

Global Precision Source Meter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Precision Source Meter market size is expected to reach \$ 2302 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

The Precision Source Meter is a high-end test instrument integrating four core functions: a precision voltage source, a precision current source, a high-precision digital multimeter, and an electronic load. It can simultaneously perform high-precision measurements while providing a stable excitation signal, supporting four-quadrant operation (capable of functioning as both a power supply and a load). It is specifically designed for I-V characteristic testing in fields such as semiconductors and new materials.

Core Operating Mechanisms:

Closed-Loop Feedback Control:Real-time monitoring of output and measured values, automatically adjusting to maintain setpoint accuracy.

Four-Quadrant Operation:Operates in both positive and negative voltage/current combinations, enabling bidirectional power supply and energy absorption.

Synchronous Source Measurement:Seamless connection between measurement and output, eliminating synchronization errors inherent in traditional multi-instrument combinations.

Ultra-High Resolution:Measurement capabilities down to 100nV voltage and 1fA current.

Upstream core components of the Precision Source Meter include high-speed, high-

precision ADCs/DACs, ultra-low noise operational amplifiers, ultra-high precision voltage reference sources, ultra-low temperature coefficient precision resistors, high-precision shunts, thin-film capacitors, low-ripple programmable power supplies, high-voltage power modules, FPGAs/MCUs, etc. Downstream applications are mainly in semiconductors, new materials, new energy, and automotive electronics.

In 2025, global sales of precision source meters reached 79,800 units, with a production capacity of approximately 103,000 units, an average selling price of US\$15,600 per unit, and an average gross profit margin of 50%-60%.

This report studies the global Precision Source Meter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Precision Source Meter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Precision Source Meter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Precision Source Meter total production and demand, 2021-2032, (K Units)

Global Precision Source Meter total production value, 2021-2032, (USD Million)

Global Precision Source Meter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Precision Source Meter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Precision Source Meter domestic production, consumption, key domestic manufacturers and share

Global Precision Source Meter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Precision Source Meter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Precision Source Meter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Precision Source Meter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Keysight Technologies, Tektronix, National

Instruments, Rohde & Schwarz, VX Instruments, Ossila, Chauvin Arnoux, Yokogawa Electric, Chroma ATE, Advantest, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Precision Source Meter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Precision Source Meter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Precision Source Meter Market, Segmentation by Type:

Desktop

Modular

Global Precision Source Meter Market, Segmentation by Accuracy:

≤0.01%

0.01%- 0.1%

>0.1%

Global Precision Source Meter Market, Segmentation by Number of Channels:

Single Channel

Dual Channel

Multi-channel

Global Precision Source Meter Market, Segmentation by Application:

Industrial

Scientific Research

Companies Profiled:

Keysight Technologies

Tektronix

National Instruments

Rohde & Schwarz

VX Instruments

Ossila

Chauvin Arnoux

Yokogawa Electric

Chroma ATE

Advantest

Suzhou Lianxun Instrument

SIGLENT

Precise Instrument

Key Questions Answered:

1. How big is the global Precision Source Meter market?
2. What is the demand of the global Precision Source Meter market?
3. What is the year over year growth of the global Precision Source Meter market?
4. What is the production and production value of the global Precision Source Meter market?
5. Who are the key producers in the global Precision Source Meter market?
6. What are the growth factors driving the market demand?

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