

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

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Abstracts

The global Semiconductor Pressure Sensor market size is expected to reach \$ 349 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

In 2025, global Semiconductor Pressure Sensor production reached approximately 630.94 K Units, the average price is 347 USD/Unit.

Semiconductor Pressure Sensor refers to electronic pressure-measurement components, pressure sensors and pressure transmitters installed in semiconductor wafer fabrication tools, advanced packaging equipment, pan-semiconductor equipment and Fab facility systems. These products measure gauge pressure, absolute pressure, differential pressure or compound pressure in specialty gases, bulk gases, corrosive gases, chemicals, ultrapure water, cooling water, temperature-control fluids and auxiliary tool piping, and convert pressure changes into analog, digital or switching signals. Typical installation points include gas panels, gas boxes, gas sticks, gas cabinets, VMB/VMP, integrated gas systems, chemical delivery systems, UPW/PCW systems, chillers and equipment safety-interlock systems. They are essential components for stable gas delivery, liquid pressure control, process safety and equipment uptime. This report scope excludes vacuum gauges, Pirani gauges, ionization gauges, capacitance diaphragm gauges, CDGs and Baratron-type vacuum manometers. Compared with general industrial pressure sensors, semiconductor-grade products require higher standards in UHP materials, low particle generation, low dead volume, corrosion resistance, leak tightness, long-term zero stability, clean packaging and SEMI-compatible material systems. WIKA's UHP pressure transducers are positioned for OEM tool gas panels, semiconductor, display, photovoltaic and specialty/bulk gas supply applications, while Ashcroft's semiconductor pressure

instruments are designed for UHP gas and high-purity fluid delivery systems.

The production model of Semiconductor Pressure Sensor can be divided into three major categories. The first is the high-end UHP/HP pressure-transmitter manufacturing model, in which companies control sensing chips or sensing elements, metal diaphragms, 316L VIM/VAR stainless steel, welded sealing, electropolishing, clean cleaning, helium leak testing, temperature compensation, aging tests and clean packaging. This model mainly serves specialty gases, gas panels, VMB/VMP and high-purity gas systems. The second is the MEMS/piezoresistive platform production model, centered on silicon piezoresistive chips, thin-film strain elements, ASIC signal conditioning and standardized packaging, suitable for auxiliary tool piping, cooling water, CDA/N₂ and general gas/liquid pressure monitoring. The third is the customized engineering module model, which adds PFA/PTFE, ceramic, Hastelloy or isolated diaphragm structures for wet tools, chemical delivery, UPW, CMP and corrosive media applications.

In terms of profitability, the overall gross margin of Semiconductor Pressure Sensor is generally around 35%-60%. High-end UHP pressure transmitters, SEMI-compatible metal-diaphragm products, intelligent transmitters with displays and corrosion-resistant chemical pressure transmitters may reach 45%-65%, supported by long qualification cycles, high material costs, strict clean-manufacturing requirements and high failure costs. Mid-range piezoresistive, thin-film strain and auxiliary tool pressure sensors usually range from 30%-45%, while standardized or highly competitive general-purpose products may fall to 20%-35%. The upstream value chain includes silicon MEMS chips, ASICs, 316L VIM/VAR stainless steel, metal diaphragms, ceramics, PFA/PTFE, seals, connectors and clean packaging materials. The midstream covers chip fabrication, sensing-element packaging, welding, cleaning, electropolishing, calibration, temperature compensation, aging and reliability validation. The downstream includes semiconductor equipment OEMs, gas-system integrators, Fab facility engineering companies, wafer fabs, advanced packaging plants, photovoltaic and display equipment manufacturers. Future competition will shift from standalone sensor manufacturing to integrated capabilities in high-purity materials, clean manufacturing, long-term stability, customer BOM qualification and rapid service delivery.

Semiconductor Pressure Sensor are benefiting from global fab expansion, AI computing chips, HBM, advanced packaging, localization of mature-node capacity and investment in pan-semiconductor equipment. Global semiconductor manufacturing equipment sales reached USD 135.1 billion in 2025 and are projected to rise to USD 156 billion in 2027, directly increasing the number of pressure-monitoring points in gas panels, gas boxes,

specialty-gas systems, wet-chemical delivery, UPW and facility piping. The U.S. CHIPS program provides around USD 50 billion to strengthen semiconductor R&D and manufacturing, while Europe, Japan, South Korea, China and Southeast Asia are also promoting localized manufacturing capabilities. Regional supply-chain restructuring will strengthen demand for local equipment and critical components.

The key challenge is not simply pressure measurement, but long-term stable operation in high-purity, corrosive and safety-critical environments. Semiconductor equipment customers impose stringent requirements on particles, leakage, metal ion contamination, surface roughness, material traceability, temperature drift, zero drift and batch consistency. Suppliers normally need to pass sample testing, cleanliness validation, reliability tests, equipment-platform qualification and wafer-fab introduction. International brands still hold advantages in customer BOMs, material systems, global delivery and reliability databases. New entrants without clean manufacturing, helium leak testing, electropolishing, welded sealing and long-term failure-analysis capabilities face significant barriers in entering advanced process gas lines.

Future demand will evolve along four directions: higher-end tool-side applications, stable Fab facility demand, scalable pan-semiconductor applications and accelerated localization. On the equipment side, etching, CVD, ALD, PVD, cleaning, CMP, track, ion implantation and advanced packaging tools will require more gas and liquid pressure-monitoring points. On the Fab side, bulk gas, specialty gas, gas cabinets, VMB/VMP, UPW, PCW, CDA, N₂ and chemical delivery systems will create continuous maintenance and spare-parts demand. In pan-semiconductor applications, photovoltaic, display, power-device and compound-semiconductor equipment will drive demand for mid-range pressure sensors, corrosion-resistant transmitters and digital pressure switches. Product development will focus on UHP purity, corrosion resistance, low dead volume, miniaturization, digital output, displays, self-diagnosis, remote calibration and SEMI-compatible materials. Companies with strong capabilities in materials, process control, qualification and local service will gain stronger pricing power and customer stickiness.

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

This report is a detailed and comprehensive analysis of the world market for Semiconductor Pressure Sensor 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 Semiconductor Pressure

Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Semiconductor Pressure Sensor 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 Semiconductor Pressure Sensor 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 Semiconductor Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Pressure Sensor Market, Segmentation by Type:

Piezoresistive Pressure Sensors

Capacitive Pressure Sensors

Others

Global Semiconductor Pressure Sensor Market, Segmentation by Product Grade:

Ultra-high Purity Pressure Sensors

Non-ultra-high Purity Pressure Sensors

Global Semiconductor Pressure Sensor Market, Segmentation by Display:

Digital Pressure Sensors

Non-digital Pressure Sensors

Global Semiconductor Pressure Sensor 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

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

Key Questions Answered:

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

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