

# **Global Optical Power Meter Market Size Study & Forecast, By Product (Benchtop Meters, Portable Meters, Virtual Meters) By Application (Telecommunication, Electrical & Electronics, Automotive & Industrial, Military and Aerospace, Energy & Utilities, Others) and Regional Analysis, 2023-2030**

<https://marketpublishers.com/r/G570FA70572AEN.html>

Date: April 2024

Pages: 200

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

ID: G570FA70572AEN

## **Abstracts**

Global Optical Power Meter Market is valued at approximately USD xx billion in 2022 and is anticipated to grow with a healthy growth rate of more than xx% over the forecast period 2023-2030. Optical Power Meter is a device used to measure the optical power or intensity of light in a fiber optic system. It's an essential tool for technicians and engineers working with fiber optic networks to ensure proper signal levels and troubleshoot issues. The meter typically consists of a photodetector, which converts light energy into an electrical signal, and associated circuitry to display the measured power level. The Optical Power Meter market is driven by factors such as the rising number of data centers and the rapid rate of industrialization. They are used during installation, maintenance, and troubleshooting to ensure the performance and reliability of fiber optic systems. As a result, the demand for Optical Power Meter has progressively increased in the global market during the forecast period 2023-2030.

Data centers heavily rely on optical fiber networks for high-speed data transmission over long distances with minimal loss. Optical fibers offer significant advantages over traditional copper wires in terms of bandwidth, reliability, and data transfer speeds. As data centers expand and upgrade their infrastructure to accommodate increasing data loads, they require more optical fiber installations. Optical power meters play a crucial role in the deployment and maintenance of these fiber networks by accurately

measuring optical power levels to ensure optimal performance. According to Statista, as of March 2024, the United States holds the top position in the world for the number of data centers with 5,381 reported. Following the United States, Germany, and the United Kingdom hold the second and third positions with 521 and 514 data centers, respectively. Another important factor that drives the Optical Power Meter market is the rapid rate of industrialization. Industrialization often entails the establishment and expansion of manufacturing facilities across various sectors such as electronics, automotive, and aerospace. Many of these facilities rely on high-speed optical networks for efficient communication, process control, and automation. Optical Power Meters are utilized during the installation and maintenance of these networks to ensure optimal performance, contributing to the increased demand for such equipment. In addition, as per Statista, in 2020 the global Manufacturing Industry accounted for USD 12.17 trillion and is projected to reach up to USD 17.67 trillion by the year 2028. Moreover, technological advancements associated with optical power meters and rising demand for interconnected network structures for delivering electricity are anticipated to create a lucrative growth opportunity for the market over the forecast period. However, the lack of technical expertise and the high integration cost of Optical Power Meter are going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Optical Power Meter Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing penetration of data centers in the region. Data centers consume vast amounts of energy, and optimizing energy efficiency is a priority for operators. Optical Power Meters assist in assessing the power consumption of optical components and networks, allowing data center managers to identify areas where energy can be conserved without compromising performance. The region's dominant performance is anticipated to propel the overall demand for Optical Power Meter. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as the growing rate of industrialization in the region. Industrialization drives the demand for high-speed internet connectivity in manufacturing facilities, warehouses, logistics centers, and other industrial environments to support real-time monitoring, control, and optimization of processes and operations. Fiber-optic communication systems offer higher bandwidth and faster data transfer speeds compared to traditional copper-based networks, making them well-suited for meeting the growing demand for high-speed internet connectivity in industrial settings. Optical power meters are essential tools for certifying and troubleshooting fiber-optic links to ensure reliable and high-performance connectivity.

Major market players included in this report are:

Thorlabs Inc

Newport Corporation

Kingfisher International plc

Viavi Solutions Inc.

GAO Tek Inc.

EXFO Inc.

AFL Telecommunications

Edmund Optics Inc.

Kn Communication Ltd.

DiCon Fiberoptics, Inc.

Recent Developments in the Market:

In September 2020, EXFO Inc. acquired InOpticals Inc., which offers ultra-high-speed test instruments for the laboratory and manufacturing markets. Under this acquisition, the company's optical test offerings will be combined with InOpticals' solutions. Through this, the company can leverage InOpticals' innovative test solutions to enhance its product portfolio and grow in the market.

Global Optical Power Meter 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 - Product, Application, Region

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

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

The objective of the study is to define the 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 countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also 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-segment of the market are explained below:

By Product

Benchtop Meters

Portable Meters

Virtual Meters

By Application

Telecommunication

Electrical & Electronics

Automotive & Industrial

Military and Aerospace

Energy & Utilities

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

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Rest of Middle East & Africa

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