

Wireless Sensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-05-29 | 141 pages | IMARC Group

AVAILABLE LICENSES:

- Electronic (PDF) Single User \$2499.00
- Five User Licence \$3499.00
- Enterprisewide License \$4499.00

Report description:

Market Overview:

The global wireless sensors market size reached US\$ 10.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 28.3 Billion by 2028, exhibiting a growth rate (CAGR) of 18.2% during 2023-2028.

Wireless sensors are standard measurement tools that are equipped with transmitters that can convert signals from process control instruments into a radio transmission. Originally conceptualized for military use, these networks now have wide ranging applications in civilian, industrial, and consumer markets. These extend from preventing trespassing to monitoring building strength and evaluating water quality to measuring individual heart rate.

Wireless sensors are also used in areas that are difficult to access due to severe environment conditions such as high temperature, pH, pressure, etc. With the help of wireless sensors, operators can constantly supervise processes in extreme environments and report the information back to an operator in a monitoring facility that may be located at a safe distance away. They are also convenient for acquiring data in difficult to access locations. The radio signal is interpreted by a receiver that further converts the wireless signal into a particular, required output, such as an analog current or data analysis via computer software.

Over the past few years, various new technological advancements have been made on account of which there has been a significant improvement in the overall performance of wireless sensors. This has given a rise to the use of these sensors across numerous end-use industries such as food and beverage, automation, and defence. Wireless sensors are also utilised for various purposes like forest fire detection, water management and flood detection. They are also beneficial for monitoring greenhouse gas emission as well as pest and disease detection. Furthermore, wireless sensors generate a significant quantity of data that can yield actionable insights, catalysing continuous process improvement.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Implementation at scale, nevertheless, is not without its roadblocks. The development of cost effective, ubiquitous sensor networks primary depends upon the speed and quality of technological advancement, alternate methods of power supply, and the advancement of technical regulations and standards.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global wireless sensors market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product type, technology and end-use.

Breakup by Product Type:

- Temperature Sensors
- Pressure Sensors
- Level Sensors
- Flow Sensors
- Humidity Sensors
- Biosensors
- Gas Sensors
- Surveillance and Security Sensors
- Motion and Positioning Sensors
- Others
-

Based on the product type, the market has been segmented into temperature sensors, pressure sensors, level sensors, flow sensors, humidity sensors, biosensors, gas sensors, surveillance and security sensors, motion and positioning sensors, and other segments.

Breakup by Technology:

- Bluetooth
- Wi-Fi and WLAN
- Zigbee
- WirelessHART
- RFID
- EnOcean
- Others
-

Based on the technology, the market has been segmented into Bluetooth, Wi-Fi and WLAN, Zigbee, WirelessHART, RFID, EnOcean and others.

Breakup by End-Use:

- Industrial
- Medical
- Energy
- Defense
- Agriculture

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

□Office and Residential

□Others

□

On the basis of end-use, the industrial segment represents the largest segment. Other major segments include medical, energy, defense, agriculture, office and residential, and others.

Breakup by Region:

□North America

□Asia Pacific

□Europe

□Middle East and Africa

□Latin America

□

Region-wise, the market has been segmented into North America, Asia Pacific, Europe, Middle East and Africa, and Latin America.

Competitive Landscape:

The competitive landscape of the market has also been examined with some of the key players being ABB Ltd, STMicroelectronics, Texas Instruments Incorporated, Freescale Semiconductors Inc, Rockwell Automation Inc., Emerson Electric Co, Honeywell International Inc., Schneider Electric SA, Endress+Hauser SA, Yokogawa Electric Corporation, Siemens AG and General Electric.

This report provides a deep insight into the global wireless sensors market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the wireless sensors industry in any manner.

Key Questions Answered in This Report:

What was the size of the global wireless sensors market in 2022?

What is the expected growth rate of the global wireless sensors market during 2023-2028?

What are the key factors driving the global wireless sensors market?

What has been the impact of COVID-19 on the global wireless sensors market?

What is the breakup of the global wireless sensors market based on the product type?

What is the breakup of the global wireless sensors market based on the technology?

What is the breakup of the global wireless sensors market based on the end-use?

What are the key regions in the global wireless sensors market?

