

Electrodes for Medical Devices: Market Research Report

<https://marketpublishers.com/r/EBD84CEA1A8EN.html>

Date: December 2017

Pages: 308

Price: US\$ 5,600.00 (Single User License)

ID: EBD84CEA1A8EN

Abstracts

This report analyzes the worldwide markets for Electrodes for Medical Devices in US\$ Thousand by the following Segments: Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, TENS Electrodes. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa, and Latin America. Annual estimates and forecasts are provided for the period 2015 through 2022.

Also, a six-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs.

The report profiles 95 companies including many key and niche players such as -

3M Company

Ambu A/S

C.R Bard, Inc.

CONMED Corporation

Leonhard Lang GmbH

Contents

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

II. EXECUTIVE SUMMARY

1. OUTLOOK

Electrodes – An Integral Part of Most Medical Electronic Devices

Current and Future Analysis

Expanding Aging Population Spurs Demand

Table 1. Global Population Statistics for the 65+ Age Group (2015) (includes corresponding Graph/Chart)

Table 2. Comparison of Aging Population by Country (1980, 2015 & 2050): Percentage Share of Population Aged Above-65 Years of the Overall Population for Select Countries (includes corresponding Graph/Chart)

Table 3. Life Expectancy for Select Countries in Number of Years: 2015E (includes corresponding Graph/Chart)

Rising Disease Prevalence Fuels Market Growth

Table 4. Global Annual Medical Cost of CVD in US\$ Billion (2010-2030) (includes corresponding Graph/Chart)

Table 5. Fatalities by Heart Conditions - Estimated Percentage Breakdown for Cardiovascular Disease, Ischemic Heart Disease, Stroke, and Others (includes corresponding Graph/Chart)

Table 6. Alzheimer's Prevalence by Age Group (includes corresponding Graph/Chart)

Table 7. Global Prevalence of Parkinson's Disease (2014): Number of Patients Affected in Thousands for Select Countries/Regions (includes corresponding Graph/Chart)

Table 8. Global Prevalence of Epilepsy (2014): Number of Patients Affected in Thousands for Select Countries/Regions (includes corresponding Graph/Chart)

Portable Devices Drive Growth

2. MARKET DYNAMICS & TRENDS

Growing Shift towards Single Use Electrodes

Continued Use of Re-Usable Electrodes – A Cause of Concern

Inefficiency of Cleaning Procedures – Studied and Validated

Disposable Electrodes Help Stave Off HAIs

Re-Use of Single Use Electrode – Not a Safe Proposition

Wet Vs Dry Electrodes

Electrodes with Hydrogels Gain Popularity

Dry Electrodes Garner Significant Attention

Ambulatory Healthcare Drives Interest in Dry Electrode Technology

Dry Electrodes Overcome Short Circuit Issues in Arrays

Hybrid Wet-Dry Electrodes to Address Concerns in Individual Technologies

Nanotechnology to Enhance Functionality of Electrodes

Newly Developed Multi-Electrode Array Promises Restoration of Hand Movement

Conducting Polymers Hold Promise as Effective Electrode Coating to Ease Implantation Procedure

