

Global Sensor Testing Market Size study & Forecast, by Offering (Hardware, Software), by Sensor Type (Analog Sensors, Digital Sensors), by Application (Automotive, Consumer Electronics, Aerospace, Healthcare, Industrial, Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G01DE28EE02AEN.html>

Date: February 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G01DE28EE02AEN

Abstracts

Global Sensor Testing Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% during the forecast period 2023-2030. Sensor testing is the process of evaluating and verifying the performance of sensors. Sensors are devices that detect and measure physical properties or changes in the environment and convert this information into electrical signals or other readable forms. Sensor testing is crucial to ensure the accuracy, reliability, and functionality of sensors in various applications. The key factors driving the market growth are increasing adoption of sensors, rising emphasis on quality assurance, expanding IoT and industrial automation, and growing demand for wearable devices and consumer electronics that are anticipated to support the market growth during the forecast period 2023-2030.

Additionally, the increasing popularity of wearable devices and consumer electronics, which often incorporate various sensors, contributes to the demand for sensor testing to guarantee the performance and reliability of these devices. Thus, the growing adoption of wearable devices is anticipated to support the market growth. According to Statista, in 2020, the number of smart wearable users in the United States was 64.2 million users and the number is anticipated to reach 74.9 million users by 2024. Moreover, the surging use of sensors in hybrid and autonomous vehicles, and the rising adoption of predictive maintenance techniques by manufacturing firms are anticipated to create

lucrative opportunities for the market over the forecast year. However, the high cost of sensor testing equipment, and rapidly evolving sensor technologies stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Sensor Testing Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing adoption of sensors across industries, growth in automotive and aerospace sectors, and the presence of key market players. Whereas, the Asia Pacific is expected to grow with the fastest growth rate over the forecast period, owing to factors such as the rising adoption of IoT devices, growing awareness of quality assurance, and ongoing advancements in sensor technologies, such as the development of more complex and sensitive sensors.

Major market player included in this report are:

TE Connectivity Ltd.

National Instruments Corp.

Keysight Technologies, Inc.

Fluke Corporation

Rohde & Schwarz GmbH & Co. KG

Teradyne Inc.

Omega Engineering, Inc.

Advantest Corporation

Pepperl+Fuchs SE

Anritsu Corporation

Recent Developments in the Market:

In April 2023, Keysight Technologies, Inc. has introduced an advanced real-time spectrum analysis (RTSA) solution with a remarkable maximum RTSA

bandwidth of 2 GHz. This cutting-edge software is seamlessly compatible with the Keysight N9042B UXA Signal Analyzer. By employing this RTSA solution, operators in satellite networks can efficiently monitor signals and identify interference. This capability empowers satellite network operators to maintain optimal service quality (QoS) for their users, ensuring a superior user experience.

Global Sensor Testing Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Offering, Sensor Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Offering:

Hardware

Software

By Sensor Type:

Analog Sensors

Digital Sensors

By Application:

Automotive

Consumer Electronics

Aerospace

Healthcare

Industrial

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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