

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

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Abstracts

The global Silicon Pressure Sensor market size is expected to reach \$ 607 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, global silicon pressure sensors production reached approximately 681 k units, the average price is 600 usd/unit. Silicon pressure sensors are made using the piezoresistive effect of single crystal silicon. Four semiconductor resistors of equal value are diffused in a specific direction of the silicon diaphragm and connected to form a Wheatstone bridge as the sensitive element of the force-to-electric converter. When the diaphragm is subjected to external pressure and the bridge loses its balance, if an excitation power supply (constant current and constant pressure) is applied to the bridge, an output voltage proportional to the measured pressure can be obtained, so as to achieve the purpose of measuring pressure.

Market Concentration and Key Players:

From an international perspective, the market concentration of silicon pressure sensors is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, Honeywell and Emerson Electric and other large manufacturers; from the domestic point of view, silicon pressure sensors still have a lot of room for development.

Manufacturing Processes and Market Trends:

Silicon pressure sensors are fabricated mainly by MEMS technology, which forms micro-scale sensitive structures by depositing thin films on silicon wafers, photolithography, etching and bonding. Its core technology includes two mainstream technical paths:

piezoresistive and capacitive. Piezoresistive uses Wheatstone bridge to detect the change of resistance of varistor, and capacitive senses pressure by measuring the change of plate spacing caused by pressure. In order to improve the reliability of sensors in complex environments such as high temperature and corrosion, material innovation continues to advance, such as the use of silicon on insulator, silicon carbide and other wide band semiconductor materials to enhance temperature resistance, and through special packaging technology such as oil filled packaging or open seal packaging to isolate stress and environmental interference.

On the market side, the demand for silicon pressure sensors continues to grow, driven by a wide range of fields such as automotive, consumer electronics, industrial automation and medical health. The global market is dominated by Bosch, Tyco Electronics, Infineon and other international manufacturers, with high market concentration. China's domestic market is growing particularly rapidly, with a compound annual growth rate significantly higher than the global level. The localization substitution process is making partial breakthroughs in consumer electronics, automobile specifications and industrial high-end applications, and a number of representative enterprises such as nano-core micro, sensitive core shares and ampere dragon have emerged.

Future trends show that silicon pressure sensors are moving towards higher accuracy, lower power consumption, and greater intelligence, and intelligent sensors integrating temperature compensation and digital output will become mainstream. At the same time, its application scenarios are constantly expanding, deepening into emerging fields such as robot joint force control, deep sea exploration, flexible wearable equipment, etc. The collaboration and integration of upstream and downstream of the industrial chain is expected to be further accelerated.

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

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

Highlights and key features of the study

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

Global Silicon Pressure Sensor total production value, 2021-2032, (USD Million)
Global Silicon Pressure Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Silicon Pressure Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Silicon Pressure Sensor domestic production, consumption, key domestic manufacturers and share
Global Silicon Pressure Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Silicon Pressure Sensor production by End Use, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Silicon Pressure Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silicon 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, Keller, TE Connectivity, STMicroelectronics, Bosch, Infineon, NXP, TDK Electronics, Omron, Sensata Technologies, 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 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 End Use, 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 Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Pressure Sensor Market, Segmentation by End Use:

Silicon Pressure Sensor for Sphygmomanometer

Silicon Pressure Sensor for Automobile

Silicon Pressure Sensor for Flow Meter

Global Silicon Pressure Sensor Market, Segmentation by Theory:

Piezoresistive

Capacitive

Resonant

Global Silicon Pressure Sensor Market, Segmentation by Gauging Pressure:

Absolute Pressure

Gauge Pressure

Differential Pressure

Global Silicon Pressure Sensor Market, Segmentation by Application:

Automotive

Medical

Others

Companies Profiled:

Honeywell

Keller

TE Connectivity

STMicroelectronics

Bosch

Infineon

NXP

TDK Electronics

Omron

Sensata Technologies

Kavlico

WIKA

Huba Control

Danfoss

Emerson

Siemens

Rockwell Automation

BD Sensors

Gefran

Kistler

Kulite

PCB Piezotronics

Endevco(Amphenol)

JUMO

IFM

Merit Sensor Systems

Crane

Key Questions Answered:

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

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