Textile Electrodes – An Emerging Area of Interest

Popularity of Ag/AgCl as Electrode Material

Novel Electrode Backing Materials Enable Longer Application

Platinum Gains Popularity as Electrode Material

Trends in ECG Monitoring Electrodes

Electrodes Play a Pivotal Role in Growing Sophistication of Cardiac Monitoring

The Evolution of Electrode Materials in ECG

Dry Electrodes for ECG Take Multiple Forms

Demand for ECG Electrodes Continue to Rise

Dry ECG Electrodes yet to Make a Mark in Clinical Settings

A Focus on Issues Related to Use of Gel and Dry Electrodes in ECG

Flexible Electrodes Overcome Drawbacks of Solid Electrodes

Self-Adhesive Pads Gain Ground over Paddle Electrodes

Need for Superior Electrode Technology in Premature Infants Monitoring

New Graphene-Based Electrodes for ECG Shows Promise

FEEP Promises to Address Conventional Issues with Non-Contact ECG Electrodes

Silver Nanowire Dry Electrodes in Holter Monitors – New Research Work Shows

Improved Holter's Efficiency
Offset Electrodes Overcome Motion Artifacts
Electrodes with Offset Studs Lose Appeal
Development of Wearable, Patch Monitors – A Threat to ECG Electrodes
Trends in EEG Electrodes
Surface Electrodes – The Most Popular EEG Electrode Option
Technological Advances in EEG Electrodes
A Review of Select Other Technologies for EEG Electrodes
Combination Material-Based EEG Electrodes – Most Common and Affordable
Defibrillator Electrodes – A Perspective of Historical Design Evolution
Disposable EEG Electrodes – Advantages and Disadvantages
Growing Popularity of Non-Invasive Techniques to Hamper Prospects of Fetal Scalp Electrodes
New, Less-Damaging Soft Electrodes Improve Diagnostic Outcomes in Brain Function
Dissolvable Electrodes in Development for Brain Diagnosis
New Miniature Ear-borne Electrodes Enable Unobtrusive EEG Recording
Competitive Landscape
Cardiac Electrodes Market Limited to Few Specialty Players
Neurophysiology Segment Witnesses Consolidation

3. PRODUCT OVERVIEW

4. RECENT INDUSTRY ACTIVITY

Leonhard Lang Recalls Defective AED Electrodes
Cochlear Launches CI532 Slim Modiolar Electrode for Cochlear Nucleus Profile Implants
NeuroMetrix Launches Sport Electrode for Quell Pain Relief Technology
OBMedical Introduces LaborView Wireless Electrode System
RhythmLink Launches Enhancements for MR Conditional Electrodes
OncoSec Unveils Catheter-Based Electrodes for Oncology
RhythmLink Unveils New Line of Electrodes for Artifact-Free CT Imaging – Invista
WISE Launches Flexible Electrode for Use in Spinal Column
Mitek Launches New Suction Electrodes
Medtronic Acquires Covidien
Megadyne Rolls Out Mega Soft Universal Patient Return Electrode
Orthoco Launches Dynarex Electrode Skin Preps
RhythmLink Rolls Out MR Conditional Webb and PressOn Electrodes
RhythmLink Launches PressOn Electrode

5. FOCUS ON SELECT PLAYERS

3M COMPANY (US)
Ambu A/S (Denmark)
C. R Bard, Inc. (US)
CONMED Corporation (US)
Leonhard Lang GmbH (Austria)
Medtronic Plc. (Ireland)
Natus Medical Incorporated (US)
Nikomed USA, Inc. (US)
Philips Healthcare (The Netherlands)
Prosurg, Inc. (US)
RhythmLink International, LLC (US)
Utah Medical Products, Inc. (US)
ZOLL Medical Corporation (US)

6. GLOBAL MARKET PERSPECTIVE

Table 9. World Recent Past, Current & Future Analysis for Medical Device Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 10. World Historic Review for Medical Device Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 11. World 14-Year Perspective for Medical Device Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 12. World Recent Past, Current & Future Analysis for Blood Gas Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual

Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 13. World Historic Review for Blood Gas Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 14. World 14-Year Perspective for Blood Gas Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 15. World Recent Past, Current & Future Analysis for Defibrillator Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 16. World Historic Review for Defibrillator Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 17. World 14-Year Perspective for Defibrillator Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 18. World Recent Past, Current & Future Analysis for ECG Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 19. World Historic Review for ECG Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 20. World 14-Year Perspective for ECG Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 21. World Recent Past, Current & Future Analysis for EEG/EMG/ENG Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 22. World Historic Review for EEG/EMG/ENG Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 23. World 14-Year Perspective for EEG/EMG/ ENG Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 24. World Recent Past, Current & Future Analysis for Electrosurgical Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 25. World Historic Review for Electrosurgical Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 26. World 14-Year Perspective for Electrosurgical Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 27. World Recent Past, Current & Future Analysis for Ion Selective Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan),

Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 28. World Historic Review for Ion Selective Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 29. World 14-Year Perspective for Ion Selective Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 30. World Recent Past, Current & Future Analysis for pH Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 31. World Historic Review for pH Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 32. World 14-Year Perspective for pH Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 33. World Recent Past, Current & Future Analysis for Pacemaker Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 34. World Historic Review for Pacemaker Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand

for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 35. World 14-Year Perspective for Pacemaker Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 36. World Recent Past, Current & Future Analysis for TENS Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 37. World Historic Review for TENS Electrodes by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 38. World 14-Year Perspective for TENS Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

III. MARKET

1. THE UNITED STATES

A. Market Analysis

Current & Future Analysis

Opportunities in EEG/EMG Market

FDA Re-Classifies Pacemaker Electrodes as High Risk Devices

FDA Exempts Clearance Requirement for ECG Electrodes

FDA Standards for External Defibrillators and Electrodes

Strategic Corporate Developments

Select Key Players

B. Market Analytics

Table 39. US Recent Past, Current & Future Analysis for Medical Device Electrodes by

Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 40. US Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 41. US 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG / ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

