

Medical Electrodes Market Report by Electrode Type (Diagnostic Electrodes, Therapeutic Electrodes), Usability (Disposable Medical Electrodes, Reusable Medical Electrodes), Technology (Surface Electrodes, Needle Electrodes), Application (Cardiology, Neurophysiology, Sleep Disorders, Intraoperative Monitoring, and Others), End User (Hospitals, Diagnostic Centers, Medical Research Institutions, and Others), and Region 2024-2032

Market Report | 2024-04-08 | 135 pages | IMARC Group

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Report description:

The global medical electrodes market size reached US\$ 1,264.8 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,766.2 Million by 2032, exhibiting a growth rate (CAGR) of 3.7% during 2024-2032.

A medical electrode is a solid electronic conductor that is used to transfer the ionic current in the body into electric current for biological measurements. It comprises a metal part, lead and an electrode conducting paste and assists in the diagnosis of various nervous, ocular, cardiac and muscular disorders. Depending upon the anatomical location, multiple medical electrodes are used to receive bio-signals such as Electrocardiogram (ECG), electroencephalogram (EEG) and Electromyogram (EMG). Medical professionals highly prefer these electrodes as they are affordable, disposable, sterilizable and easy to administer. Owing to these benefits, they find wide application in various orthopedic, cardiovascular, cosmetic and neurosurgeries in hospitals, diagnostic centers and medical research institutions.

The increasing prevalence of degenerative neurological and cardiological diseases, such as Parkinson's, Alzheimer's, fibromyalgia and various brain disorders, is a key driving factor for the market growth. Furthermore, the rising geriatric population that has

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created a need for early diagnosis of ailments is also increasing the demand for medical electrodes globally. Also, increasing investments and government support through favorable policies is catalyzing the growth of the market. Owing to these factors, there has been a significant increase in research and development (R&D) to ensure easy access to quality healthcare for the vulnerable population and developing healthcare infrastructure while making it affordable for all. Moreover, technological developments such as advancements in nanotechnology have enabled miniaturization of these electrodes and facilitated their application for various minimally invasive surgeries.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global medical electrodes market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on electrode type, usability, technology, application and end user.

Breakup by Electrode Type:

- Diagnostic Electrodes
 - Electrocardiogram (ECG) Electrodes
 - Electromyogram (EMG) Electrodes
 - Electroencephalogram (EEG) Electrodes
 - Electronystagmogram (ENG) Electrodes
 - Neonatal Electrodes
 - Fetal Scalp Electrodes
 - Others
- Therapeutic Electrodes
 - Defibrillator Electrodes
 - Electrosurgical Electrodes
 - Pacemaker Electrodes
 - Transcutaneous Electrical Nerve Stimulation (TENS) Electrodes
 - Others

Breakup by Usability:

- Disposable Medical Electrodes
- Reusable Medical Electrodes

Breakup by Technology:

- Surface Electrodes
- Needle Electrodes

Breakup by Application:

- Cardiology
- Neurophysiology
- Sleep Disorders
- Intraoperative Monitoring
- Others

Breakup by End User:

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Hospitals
Diagnostic Centers
Medical Research Institutions
Others

Breakup by Region:

North America
Europe
Asia Pacific
Middle East and Africa
Latin America

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Medtronic PLC, CONMED, 3M Company, Koninklijke Philips N.V., Ambu A/S, Dymedix Diagnostics, Natus Medical Incorporated, Cognionics Inc., Cooper Surgical Inc., ZOLL Medical Corporation, C. R. Bard Inc., RhythmLink International company, NeuroSky and GE Healthcare.

Key Questions Answered in This Report:

How has the global medical electrodes market performed so far and how will it perform in the coming years?
What are the key regional markets in the global medical electrodes industry?
What has been the impact of COVID-19 on the global medical electrodes industry?
What is the breakup of the market based on the electrode type?
What is the breakup of the market based on the usability?
What is the breakup of the market based on the technology?
What is the breakup of the market based on the application?
What is the breakup of the market based on the end user?
What are the various stages in the value chain of the global medical electrodes industry?
What are the key driving factors and challenges in the global medical electrodes industry?
What is the structure of the global medical electrodes industry and who are the key players?
What is the degree of competition in the global medical electrodes industry?
What are the profit margins in the global medical electrodes industry?

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