

Test and Measurement Equipment Market to Reach USD 65 Billion by 2035, Growth Driven by 5G Expansion and AI Integration

Global test and measurement equipment market to hit USD 65B by 2035, driven by 5G rollout, manufacturing automation, and precision testing demand.

NEWARK, DE, UNITED STATES,
November 7, 2025 /EINPresswire.com/
-- The global [test and measurement equipment market](#) is projected to grow

from USD 37.7 billion in 2025 to USD

65 billion by 2035, expanding at a steady 5.6% CAGR, according to the latest analysis by Future Market

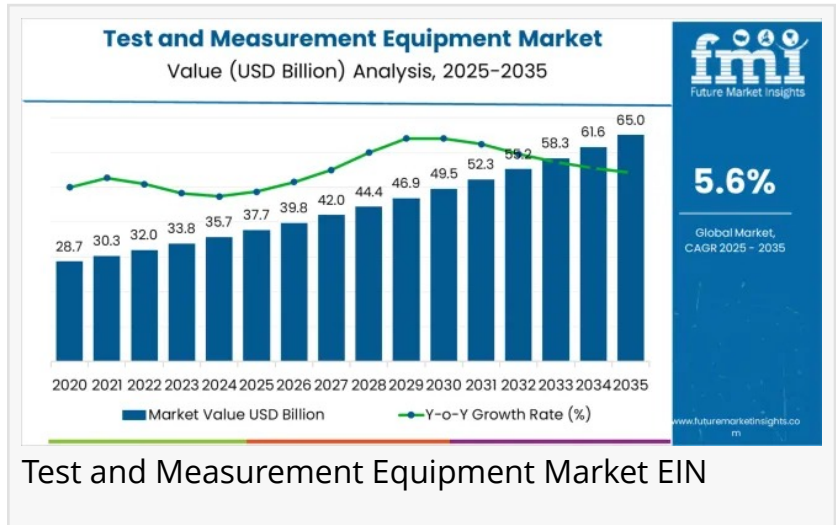
Insights, a Bronze Stevie Award-winning research firm for excellence in market intelligence. The study reveals how advancements in 5G networks, precision manufacturing, and AI-integrated automation are transforming global testing and measurement applications across industries.

Steady Expansion Fueled by Technology Modernization

Between 2025 and 2030, the market is expected to climb from USD 37.7 billion to USD 49.2 billion, adding USD 11.5 billion in new value—roughly 42% of total decade growth. This phase marks widespread adoption of general-purpose test equipment, which currently accounts for 62.4% of global share. Demand is driven by the growing need for accurate, automated testing in electronics manufacturing, telecommunications, and automotive sectors.

From 2030 to 2035, the market will add another USD 15.8 billion, reaching USD 65 billion, as next-generation wireless testing, IoT platform integration, and AI-enabled measurement systems become industry norms.

“Testing technology is no longer a back-end function,” says a senior analyst at FMI. “It’s now the backbone of industrial precision, supporting next-gen telecom infrastructure and semiconductor performance validation.”



Asia Pacific Leads Global Adoption

The Asia Pacific region will remain the dominant growth hub, supported by the rapid industrialization of India and China.

- India is forecast to grow at 8.3% CAGR, the fastest worldwide, fueled by government-led Make in India programs and advanced electronics manufacturing clusters in Mumbai, Delhi, and Bengaluru.
- China follows with 6.3% CAGR, driven by large-scale modernization of manufacturing facilities and heavy investment in semiconductor fabrication and telecommunications infrastructure.
- Developed economies such as the U.S. (3.1%), Spain (4.2%), and U.K. (2.2%) maintain steady growth, supported by established industrial bases and mature quality control regulations.

By 2035, Europe's market will grow from USD 11.3 billion to USD 18.7 billion, led by Germany (26.4% share), U.K. (20.8%), and France (17.3%), reflecting advanced industrial integration of testing solutions into manufacturing ecosystems.

Calibration Services Dominate the Market

Among services, calibration solutions hold a commanding 67.4% share of the market in 2025, supported by the demand for precision accuracy, reliability, and automated measurement validation. These services enable manufacturing plants to achieve 90–95% operational effectiveness in quality control, significantly reducing testing errors and improving throughput.

The after-sales services segment complements this with rising demand for lifecycle support and technical maintenance—especially as equipment complexity increases in advanced facilities.

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General-Purpose Equipment Drives Market Leadership

General-purpose testing equipment remains the market's cornerstone, accounting for over 62% of total revenue, as industries shift toward multi-functional, software-driven testing platforms. These systems are critical for electronics manufacturing, where precision, repeatability, and speed are key to performance validation.

Advanced test systems—equipped with AI algorithms and automation integration—are now enabling manufacturers to optimize performance metrics and reduce manual measurement variability, particularly in semiconductor and telecom infrastructure testing.

5G, AI, and Industrial Automation: Core Market Catalysts

Three major forces are shaping market expansion:

- 5G Rollout: Next-gen networks demand high-frequency test systems that ensure data transmission reliability and device compatibility at scale.
- Manufacturing Modernization: As factories transition toward Industry 4.0, demand rises for intelligent measurement tools that ensure end-to-end process control.
- AI Integration: Automated diagnostic testing powered by AI reduces human error, accelerates system verification, and enhances predictive maintenance accuracy.
- Despite its robust outlook, the market faces cost-related challenges for specialized systems and performance limitations under extreme operational environments—factors that may impact small and mid-sized manufacturers in cost-sensitive economies.

Market Opportunities and Strategic Growth Pathways

The test and measurement equipment industry is poised to add USD 27.3 billion in new value by 2035, with expansion concentrated across seven opportunity pathways:

- General-Purpose Equipment Optimization: USD 6.8B
- Asian Manufacturing Expansion: USD 5.3B
- Electronics Market Integration: USD 4.5B
- Calibration and Precision Services: USD 3.8B
- 5G and Telecom Testing: USD 3.5B
- Industrial Automation Solutions: USD 3.5B
- Mechanical and Advanced Materials Testing: USD 2.9B

These pathways underline a decade-long shift from traditional test systems toward data-integrated, cloud-enabled platforms capable of real-time analytics, remote diagnostics, and continuous calibration.

Competitive Landscape

The market remains moderately consolidated, with 20–25 key players accounting for approximately 40% of global share.

- Market leaders such as Keysight Technologies, Agilent Technologies, and Tektronix maintain a global presence through advanced precision systems and strong R&D pipelines.
- Innovators like Rohde & Schwarz, National Instruments, and Fluke Corporation differentiate through agile product cycles and cutting-edge software integration.
- Regional specialists including Yokogawa Electric, Anritsu, and VIAVI Solutions strengthen market competitiveness by focusing on specialized wireless and industrial applications.

This mix of global and regional expertise continues to accelerate the industry's innovation pace, driving forward a new era of intelligent testing ecosystems.

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