

## **Middle East Biomedical Sensors Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)**

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### **Report description:**

The Middle East Biomedical Sensors market is estimated at USD 380 million by 2027 at a CAGR of 6.2% over the period 2022-2027. The near future will bring Biomedical sensors that are adaptable to the genetic formulation of each individual. These sensors can be set to trigger alerts when unpredictable readings are enlisted, screen the existence of toxic agents in the blood, or empower drugs directly into the circulatory system. These Sensors are set to find their demand in the healthcare industry.

#### Key Highlights

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 Microtechnology, 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 the life-saving situation, it is 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. UAE is leading the market and also with the highest growth rate in this region, followed by Saudi Arabia and Israel.

Antimicrobial resistance, poor lifestyles, alcohol consumption, and smoking all contribute to the increased prevalence of lifestyle-related disorders, including diabetes. According to the International Diabetes Federation, 463 million persons had diabetes in 2019, with 700 million projected by 2045. As a result, the demand for biomedical sensors for routine health monitoring is growing. Furthermore, cardiovascular diseases (CVD) constitute a serious threat to human health and place a considerable financial burden on both developed and developing countries around the world.

COVID has had a significant impact on countries like Saudi Arabia and the United Arab Emirates, with an estimated 0.733 million

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overall cases in the area, according to the John Hopkins Institute. According to Worldometer data, South Africa had about 1.51 million COVID-19 positive cases as of March 1, 2021. Countries are experiencing economic crises, which are affecting a variety of industries, including healthcare. Despite this, the market for biological sensors is growing due to the significant rise in COVID-19 detection tests. As a result, numerous technologies for quick testing have been created. For example, researchers from Riyadh's Alfaisal University partnered with Riyadh's King Abdullah International Medical Research Center to develop biomedical sensors to detect the Middle East respiratory syndrome coronavirus (MERS).

## MEA Biomedical Sensors Market Trends

### Growing Demand for fitness devices to Drive the Market Growth

The incidence and prevalence of lifestyle-related illnesses such as diabetes and hypertension are expected to rise over the projection period as a result of the sedentary lifestyle. Several physiological factors, such as blood sugar levels and blood pressure, must be continuously monitored in some of these disorders. This enables the integration of healthcare data with portable medical equipment, which may then be provided to clinicians for real-time data access and error reduction. Furthermore, the rising death rate from noncommunicable illnesses is a major source of concern, necessitating a greater focus on tailored monitoring and care. This is expected to boost demand for wearable medical devices and the research industry in the long run. The COVID-19 epidemic has increased the importance of wearable medical devices in the healthcare industry. Various firms working on wearable medical products from across the world are joining the market, where wearable medical equipment can detect early warning symptoms of viral infection. The Ava Bracelet, which was originally designed as a fertility tracker, is now being utilized to aid in the fight against the coronavirus. This bracelet monitors heart rate variability, breathing rate, and skin temperature and can be used to follow virus symptoms. This pandemic presents a once-in-a-lifetime opportunity. As a result of this, the demand for wearables is expected to rise.

The rising frequency of chronic diseases, as well as rising death rates, is a major source of concern for both individuals and government agencies. As a result, healthcare practitioners can provide tailored care that includes ongoing and remote patient monitoring. These can also be worn for up to 24 hours without interfering with daily activities. As a result of the numerous benefits it provides, the demand for wearable medical devices, as well as the studied market, is expected to increase over the projection period.

Because the internet of things is becoming increasingly popular in every part of the globe, the industry is expected to expand. The advent of new technologies and the introduction of innovative products in favor of customers at reasonable rates are also driving demand for fitness trackers in the Middle East. The growing trend of recording and monitoring the number of steps walked, heart rate, sleep duration, and calories burned when exercising or participating in sports activities is expected to enhance the demand for fitness trackers in the Middle East.

However, a lack of specific understanding about designs and how to manufacture them steadily stifles the market's growth rate. Rapid changes in economic tactics may have a negative influence on the Middle East's fitness tracker business. Reduced device production rates due to security and data threat risks remain a difficult attribute for market players to overcome. People in rural areas are unaware of these devices and their benefits, which is limiting market demand.

### Healthcare industry to hold substantial share in the market

The COVID-19 pandemic has devastated the industries globally and persists as newer virus variants are emerging over the last year. The demand for various types of sensors, such as temperature sensors, witnessed a significant increase in demand across the region. As the outbreak very highly impacted the region, the region significantly contributed to the market's growth.

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Mobile technologies are paving the way to revolutionize the diagnosis of diseases and monitoring patient treatment. As wearables are personal devices that provide continuous monitoring of vital parameters, they can be used as a clinical tool for determining the patterns of a particular disease, providing a better understanding of the disease, and continuously monitoring users' health. Wearable fitness technology has weaved itself into people so that FitBits and smartwatches are seen as mainstream. The future of wearable devices is estimated to witness continuous growth over the coming years.

Accelerometers measure blood pressure, heart rate, glucose level, and oxygen in the blood. These sensors find critical applications in devices, such as defibrillators and pacemakers. Therefore, the growing healthcare concern among people and increasing healthcare awareness has propelled the need for sensor technologies and monitoring devices that are able to sense and provide feedback to the users about the health status for increased safety.

Further, medical sensors in healthcare have the capability to revolutionize the way a disease is cured or prevented.

Advancements in engineering, technology, and material sciences have given way to highly refined sensors used in medical research. These kinds of sensors enable innovation and provide opportunities for thought-controlled prosthetics and other personal assistive devices for people with paralysis, amputated limbs, and other movement impairments driving the market. In the United Arab Emirates' federal diversification plan, healthcare development and spending are emphasized as vital goals. According to the UAE Vision 2021, the UAE will continue to invest in world-class healthcare infrastructure, skills, and services to meet residents' growing requirements and aspirations.

### MEA Biomedical Sensors Market Competitor Analysis

The Middle East Biomedical Sensors Market is highly competitive with the presence of various players in the market that provide various types of sensors. Moreover, these sensors are continuously getting advanced as companies invest significantly in improving the capabilities and characteristics of these sensors. Additionally, the market players are also focusing on partnerships and collaborations with new product developments, among others, to increase their profitability and improve their share in the market.

In January 2022, The use of electronic textile sensors to provide and decode important bodily data has been researched. The digitization of textiles (textronics) has opened up new possibilities for combining conformable sensors with noninvasive, continuous decoding of important bodily signals. It examines the present performance characterization approaches for these sensors and emphasizes the necessity for standardized test methods in the areas of biocompatibility, thermal and tactile comfort, aging, and biomedical sensing modality operating at a standard human stretch.

In February 2022, New gold and platinum formulations have been added to Electroninks' line of particle-free conductive inks. Consumer electronics, medical gadgets, sensors, and semiconductors can now use gold and platinum inks to create lighter, less expensive, and more ecologically friendly goods. Metal-organic precursors in the novel gold and platinum metal inks break down cleanly at lower temperatures than nanoparticle inks and can be UV-cured

#### Additional Benefits:

The market estimate (ME) sheet in Excel format  
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