

Global Pressure Gauge for Semiconductor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pressure Gauge for Semiconductor market size is expected to reach \$ 444 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Pressure Gauge for Semiconductor refers to pressure measurement, indication, transmission and switching instruments used in semiconductor wafer fabrication, advanced packaging, flat-panel display, photovoltaic and other high-purity manufacturing environments. The product scope mainly includes electronic pressure transducers/sensors, mechanical pressure gauges, pressure switches, and high-purity pressure instruments with display, alarm or communication functions. These products monitor gauge, absolute, differential or compound pressure in specialty gases, bulk gases, corrosive gases, high-purity chemicals, ultrapure water, cooling water, temperature-control fluids, facility pipelines and tool-level gas/liquid lines. They provide stable pressure signals or local readings for gas panels, gas boxes, gas sticks, gas cabinets, VMB/VMP, integrated gas systems, chemical delivery systems, UPW/PCW systems, chillers and equipment safety interlocks. Semiconductor pressure gauges are typically centered on ultra-high-purity products, but also include high-purity, corrosion-resistant, digital switching and industrial-grade pressure instruments used in non-UHP applications. Compared with general pressure instruments, semiconductor-grade products emphasize 316L stainless steel, electropolishing, low particle generation, low dead volume, leak tightness, corrosion resistance, fast response, clean packaging, EMC stability, compact installation and long-term drift control. Their value lies not only in pressure measurement, but also in gas-purity protection, equipment safety, process consistency and wafer-yield improvement.

The production model of semiconductor pressure gauges can be divided into three

categories. The first is the UHP high-purity pressure-instrument manufacturing model, built around 316L VIM/VAR stainless steel, metal diaphragms, Bourdon tubes, VCR/face-seal interfaces, welded sealing, electropolishing, ultrasonic cleaning, clean assembly, helium leak testing, calibration and clean packaging. This model primarily serves specialty gas systems, gas cabinets, VMB/VMP and tool-level gas panels. The second is the electronic pressure transducer/sensor manufacturing model, based on MEMS piezoresistive chips, thin-film strain structures, CVD thin-film sensing elements, ASIC signal conditioning, temperature compensation, aging tests and housing integration. It is suitable for tool-level gases, liquids, cooling water, CDA/N₂ and Fab facility pressure monitoring. The third is the mechanical pressure gauge and pressure-switch manufacturing model, based on Bourdon tubes, diaphragms, contact switches, reed switches, mechanical pointers, housings, seals and corrosion-resistant wetted materials. It is suitable for local indication, safety alarm, cost-effective monitoring and backup protection.

In terms of profitability, semiconductor pressure gauges generally achieve gross margins of around 25%–45%. High-end UHP pressure transducers, UHP dual-switch pressure gauges, SEMI-compatible material products, display/self-diagnostic instruments and hazardous-area certified models may reach 40%–45%, supported by long customer qualification cycles, strict clean-manufacturing requirements and high material and failure costs. Mid-range high-purity pressure transducers, corrosion-resistant pressure gauges and digital pressure switches are typically around 30%–40%, while ordinary mechanical gauges, standardized pressure switches and price-sensitive pan-semiconductor engineering products may fall to 20%–30%. The upstream value chain includes 316L stainless steel, Hastelloy, PFA/PTFE, ceramics, glass, Bourdon tubes, diaphragms, MEMS dies, ASICs, connectors, seals and clean packaging materials. The midstream covers precision machining, welding, electropolishing, cleaning, assembly, pressure calibration, temperature compensation, leak testing, aging and reliability validation. Downstream customers include semiconductor equipment OEMs, wafer fabs, advanced packaging plants, gas-system integrators, Fab facility engineering firms, display panel fabs, photovoltaic equipment makers and high-purity chemical system suppliers. Future competition will shift from standalone pressure measurement to integrated capabilities in high-purity materials, clean manufacturing, reliability validation, rapid delivery and customer BOM qualification.