2. CANADA

Market Analysis

Table 42. Canadian Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 43. Canadian Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 44. Canadian 14-Year Perspective for Medical Device Electrodes by Product

Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

3. JAPAN

Market Analysis

Table 45. Japanese Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 46. Japanese Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 47. Japanese 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4. EUROPE

Market Analysis

Table 48. European Recent Past, Current & Future Analysis for Medical Device Electrodes by Geographic Region - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 49. European Historic Review for Medical Device Electrodes by Geographic Region - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 50. European 14-Year Perspective for Medical Device Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 51. European Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 52. European Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 53. European 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4A. FRANCE

Market Analysis

Table 54. French Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently

Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022
(includes corresponding Graph/Chart)

Table 55. French Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 56. French 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4B. GERMANY

Market Analysis

Table 57. German Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 58. German Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 59. German 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS

Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4C. ITALY

A. Market Analysis

Current & Future Analysis

Strategic Corporate Development

B. Market Analytics

Table 60. Italian Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 61. Italian Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 62. Italian 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4D. THE UNITED KINGDOM

Market Analysis

Table 63. UK Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently

Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022
(includes corresponding Graph/Chart)

Table 64. UK Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 65. UK 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4E. SPAIN

Market Analysis

Table 66. Spanish Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 67. Spanish Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 68. Spanish 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS

Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4F. RUSSIA

Market Analysis

Table 69. Russian Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 70. Russian Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 71. Russian 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4G. REST OF EUROPE

A. Market Analysis

Current & Future Analysis

Strategic Corporate Development

Key Players

B. Market Analytics

Table 72. Rest of Europe Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective

Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 73. Rest of Europe Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 74. Rest of Europe 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC

Market Analysis

Table 75. Asia-Pacific Recent Past, Current & Future Analysis for Medical Device Electrodes by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 76. Asia-Pacific Historic Review for Medical Device Electrodes by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 77. Asia-Pacific 14-Year Perspective for Medical Device Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for China, India and Rest of Asia-Pacific Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 78. Asia-Pacific Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG

Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 79. Asia-Pacific Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 80. Asia-Pacific 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

5A. CHINA

Market Analysis

Table 81. Chinese Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 82. Chinese Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 83. Chinese 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes,

Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

5B. INDIA

Market Analysis

Table 84. Indian Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 85. Indian Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 86. Indian 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

5C. REST OF ASIA-PACIFIC

Market Analysis

Table 87. Rest of Asia-Pacific Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015

through 2022 (includes corresponding Graph/Chart)

Table 88. Rest of Asia-Pacific Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 89. Rest of Asia-Pacific 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

6. THE MIDDLE EAST & AFRICA

Market Analysis

Table 90. Middle East & African Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 91. Middle East & African Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 92. Middle East & African 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

7. LATIN AMERICA

Market Analysis

Table 93. Latin American Recent Past, Current & Future Analysis for Medical Device Electrodes by Geographic Region - Brazil and Rest of Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 94. Latin American Historic Review for Medical Device Electrodes by Geographic Region - Brazil and Rest of Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 95. Latin American 14-Year Perspective for Medical Device Electrodes by Geographic Region - Percentage Breakdown of Dollar Sales for Brazil and Rest of Latin America Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

Table 96. Latin American Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG / ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 97. Latin American Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 98. Latin American 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

7A. BRAZIL

Market Analysis

Table 99. Brazilian Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 100. Brazilian Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 101. Brazilian 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

7B. REST OF LATIN AMERICA

Market Analysis

Table 102. Rest of Latin American Recent Past, Current & Future Analysis for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 103. Rest of Latin American Historic Review for Medical Device Electrodes by Product Segment - Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes,

EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 104. Rest of Latin American 14-Year Perspective for Medical Device Electrodes by Product Segment - Percentage Breakdown of Dollar Sales for Blood Gas Electrodes, Defibrillator Electrodes, ECG Electrodes, EEG/EMG/ENG Electrodes, Electrosurgical Electrodes, Ion-selective Electrodes, pH Electrodes, Pacemaker Electrodes, and TENS Electrodes Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE

Total Companies Profiled: 95 (including Divisions/Subsidiaries - 105)

The United States (73)

Canada (3)

Japan (1)

Europe (26)

France (1)

Germany (6)

The United Kingdom (3)

Italy (3)

Spain (1)

Rest of Europe (12)

Asia-Pacific (Excluding Japan) (2)

I would like to order

Product name: Electrodes for Medical Devices: Market Research Report

Product link: <https://marketpublishers.com/r/EBD84CEA1A8EN.html>

Price: US\$ 5,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EBD84CEA1A8EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970