

# **Test and Measurement Equipment Market Report by Product (General Purpose Test Equipment (GPTE), Mechanical Test Equipment (MTE)), Service Type (Calibration Services, Repair Services/After-Sales Services), End Use Industry (Automotive and Transportation, Aerospace and Defense, IT and Telecommunication, Education, Semiconductor and Electronics, and Others), and Region 2024-2032**

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## **Abstracts**

The global test and measurement equipment market size reached US\$ 25.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 37.4 Billion by 2032, exhibiting a growth rate (CAGR) of 4.1% during 2024-2032.

Test and measurement equipment refers to various tools used to measure, analyze, display, test and record electrical data. These tools generate electrical signals and capture the responses from multiple devices in the testing phase to identify faults and ensure the proper functioning of the equipment. Some of the commonly used test and measurement equipment include oscilloscopes, ammeter, voltmeter, wattmeter, digital multimeters and spectrum analyzers. They are designed to indicate a specific parameter, such as length, weight, current, voltage and temperature and indicate the presence or absence of specific physical characteristics.

Rapid industrialization, along with significant growth in the electronics industry, represents one of the key factors creating a positive impact on the industry growth. Test and measurement equipment are used for checking defects in high-performance and power-efficient consumer electronics and semiconductors during manufacturing.

Consequently, increasing utilization of test and measurement equipment for regular testing and diagnosing any faults in aircraft, helicopters and other machines is also driving the market growth. They are also used for machine control, factory automation and establishing remote sensor connections in the automotive and transportation sectors. Various technological advancements, such as the integration of connected devices with the Internet of Things (IoT) and the development of machine-to-machine (M2M) interaction systems, are acting as other growth-inducing factors. These systems offer portable and embedded testing and measurement solutions with remote troubleshooting capabilities and interactive interfaces. Other factors, including improvements in the networking and communications infrastructure, along with the increasing automation of laboratory instruments, are expected to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global test and measurement equipment market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product, service type and end use industry.

#### Breakup by Product:

##### General Purpose Test Equipment (GPTE)

Oscilloscopes

Signal Generators

Multimeters

Logic Analyzers

Spectrum Analyzers

Bert (Bit Error Rate Test)

Network Analyzers

Others

##### Mechanical Test Equipment (MTE)

Non-Destructive Test Equipment

Machine Vision Inspection

Machine Condition Monitoring

#### Breakup by Service Type:

Calibration Services

Repair Services/After-Sales Services

**Breakup by End Use Industry:**

Automotive and Transportation  
Aerospace and Defense  
IT and Telecommunication  
Education  
Semiconductor and Electronics  
Others

**Breakup by Region:**

North America  
United States  
Canada  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

**Competitive Landscape:**

The report has also analysed the competitive landscape of the market with some of the

key players being Advantest Corporation, Anritsu Corporation, EXFO Inc., Fortive, Keysight Technologies, Inc., National Instruments Corporation, Rohde & Schwarz GmbH & Co. KG, Teledyne Technologies Incorporated, Texas Instruments Incorporated, VIAVI Solutions Inc., and Yokogawa Electric Corporation.

### Key Questions Answered in This Report

1. How big is the global test and measurement equipment market?
2. What is the expected growth rate of the global test and measurement equipment market during 2024-2032?
3. What are the key factors driving the global test and measurement equipment market?
4. What has been the impact of COVID-19 on the global test and measurement equipment market?
5. What is the breakup of the global test and measurement equipment market based on the product?
6. What is the breakup of the global test and measurement equipment market based on the service type?
7. What is the breakup of the global test and measurement equipment market based on the end use industry?
8. What are the key regions in the global test and measurement equipment market?
9. Who are the key players/companies in the global test and measurement equipment market?

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