

# Global Vacuum Gauge Controller Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vacuum Gauge Controller market size is expected to reach \$ 588 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

In 2025, global vacuum gauge controller production capacity is 500,000 units, with actual production reaching approximately 350,000 units. The average global market price is around US\$ 1,200 per unit, and the market gross profit margin is mainly in the range of 35%–45%. A vacuum gauge controller is an electronic control unit used to power, operate, and read signals from vacuum gauges such as ionization gauges, Pirani gauges, capacitance manometers, and cold cathode gauges. The controller supplies the required operating voltage and current to the gauge sensor, converts the measured signal into pressure data, and displays or transmits the vacuum measurement to external systems. Vacuum gauge controllers are essential components in vacuum measurement systems, enabling accurate monitoring and control of vacuum levels in industrial and scientific processes. Modern controllers often support multiple gauge types, digital communication interfaces, remote monitoring, and integration with automated process control systems. They are widely used in semiconductor manufacturing, vacuum coating equipment, analytical instruments, and research laboratories.

The upstream of the vacuum gauge controller industry includes electronic components, printed circuit boards (PCBs), microcontrollers, power supply modules, signal conditioning circuits, display modules, and metal enclosures. Key materials include semiconductor components, integrated circuits, connectors, and precision electronic assemblies. The midstream focuses on the design and manufacturing of vacuum gauge controllers, involving circuit design, firmware development, signal processing algorithms, assembly, calibration, and system testing. Product reliability and

compatibility with multiple gauge technologies are critical factors for manufacturers. The downstream mainly consists of vacuum equipment manufacturers and end users in industries such as semiconductor fabrication, vacuum coating, display manufacturing, scientific instruments, aerospace research, and laboratory systems. In addition to equipment sales, related services include system integration, calibration, maintenance, and replacement modules.

The vacuum gauge controller market is closely associated with the expansion of vacuum-based industrial processes and advanced manufacturing sectors. Semiconductor manufacturing is one of the primary demand drivers, as wafer fabrication processes require precise and continuous monitoring of vacuum pressure to maintain stable processing environments. As semiconductor fabs continue to expand globally, demand for reliable vacuum measurement and control systems is expected to increase.

Another key driver is the development of vacuum coating, display manufacturing, and advanced materials processing industries. These applications rely heavily on accurate vacuum monitoring and automated process control, which increases the need for high-performance vacuum gauge controllers capable of integrating multiple sensor types.

Technological advancement is also shaping the market. Modern controllers are increasingly equipped with digital interfaces such as Ethernet, RS485, and fieldbus communication protocols, enabling integration with industrial automation systems and remote monitoring platforms. Additionally, compact design, multi-gauge compatibility, and intelligent diagnostics are becoming important product features. These trends are expected to support steady growth in the vacuum gauge controller market over the next several years.

This report studies the global Vacuum Gauge Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vacuum Gauge Controller 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 Vacuum Gauge Controller that contribute to its increasing demand across many markets.

## **Highlights and key features of the study**

Global Vacuum Gauge Controller total production and demand, 2021-2032, (K Units)

Global Vacuum Gauge Controller total production value, 2021-2032, (USD Million)

Global Vacuum Gauge Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Vacuum Gauge Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Vacuum Gauge Controller domestic production, consumption, key domestic manufacturers and share

Global Vacuum Gauge Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Vacuum Gauge Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Vacuum Gauge Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Vacuum Gauge Controller 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 INFICON, Edwards Vacuum, Leybold, MKS Instruments, Agilent Technologies, Pfeiffer Vacuum, DigiVac, InstruTech, Thyracont Vacuum Instruments, Shanghai Yiyang Industrial Co., Ltd., 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 Vacuum Gauge Controller market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Vacuum Gauge Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Vacuum Gauge Controller Market, Segmentation by Type:

Single Channel

Multi Channel

#### Global Vacuum Gauge Controller Market, Segmentation by Supported Gauge Type:

Ionization Gauge Controller

Pirani Gauge Controller

Combination Gauge Controller

## Global Vacuum Gauge Controller Market, Segmentation by Installation Type:

Rack-mounted Controller

Embedded Controller

Standalone Controller

## Global Vacuum Gauge Controller Market, Segmentation by Application:

Semiconductor Manufacturing

Vacuum Coating

Scientific Research

Industrial

Others

## Companies Profiled:

INFICON

Edwards Vacuum

Leybold

MKS Instruments

Agilent Technologies

Pfeiffer Vacuum

DigiVac

InstruTech

Thyracont Vacuum Instruments

Shanghai Yiyang Industrial Co., Ltd.

Chengdu Ruibao Electronic Technology Co., Ltd.

Chengdu Zhenghua Electronic Instrument Co., Ltd.

**Key Questions Answered:**

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

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