

2018 Instrumentation & Sensors Research Review

<https://marketpublishers.com/r/2CDE472F63EEN.html>

Date: February 2019

Pages: 206

Price: US\$ 1,250.00 (Single User License)

ID: 2CDE472F63EEN

Abstracts

REPORT SCOPE

Instrumentation and sensor devices are the backbone of technology industry. Internet of things (IoT), industrial internet of things, smart cities and smart buildings are current technological buzzwords. These technologies have one thing in common, they are dependent on instruments and sensors. The fusion of different instrumentation and sensor devices is necessary to attain desired outcomes, making this industry a major area for future development of various aspects of daily life.

The use of sensors has expanded beyond the traditional fields of temperature, pressure and flow measurement. The technological advances and the use of micromachining and microelectromechanical systems (MEMS) technologies in microsensors are allowing manufacturers to use more sensors and in turn increasing number of sensors on a microscopic scale. In most cases, microsensors can reach significantly higher speeds and sensitivity compared with macroscopic sensors.

Contents

CHAPTER 1 FOREWORD

CHAPTER 2 ULTRAVIOLET (UV) DISINFECTION EQUIPMENT: MAJOR APPLICATIONS AND GLOBAL MARKETS (IAS037D)

Introduction
Study Goals and Objectives
Reasons for Doing the Study
Intended Audience
Scope and Format of Report
Methodology
Information Sources
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports
Summary
Applications
Regulator Interest
Challenges and Breakthroughs
Overview of UV Disinfection
Definition
Overview
Applications for UV
Factors Driving Growth of the UV Equipment Market
UV Equipment
How UV Works
Maintenance Requirements for UV Units
Trends and Technical Developments

CHAPTER 3 PORTABLE GAS DETECTION SYSTEMS: GLOBAL MARKETS (IAS108B)

Introduction
Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources

Methodology
Recent Developments
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports
Summary
Market and Technology Background
Types of Gases Detected
Technologies Used in Portable Gas Detectors
Industrial Applications of Portable Gas Detectors
Collection Methods Used in Portable Gas Detectors
Gas Detection Applications
Market for Portable Gas Detectors
Global Market for Portable Gas Detectors, by Gas Detection Type

CHAPTER 4 REMOTE SENSING TECHNOLOGIES AND GLOBAL MARKETS (IAS022F)

Introduction
Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports
Summary
Market and Technology Background
Remote Sensing Technology
Passive Remote Sensing
Active Remote Sensing
Market Breakdown, by Platform

CHAPTER 5 SATELLITE COMMUNICATIONS: GLOBAL MARKET THROUGH 2022 (IAS075B)

Introduction
Study Goals and Objectives

Reasons for Doing This Study
Scope of Report
Research Methodology
Intended Audience
Information Sources
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports
Summary
Market and Technology Background
Market Definition and Evolution of Satellite Communication Technology
Future Outlook and Expectations
Key Developments in the Field of Satellite Communication Technology
Value Chain
Market Breakdown, by Technology
Introduction
Market Dynamics
Satellite Telemetry
Automatic Identification System (AIS)
Very Small Aperture Terminal (VSAT)

CHAPTER 6 MINING AUTOMATION TECHNOLOGIES AND GLOBAL MARKETS (IAS119A)

Introduction
Study Goals and Objectives
Reasons for Doing This Study
Intended Audience
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports
Summary
Market and Technology Background
Mining Automation
Automated Mining: A Brief History
Mining Types

Automated Mining Technologies and Classifications: Automation Levels
Automated Mining Technologies and Classifications: Equipment and Service Categories
Benefits of Automated Mining Technologies
Drawbacks of Automated Mining Technologies
Technologies Not Considered
Automated Mining: Global Market Summary
Introduction to Automated Mining Markets
Scope of the Market Analysis
Global Market for Automated Mining Technologies

CHAPTER 7 GLOBAL MARKETS FOR AUTOMOTIVE SENSOR TECHNOLOGIES (IAS018G)

Introduction
Overview
Study Goals and Objective
Reasons for Doing the Study
Intended Audience
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports
Summary
Technology
Overview
Definition of the Industry
Concepts in the Industry
Importance of the Industry
Types of Automotive Vehicles
Types of Sensors Based on Technology
Sensor Applications in the Automobile Industry
Market for Sensor Applications in the Automobile Industry
Classification of Sensors Based on Application
Developments in Automotive Sensors
Developments in Automobile Electronics
Developments in Automobile Sensor Technologies
Lifecycle Assessment of Sensors

