

# Global Silicon Element Diaphragm Pressure Sensor Market Growth 2026-2032

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## Abstracts

The global Silicon Element Diaphragm Pressure Sensor market size is predicted to grow from US\$ 567 million in 2025 to US\$ 871 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Element Diaphragm Pressure Sensor Industry Forecast" looks at past sales and reviews total world Silicon Element Diaphragm Pressure Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Element Diaphragm Pressure Sensor sales for 2026 through 2032. With Silicon Element Diaphragm Pressure Sensor

sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Element Diaphragm Pressure Sensor industry.

This Insight Report provides a comprehensive analysis of the global Silicon Element Diaphragm Pressure Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon Element Diaphragm Pressure Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Element Diaphragm Pressure Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Element Diaphragm Pressure Sensor and breaks down the forecast by Sensing Principle, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon Element Diaphragm Pressure Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Element Diaphragm Pressure Sensor market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Sensing Principle:

Silicon Piezoresistive

Silicon Capacitive MEMS

SOI Piezoresistive

Resonant Silicon Pressure Sensor

Other Silicon MEMS

#### 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

#### Segmentation by Pressure Type:

Absolute Pressure Sensor

Gauge Pressure Sensor

Differential Pressure Sensor

Sealed Gauge Sensor

Compound Pressure Sensor

#### Segmentation by Application:

Automotive

Consumer Electronics

Medical & Healthcare

HVAC & Building Automation

Industrial OEM

Aerospace & Test

## Energy & Process Equipment

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

### Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Silicon Element Diaphragm Pressure Sensor market?

What factors are driving Silicon Element Diaphragm Pressure Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon Element Diaphragm Pressure Sensor market opportunities vary by end market size?

How does Silicon Element Diaphragm Pressure Sensor break out by Sensing Principle, by Application?

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