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

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Abstracts

The global Metal Diaphragm Pressure Sensor market size is expected to reach $ 1919 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Metal diaphragm pressure sensors are pressure measurement devices that use a metal diaphragm as the pressure-bearing isolation surface or sensing diaphragm. Their core function is to transfer the pressure of gases, liquids, oils, refrigerants, hydrogen, corrosive media, viscous media, or particle-containing media to an internal sensing element and convert it into an electrical signal output. Product forms include metal diaphragm pressure sensing cells, media-isolated pressure sensors, flush diaphragm pressure sensors, metal thin-film pressure sensors, compact pressure transmitters, and industrial pressure transmitters.

Compared with conventional silicon diaphragm sensors, metal diaphragm pressure sensors are better suited for harsh media, high pressure, hydraulic systems, refrigeration, food and pharmaceutical processing, chemical industries, construction machinery, hydrogen energy, oil and gas, and process industries. For example, WIKA?s S-11 flush diaphragm pressure transmitter is clearly designed for viscous, paste-like, crystallizing, particle-containing, and contaminated media, helping to avoid clogging issues commonly associated with traditional pressure ports.

From a supply-side perspective, metal diaphragm pressure sensors represent a mature but continuously upgrading industrial sensor segment. Leading companies mainly include WIKA, TE Connectivity, KELLER, Sensata, Trafag, BD Sensors, STS, Druck, Honeywell, and Amphenol. European and U.S. companies have clear advantages in high-reliability industrial, aerospace, hygienic, hydrogen, and process industry

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applications, while Chinese manufacturers such as Micro Sensor, Nanjing Wotian, and GOVA are rapidly filling gaps in industrial pressure sensing cells, compact pressure transmitters, and domestic substitution markets. From a technology-route perspective, the market is mainly composed of two major approaches: media-isolated silicon piezoresistive technology and metal thin-film technology. The former uses a metal diaphragm and oil-filled structure to protect the internal silicon chip, balancing sensitivity with media compatibility. The latter directly forms a thin-film strain structure on a stainless steel diaphragm, offering features such as an all-welded structure, vibration resistance, good long-term stability, and suitability for high-pressure and harsh operating conditions. In hydrogen applications, Trafag emphasizes that the key components of its pressure transmitters are based on thin-film-on-steel technology and use a fully welded, O-ring-free structure. From the demand side, growth is mainly driven by industrial automation, hydraulic system upgrades, refrigeration and heat pumps, hydrogen energy, hygienic processes in food and pharmaceuticals, chemical safety monitoring, and water utility digitalization. Compared with consumer-grade MEMS pressure sensors, metal diaphragm pressure sensors have lower shipment volumes but higher unit prices. Compared with large process pressure transmitters, they are more oriented toward OEM embedded applications and compact industrial sensor markets. Future competition will evolve around five main directions. First, flush diaphragm and hygienic structures will continue to grow in food, pharmaceutical, and viscous-media applications. Second, hydrogen energy and high-pressure gas applications will drive demand for titanium alloys, Hastelloy, coatings, and fully welded structures. Third, metal thin-film products will upgrade toward higher overload resistance, wider temperature ranges, and lower drift. Fourth, IO-Link, CAN, digital outputs, and smart diagnostic functions will penetrate further into industrial OEM applications. Fifth, Chinese local suppliers will expand their share in mid- to low-end industrial pressure sensing cells and transmitters, but they still need to improve materials, welding, long-term stability, and certification capabilities in high-end hygienic, hydrogen, and aerospace applications.

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

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

Highlights and key features of the study

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

This report profiles key players in the global Metal 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 WIKA, TE Connectivity, KELLER Pressure, Sensata Technologies, Trafag, BD Sensors, STS Sensors, Druck, Honeywell, Amphenol Sensors, 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 Metal 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 Technology, 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.

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Global Metal Diaphragm Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metal Diaphragm Pressure Sensor Market, Segmentation by Technology:

Media-isolated Silicon Piezoresistive

Thin-film-on-steel

Sputtered Thin-film Metal Diaphragm

Metal Diaphragm Capacitive

High-temperature Melt Pressure Diaphragm

Global Metal Diaphragm Pressure Sensor Market, Segmentation by Pressure Range:

Low Pressure

Medium Pressure

High Pressure

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Ultra-high Pressure

Vacuum / Compound

Global Metal Diaphragm Pressure Sensor Market, Segmentation by Diaphragm Material:

Stainless Steel Diaphragm

Titanium Diaphragm

Hastelloy Diaphragm

Nickel Alloy Diaphragm

Tantalum Diaphragm

Coated Metal Diaphragm

Global Metal Diaphragm Pressure Sensor Market, Segmentation by Application:

Industrial OEM

Process Industry

Food & Pharmaceutical

Refrigeration & HVAC

Hydrogen & New Energy

Water & Environmental

Plastics & Melt Processing

Aerospace & Test

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Companies Profiled:

- WIKA
- TE Connectivity
- KELLER Pressure
- Sensata Technologies
- Trafag
- BD Sensors
- STS Sensors
- Druck
- Honeywell
- Amphenol Sensors
- Setra Systems
- Gems Sensors

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

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