Government Regulations
Market, by Technology
Global Market for Automotive Sensors
Global Market for Automotive Sensors, by Technology

CHAPTER 8 BIOSENSORS AND NANOSENSORS: GLOBAL MARKETS AND TECHNOLOGIES (IAS128A)

Introduction
Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports
Summary
Market and Technology Background
Features of Biosensors
Types of Biosensors
Market Breakdown, by Technology Type
Biosensors
Nanosensors
Biosensor and Nanosensor Manufacturing

List Of Tables

LIST OF TABLES

Table 1: Categories of UV Light

Table 2: Timeline of UV Technology

Table 3: Applications for UV

Table 4: Global Market for UV Equipment, by Component Type, Through 2023

Table 5: UV Lamp Types

Table 6: Typical Characteristics of Mercury UV Lamps

Table 7: Comparison of Magnetic and Electronic Ballasts

Table 8: UV Dosage Required for 99.9% Disinfection of Various Bacteria

Table 9: UV Dosage Required for 99.9% Disinfection of Various Mold Spores

Table 10: UV Dosage Required For 99.9% Disinfection of Various Protozoa and Algae

Table 11: UV Dosage Required for 99.9% Disinfection of Various Viruses

Table 12: UV Dosage Required for 99.9% Disinfection of Various Yeasts

Table 13: IMO Standards for Discharged Ballast Water

Table 14: Oxidation Potential of Common Oxidants Used in Water Treatment

Table 15: Oxygen Levels

Table 16: Carbon Dioxide Levels

Table 17: Carbon Monoxide Levels

Table 18: Nitrogen Oxide Levels

Table 19: Nitrogen Dioxide Levels

Table 20: Sulfur Dioxide Levels

Table 21: Hydrogen Sulfide Levels

Table 22: Global Market for Portable Gas Detectors, Through 2023

Table 23: Global Market for Portable Gas Detectors, by Gas Detection Type, Through 2023

Table 24: Key Trends in Remote Sensing

Table 25: Global Market for Remote Sensing, by Platform, Through 2023

Table 26: Global Market Share for Remote Sensing, by Platform, 2017

Table 27: Global Satellite Communication Technology Market for Satellite Telemetry, by Communication Network, Through 2022

Table 28: Global Satellite Communication Technology Market for Satellite Telemetry, by Industry, Through 2022

Table 29: Global Satellite Communication Technology Market for Satellite Telemetry, by Region, Through 2022

Table 30: Global Satellite Communication Technology Market for Automatic Identification System, by Communication Network, Through 2022

- Table 31: Global Satellite Communication Technology Market for Automatic Identification System, by Industry, Through 2022
- Table 32: Global Satellite Communication Technology Market for Automatic Identification System, by Region, Through 2022
- Table 33: Global Satellite Communication Technology Market for Very Small Aperture Terminals, by Communication Network, Through 2022
- Table 34: Global Satellite Communication Technology Market for Very Small Aperture Terminals, by Industry, Through 2022
- Table 35: Global Satellite Communication Technology Market for Very Small Aperture Terminals, by Region, Through 2022
- Table 36: Automated Mining Technology Categories Considered in This Study
- Table 37: Levels of Mining Equipment Automation
- Table 38: Mining Automation Information Sources Included in This Study
- Table 39: Automated Mining Technology Categories Considered in This Study
- Table 40: Mining Equipment Automation Levels
- Table 41: Automated Mining Equipment and Service Categories
- Table 42: Global Market for Automated Mining Technologies, by Region, Through 2023
- Table 43: North American Market for Automated Mining Technologies, by Country, Through 2023
- Table 44: European Market for Automated Mining Technologies, by Country, Through 2023
- Table 45: Asia-Pacific Market for Automated Mining Technologies, by Country, Through 2023
- Table 46: South American Market for Automated Mining Technologies, by Country, Through 2023
- Table 47: Global Market for Automated Mining Equipment, by Technology, Through 2023
- Table 48: Global Market for Automated Mining Equipment, by Application, Through 2023
- Table 49: Benefits Offered, by IoT Sensors in Automobile Application
- Table 50: Automobile Applications of MEMS Sensors, by Type
- Table 51: Sensors Used for Various Functions in the Automobile Industry
- Table 52: Sensors in Power Train Application
- Table 53: Sensors in Ignition Control Applications
- Table 54: Sensors in Fuel Control Application
- Table 55: Sensors in Emission Control Application
- Table 56: Sensors in Engine Management Applications
- Table 57: Sensors in Speed and Torque Measurement Applications
- Table 58: Sensors in Transmission Control Applications