Who are the key players/companies in the global wireless sensors market?

Table of Contents:

1 Preface

2 Scope and Methodology

2.1 Objectives of the Study

2.2 Stakeholders

2.3 Data Sources

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 2.3.1 Primary Sources
- 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Wireless Sensors Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Breakup by Product Type
 - 5.5 Market Breakup by Technology
 - 5.6 Market Breakup by End-Use
 - 5.7 Market Breakup by Region
 - 5.8 Market Forecast
 - 5.9 SWOT Analysis
 - 5.9.1 Overview
 - 5.9.2 Strengths
 - 5.9.3 Weaknesses
 - 5.9.4 Opportunities
 - 5.9.5 Threats
 - 5.10 Value Chain Analysis
 - 5.10.1 Overview
 - 5.10.2 Research and Development
 - 5.10.3 Raw Material Procurement
 - 5.10.4 Manufacturing
 - 5.10.5 Marketing
 - 5.10.6 Distribution
 - 5.10.7 End-Use
 - 5.11 Porters Five Forces Analysis
 - 5.11.1 Overview
 - 5.11.2 Bargaining Power of Buyers
 - 5.11.3 Bargaining Power of Suppliers
 - 5.11.4 Degree of Competition
 - 5.11.5 Threat of New Entrants
 - 5.11.6 Threat of Substitutes
 - 5.12 Price Analysis
 - 5.12.1 Key Price Indicators
 - 5.12.2 Price Structure
- 6 Market Breakup by Product Type
 - 6.1 Temperature Sensors
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.2 Pressure Sensors
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Level Sensors
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
- 6.4 Flow Sensors
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Humidity Sensors
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast
- 6.6 Biosensors
 - 6.6.1 Market Trends
 - 6.6.2 Market Forecast
- 6.7 Gas Sensors
 - 6.7.1 Market Trends
 - 6.7.2 Market Forecast
- 6.8 Surveillance and Security Sensors
 - 6.8.1 Market Trends
 - 6.8.2 Market Forecast
- 6.9 Motion and Positioning Sensors
 - 6.9.1 Market Trends
 - 6.9.2 Market Forecast
- 6.10 Others
 - 6.10.1 Market Trends
 - 6.10.2 Market Forecast
- 7 Market Breakup by Technology
 - 7.1 Bluetooth
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Wi-Fi and WLAN
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Zigbee
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 WirelessHART
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
 - 7.5 RFID
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
 - 7.6 EnOcean
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
 - 7.7 Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.7.1 Market Trends
- 7.7.2 Market Forecast
- 8 Market Breakup by End-Use
 - 8.1 Industrial
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2 Medical
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
 - 8.3 Energy
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
 - 8.4 Defense
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
 - 8.5 Agriculture
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast
 - 8.6 Office and Residential
 - 8.6.1 Market Trends
 - 8.6.2 Market Forecast
 - 8.7 Others
 - 8.7.1 Market Trends
 - 8.7.2 Market Forecast
- 9 Market Breakup by Region
 - 9.1 North America
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
 - 9.2 Asia Pacific
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
 - 9.3 Europe
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
 - 9.4 Middle East and Africa
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
 - 9.5 Latin America
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast
- 10 Manufacturing Process
 - 10.1 Product Overview
 - 10.2 Raw Material Requirements
 - 10.3 Manufacturing Process
 - 10.4 Key Success and Risk Factors
- 11 Competitive Landscape
 - 11.1 Market Structure

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

11.2 Key Players

11.3 Profiles of Key Players

11.3.1 ABB Ltd

11.3.2 STMicroelectronics

11.3.3 Texas Instruments Incorporated

11.3.4 Freescale Semiconductors Inc

11.3.5 Rockwell Automation Inc.

11.3.6 Emerson Electric Co

11.3.7 Honeywell International Inc.,

11.3.8 Schneider Electric SA

11.3.9 Endress+Hauser SA

11.3.10 Yokogawa Electric Corporation

11.3.11 Siemens AG

11.3.12 General Electric

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Wireless Sensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-05-29 | 141 pages | IMARC Group

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Electronic (PDF) Single User	\$2499.00
	Five User Licence	\$3499.00
	Enterprisewide License	\$4499.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-05-06"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com