Semiconductor pressure gauges are benefiting from global fab expansion, AI computing chips, HBM, advanced packaging, regionalization of mature-node capacity and upgrades of high-purity gas systems. As tool complexity increases, etching, deposition, ion implantation, cleaning, CMP, track, thermal-processing and advanced packaging

tools require more pressure-monitoring points in gas panels, gas sticks, gas boxes, chemical lines and cooling-water circuits. On the Fab facility side, bulk gas, specialty gas, UPW, PCW, CDA, N₂, gas cabinets, VMB/VMP and Sub-Fab systems create stable project procurement and spare-parts replacement demand. Regional semiconductor manufacturing policies are accelerating supply-chain localization, turning pressure gauges from low-visibility components into critical instruments that affect equipment safety, process stability and supply-chain resilience.

The main challenges are long qualification cycles, fragmented product specifications, clean-manufacturing requirements and high material barriers. Semiconductor customers focus not only on accuracy, but also on low particles, low leakage, low metal-ion contamination, fast dry-down, corrosion resistance, EMC stability, long-term zero drift and batch consistency. UHP products require a complete system of materials, welding, electropolishing, cleaning, helium leak testing and clean packaging. Mechanical gauges and pressure switches must deliver reliable indication, safety alarm and media compatibility in limited installation spaces. International brands still hold advantages in high-end equipment BOMs, long-term application data and global service networks, while new entrants without semiconductor customer validation experience face difficulty entering advanced process gas lines in the short term.

Future demand will move toward higher purity, digitalization, miniaturization, corrosion resistance and integrated safety interlocks. Tool-side applications will drive growth in low-dead-volume, compact, high-density and diagnostic pressure transducers. Fab facility applications will continue to require UHP pressure gauges, pressure switches and high-purity pressure transducers for specialty gas, bulk gas, UPW, PCW and chemical systems. Photovoltaic, display, power-device and compound-semiconductor applications will create scaled demand for mid-range high-purity and corrosion-resistant pressure instruments. In the long run, companies with SEMI-compatible material capability, clean manufacturing, reliability databases, regional service networks and customized engineering capability will gain stronger customer stickiness and pricing power during global semiconductor equipment expansion and supply-chain restructuring.

This report studies the global Pressure Gauge for Semiconductor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Pressure Gauge for Semiconductor total production and demand, 2021-2032, (K Units)

Global Pressure Gauge for Semiconductor total production value, 2021-2032, (USD Million)

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

Global Pressure Gauge for Semiconductor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Pressure Gauge for Semiconductor domestic production, consumption, key domestic manufacturers and share

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

Global Pressure Gauge for Semiconductor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Pressure Gauge for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Pressure Gauge for Semiconductor 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 WIKA, Nagano Keiki, Setra Systems, Tem-Tech Lab (Azbil), MKS, Brooks Instrument, Precision Sensors (United Electric Controls), Gem-Tech, WISE CONTROL, SMC, 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 Pressure Gauge for Semiconductor market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pressure Gauge for Semiconductor Market, Segmentation by Type:

Piezoresistive Pressure Sensors

Capacitive Pressure Sensors

Mechanical Pressure Gauges

Mechanical Pressure Switches

Others

Global Pressure Gauge for Semiconductor Market, Segmentation by Product Grade:

Ultra-high Purity

Non-ultra-high Purity

Global Pressure Gauge for Semiconductor Market, Segmentation by Display:

Digital Type

Non-digital Type

Global Pressure Gauge for Semiconductor Market, Segmentation by Application:

Semiconductor Photovoltaics

Semiconductor Fab Facilities

Lithography Equipment

Metrology and Inspection Equipment

Etching Equipment

Deposition Equipment

Epitaxy Equipment

Annealing Equipment

Other Semiconductor Equipment

Companies Profiled:

WIKA

Nagano Keiki

Setra Systems

Tem-Tech Lab (Azbil)

MKS

Brooks Instrument

Precision Sensors (United Electric Controls)

Gem-Tech

WISE CONTROL

SMC

Entegris

Druck (Baker Hughes)

Xingqi (Shanghai) Semiconductor

Nidec Components

Wasco

Zhongke Jiuwei Technology

VALCOM CO., LTD

Honeywell

TK-Fujikin

Shanghai TM automation

Suzhou Baicon Sensor Technology

DwyerOmega

Shenzhen Maxonic Automation Control

Sensor System Technology

GTI Precision Instrument

Micro Sensor

Suzhou RMNO

Shanghai Sightho Instrument

Key Questions Answered:

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

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