- Table 59: Sensors in Vehicle Control Applications
- Table 60: Sensors in Brake Control Applications
- Table 61: Sensors in Steering Control Applications
- Table 62: Sensors in Suspension Control Applications
- Table 63: Sensors in Tire and Wheel Control Applications
- Table 64: Sensors in Comfort and Convenience Applications
- Table 65: Sensors in Vehicle Environment Applications
- Table 66: Sensors in Vehicle Lighting Control Applications
- Table 67: Sensors in Driver Convenience Applications
- Table 68: Sensors in Vehicle Safety and Security Applications
- Table 69: Sensors in Vehicle Safety Applications
- Table 70: Sensors in Vehicle Collision Control Applications
- Table 71: Sensors in Vehicle Security Applications
- Table 72: Sensors in Road Visibility Applications
- Table 73: Sensors in Alternate Fuel Vehicle Applications
- Table 74: Global Market for Automotive Sensors, by Type, Through 2023
- Table 75: Key Trends in Biosensors and Nanosensors
- Table 76: Global Market for Biosensors and Nanosensors, by Technology Type, Through 2023
- Table 77: Global Market Shares for Biosensors and Nanosensors, by Technology Type, 2017

List Of Figures

LIST OF FIGURES

Figure 1: Global Market Shares of Portable Gas Detectors, by Gas Detection Type, 2018 and 2023

Figure 2: Global Market for Remote Sensing, by Platform, 2017-2023

Figure 3: Global Market Share for Remote Sensing, by Platform, 2017

Figure 4: Value Chain for Satellite Communication Technology

Figure 5: Global Market for Satellite Communications, by Technology

Figure 6: Global Satellite Communication Technology Market for Satellite Telemetry, by Communication Network, 2016-2022

Figure 7: Global Satellite Communication Technology Market for Satellite Telemetry, by Industry, 2016-2022

Figure 8: Global Satellite Communication Technology Market for Satellite Telemetry, by Region, 2016-2022

Figure 9: Global Satellite Communication Technology Market for Automatic Identification System, by Communication Network, 2016-2022

Figure 10: Global Satellite Communication Technology Market for Automatic Identification System, by Industry, 2016-2022

Figure 11: Global Satellite Communication Technology Market for Automatic Identification System, by Region, 2016-2022

Figure 12: Global Satellite Communication Technology Market for Very Small Aperture Terminals, by Communication Network, 2016-2022

Figure 13: Global Satellite Communication Technology Market for Very Small Aperture Terminals, by Industry, 2016-2022

Figure 14: Global Satellite Communication Technology Market for Very Small Aperture Terminals, by Region, 2016-2022

Figure 15: Open-Pit Surface Mining: Coeur Rochester Silver Mine in the Humboldt River Basin, Nevada, 2005

Figure 16: Underground Mining: Carlsbad, New Mexico, 2016

Figure 17: Dragline for Removing Overburden at a Surface Mine

Figure 18: Longwall Mining Head for an Underground Coal Seam, 2013

Figure 19: Continuous Mining System

Figure 20: Mining Truck at a Surface Mining Site

Figure 21: Global Market for Automated Mining Technologies, by Region, 2017-2023

Figure 22: North American Market for Automated Mining Technologies, by Country, 2017-2023

Figure 23: European Market for Automated Mining Technologies, by Country,

2017-2023

Figure 24: Asia-Pacific Market for Automated Mining Technologies, by Country, 2017-2023

Figure 25: South American Market for Automated Mining Technologies, by Country, 2017-2023

Figure 26: Global Market for Automated Mining Equipment, by Technology, 2017-2023

Figure 27: Global Market for Automated Mining Equipment, by Application, 2017-2023

Figure 28: Global Market for Automotive Sensors, by Type, 2017-2023

Figure 29: Global Market for Biosensors and Nanosensors, by Technology Type, 2017-2023

Figure 30: Global Market Shares for Biosensors and Nanosensors, by Technology Type, 2017

Figure 31: Sacrificial Layer Etching

Figure 32: LIGA Process

Figure 33: Isotropic vs. Anisotropic Etching

I would like to order

Product name: 2018 Instrumentation & Sensors Research Review

Product link: <https://marketpublishers.com/r/2CDE472F63EEN.html>

Price: US\$ 1,250.00 (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/2CDE472F63EEN.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