

Global Circuit Monitoring Market Size Study & Forecast, by Type (Modular Circuit Monitoring, Others (Branch Circuit & Multi Circuit)) and End Use (Residential, Commercial, Industrial, Data Centers) and Regional Forecasts 2025-2035

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Abstracts

The Global Circuit Monitoring Market is valued at approximately USD 0.68 billion in 2024 and is projected to grow at a compound annual growth rate (CAGR) of over 4.70% during the forecast period of 2025 to 2035. Circuit monitoring systems, which are increasingly becoming integral to modern electrical infrastructure, provide real-time visibility into power usage and quality across various end-use sectors. These systems help operators detect inefficiencies, prevent downtime, and optimize energy management—crucial features in an age defined by high power dependency and sustainability mandates. As commercial and industrial facilities scale up operations while simultaneously aiming to reduce their carbon footprint, the need for intelligent circuit monitoring tools has grown exponentially. The trend toward smart buildings, energy-efficient infrastructure, and the rising complexity of modern electrical grids is further propelling demand in the market.

One of the primary drivers for this sector is the explosive growth in energy consumption, particularly within data centers and industrial manufacturing hubs, where real-time monitoring is essential for operational efficiency and regulatory compliance. The increasing push from governments and corporations towards carbon neutrality has catalyzed widespread adoption of these monitoring solutions. According to the International Energy Agency (IEA), global data center electricity consumption exceeded 200 TWh in 2023, and it is expected to grow further, increasing the need for power monitoring solutions. Furthermore, technological enhancements, such as cloud-based analytics, modular hardware systems, and AI-powered anomaly detection, have

dramatically improved the accuracy and functionality of circuit monitoring platforms. Despite these advancements, the initial setup costs and concerns around data security in network-connected systems present minor restraints to market growth. Nevertheless, the advantages of reduced downtime, enhanced safety, and predictive maintenance strategies continue to outweigh these concerns.

From a regional standpoint, North America currently holds the dominant position in the global circuit monitoring market, backed by advanced power infrastructure, strong digital transformation trends, and aggressive deployment of energy management systems in the U.S. and Canada. Europe follows closely, benefiting from energy efficiency legislation, smart grid projects, and increasing investments in green building initiatives. Meanwhile, Asia Pacific is expected to witness the fastest growth over the forecast timeline, driven by large-scale urbanization, burgeoning commercial construction, and rapid industrialization in emerging economies such as China, India, and Southeast Asia. Increasing power outages, the rise in residential electrification, and adoption of smart metering systems are expected to foster regional market growth. In Latin America and the Middle East & Africa, infrastructural upgrades and increasing government investment in energy infrastructure will likely contribute to steady demand during the forecast period.

Major market player included in this report are:

ABB Ltd.

Schneider Electric SE

Siemens AG

Eaton Corporation plc

Legrand SA

General Electric Company

Emerson Electric Co.

Mitsubishi Electric Corporation

Honeywell International Inc.

Rockwell Automation, Inc.

Vertiv Group Corp.

Omron Corporation

Raritan Inc.

Cyber Power Systems (USA), Inc.

Accuenergy Inc.

Global Circuit Monitoring Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

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

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

Customization Scope - Free report customization (equivalent up to 8 analysts' 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 for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for

stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Type:

Modular Circuit Monitoring

Others (Branch Circuit & Multi Circuit)

By End Use:

Residential

Commercial

Industrial

Data Centers

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

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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