

Global Silicon Element Diaphragm Pressure Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Element Diaphragm Pressure Sensor market size is expected to reach \$ 898 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Silicon diaphragm pressure sensors are pressure-sensing devices that use a silicon-based MEMS sensing element or silicon piezoresistive diaphragm as the core sensing structure. When pressure is applied, the silicon diaphragm deforms slightly, and the resulting mechanical stress is converted into an electrical signal through piezoresistive, capacitive, or strain-bridge sensing principles. Typical products include silicon pressure sensor dies, packaged MEMS pressure sensor ICs, board-mount pressure sensors, media-isolated silicon pressure sensors, silicon pressure transducer capsules, and compact OEM pressure transmitters.

From a supply-side perspective, silicon diaphragm pressure sensors represent a mature but continuously evolving global sensor segment. Leading companies can be broadly divided into three categories. The first category consists of diversified sensor platform companies such as Honeywell, TE Connectivity, Amphenol, and Sensata, which cover multiple application areas including automotive, industrial, medical, and aerospace. The second category includes semiconductor and MEMS platform companies such as Bosch Sensortec, STMicroelectronics, Infineon, TDK, and Murata, which are particularly strong in consumer electronics, IoT, and selected automotive-grade applications. The third category consists of specialized pressure sensor and pressure sensing element manufacturers, such as KELLER, Druck, Kulite, Merit Sensor, Micro Sensor, Wotian, and GOVA, which mainly serve industrial OEM, high-reliability, and special-environment applications. From a technology-route perspective, silicon piezoresistive sensing remains one of the mainstream approaches for industrial, automotive, medical, and high-

reliability pressure measurement. Its key advantages include high sensitivity, compact size, mature manufacturing processes, scalability for mass production, and ease of integration with ASIC-based compensation and calibration. Consumer electronics and low-power barometric pressure sensors more often use silicon MEMS capacitive structures or hybrid MEMS structures. In harsh industrial media environments, stainless steel diaphragms and oil-filled isolation structures are commonly used to isolate the medium, protecting the silicon chip while retaining the high sensitivity of silicon piezoresistive sensing. Official materials from Amphenol NovaSensor, KELLER, and Sensata all show that the combination of a metal isolation diaphragm and a silicon piezoresistive chip is an important structure for industrial media-isolated products. From a regional competition perspective, European, U.S., and Japanese manufacturers still hold advantages in high-reliability, automotive-grade, medical, and aerospace pressure sensors. Chinese suppliers are upgrading from diffused silicon pressure sensing elements and industrial pressure sensors toward MEMS pressure chips, automotive-grade pressure sensors, and low-pressure differential pressure sensors. MEMSensing, NOVOSENSE, Wuhan Fine MEMS, Micro Sensor, Nanjing Wotian, and GOVA form a multi-layered domestic supply base in China. Among them, NOVOSENSE and Wuhan Fine MEMS are more focused on automotive-grade MEMS and ASIC integration; Micro Sensor and Nanjing Wotian are more focused on industrial pressure sensing elements and transmitters; and MEMSensing is more focused on MEMS chips and compact pressure sensors. Future competition will evolve around four main directions. First, automotive pressure sensors will move toward automotive-grade qualification, higher reliability, media resistance, and system integration. Second, medical and HVAC low-pressure differential pressure sensors will develop toward lower pressure ranges, higher stability, and digital outputs. Third, industrial silicon piezoresistive pressure sensing elements will upgrade toward stronger media isolation, higher overload resistance, wider temperature ranges, and lower drift. Fourth, sensors will become further integrated with ASICs, calibration algorithms, digital interfaces, and modular packaging. Overall, silicon diaphragm pressure sensors will not be fully replaced by ceramic or thin-film technologies; instead, they will coexist over the long term with ceramic capacitive, metal thin-film, piezoelectric, and other technology routes across different pressure ranges and media environments.

This report studies the global Silicon Element Diaphragm Pressure Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Silicon Element Diaphragm Pressure Sensor total production and demand, 2021-2032, (K Units)

Global Silicon Element Diaphragm Pressure Sensor total production value, 2021-2032, (USD Million)

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

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

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

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

Global Silicon Element Diaphragm Pressure Sensor production by Sensing Principle, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Silicon Element Diaphragm 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 Honeywell, TE Connectivity, Amphenol Sensors, Sensata Technologies, KELLER Pressure, Merit Sensor Systems, Kulite Semiconductor Products, Druck, Bosch Sensortec, STMicroelectronics, 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 Silicon Element Diaphragm 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 Sensing Principle, 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 Silicon Element Diaphragm Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Element Diaphragm Pressure Sensor Market, Segmentation by Sensing Principle:

Silicon Piezoresistive

Silicon Capacitive MEMS

SOI Piezoresistive

Resonant Silicon Pressure Sensor

Other Silicon MEMS

Global Silicon Element Diaphragm Pressure Sensor Market, Segmentation by Product Form:

- Silicon Pressure Die
- Packaged MEMS Pressure Sensor
- Board-mount Pressure Sensor
- Media-isolated Silicon Pressure Sensor
- Pressure Transducer Capsule
- Compact Pressure Transmitter

Global Silicon Element Diaphragm Pressure Sensor Market, Segmentation by Pressure Type:

- Absolute Pressure Sensor
- Gauge Pressure Sensor
- Differential Pressure Sensor
- Sealed Gauge Sensor
- Compound Pressure Sensor

Global Silicon Element Diaphragm Pressure Sensor Market, Segmentation by Application:

- Automotive
- Consumer Electronics
- Medical & Healthcare

HVAC & Building Automation

Industrial OEM

Aerospace & Test

Energy & Process Equipment

Companies Profiled:

Honeywell

TE Connectivity

Amphenol Sensors

Sensata Technologies

KELLER Pressure

Merit Sensor Systems

Kulite Semiconductor Products

Druck

Bosch Sensortec

STMicroelectronics

Infineon Technologies

TDK InvenSense

Murata Manufacturing

NXP Semiconductors

Melexis

Sensirion

OMRON Corporation

Fujikura Ltd.

AMSYS / Analog Microelectronics

Setra Systems

BD Sensors

Ashcroft

Key Questions Answered:

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

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