remote patient monitoring, the growing application of personalized and precision medicine, and ongoing digital transformation in healthcare driven by supportive government policies. Notable emerging trends in this period include advances in microelectromechanical systems (MEMS) manufacturing, integration of wireless and IoT capabilities, development of miniaturized and flexible sensor materials, a rise in biocompatible and implantable sensor designs, and improved signal accuracy through sophisticated calibration methods.

### What Biomedical Pressure Sensors Measure and Their Importance

Biomedical pressure sensors are specialized devices designed to detect and monitor pressure within various biological systems, such as blood vessels, lungs, or intracranial spaces. By providing accurate, real-time pressure data, these sensors play a critical role in medical diagnosis, patient monitoring, and guiding clinical interventions. They are essential for identifying abnormal pressure fluctuations that may signal conditions such as hypertension, respiratory problems, or increased intracranial pressure, thus aiding timely and effective healthcare management.

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### Key Factors Propelling Growth in the Biomedical Pressure Sensor Market

One major driver of the biomedical pressure sensor market is the rising incidence of chronic diseases. Chronic conditions like diabetes, cardiovascular illnesses, cancer, and chronic respiratory disorders tend to develop slowly and require long-term management. With global population aging, more people are living into older age groups where these diseases are significantly more prevalent. This trend increases demand for continuous health monitoring and advanced medical devices.

Another important factor is the role these sensors play in supporting chronic disease management by enabling accurate monitoring. For example, biobank automation systems, which are key to managing biospecimens for research and therapy development, benefit from the reliable data provided by pressure sensors. According to the World Health Organization (WHO) in February 2024, cancer incidence worldwide is expected to surpass 35 million new cases by 2050 — a 77% increase over the 20 million new cases recorded in 2022. This sharp rise in chronic diseases is a critical factor driving demand for biomedical pressure sensors.

### Regional Perspective on the Biomedical Pressure Sensor Market

In 2024, North America held the largest share of the biomedical pressure sensor market, reflecting the region's advanced healthcare infrastructure and high adoption rates of medical technologies. However, the Asia-Pacific region is expected to experience the fastest growth in the coming years, fueled by increasing healthcare investments, expanding geriatric populations, and rapid modernization of medical facilities.

The market analysis covers key geographic regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global trends and opportunities.

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