

Global High-temperature Piezoresistive Pressure Transducer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-temperature Piezoresistive Pressure Transducer market size is expected to reach \$ 354 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

In 2025, global High-temperature Piezoresistive Pressure Transducer production reached approximately 432 k units with an average global market price of around US\$500 per unit. Single-line annual production capacity averages 35 k units with a gross margin of approximately 30%. The upstream of high-temperature piezoresistive pressure transducers is concentrated in the fields of semiconductor materials, sensitive elements, and packaging technologies. The downstream applications are diverse, with aerospace accounting for 20%, automotive 30%, petrochemical 15%, medical 10%, food 5%, and others 20%. The market demand is on the rise, with business opportunities primarily lying in high-temperature industrial process control and key equipment monitoring.

Piezoresistive pressure transducers designed for high-temperature environments incorporate advanced materials and engineering to ensure accurate pressure measurement under extreme heat conditions. These transducers feature robust construction and temperature compensation mechanisms that maintain stability and precision, even when exposed to temperatures beyond the capabilities of conventional sensors. The integration of temperature-stable piezoresistive elements and high-temperature-resistant materials allows for reliable performance in challenging industrial applications, where pressure monitoring is critical for maintaining process integrity and safety.

This report studies the global High-temperature Piezoresistive Pressure Transducer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-temperature Piezoresistive Pressure Transducer 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 High-temperature Piezoresistive Pressure Transducer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-temperature Piezoresistive Pressure Transducer total production and demand, 2021-2032, (K Units)

Global High-temperature Piezoresistive Pressure Transducer total production value, 2021-2032, (USD Million)

Global High-temperature Piezoresistive Pressure Transducer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High-temperature Piezoresistive Pressure Transducer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High-temperature Piezoresistive Pressure Transducer domestic production, consumption, key domestic manufacturers and share

Global High-temperature Piezoresistive Pressure Transducer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High-temperature Piezoresistive Pressure Transducer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High-temperature Piezoresistive Pressure Transducer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High-temperature Piezoresistive Pressure

Transducer 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 Kulite, Goodrich, Gefran, Kistler, AMETEK, Endevco (Amphenol), Sensata Technologies, Hydra-Electric, Auxitrol Weston, Althen 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 High-temperature Piezoresistive Pressure Transducer 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 High-temperature Piezoresistive Pressure Transducer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-temperature Piezoresistive Pressure Transducer Market, Segmentation by Type:

Silicon-on-Sapphire (SOS) Pressure Transducers

Silicon-on-Insulator (SOI) Pressure Transducers

Sputtered Thin Film Pressure Transducers

Global High-temperature Piezoresistive Pressure Transducer Market, Segmentation by Accuracy:

±1% FS

±1% FS

Global High-temperature Piezoresistive Pressure Transducer Market, Segmentation by Application:

Aerospace

Automotive

Petrochemicals

Medical

Food & Beverage

Others

Companies Profiled:

Kulite

Goodrich

Gefran

Kistler

AMETEK

Endevco (Amphenol)

Sensata Technologies

Hydra-Electric

Auxitrol Weston

Althen Sensors

Stork Solutions

DwyerOmega

EATON

ESI Technology

MinebeaMitsumi

SUCO ESI

Sensonetics

Key Questions Answered:

1. How big is the global High-temperature Piezoresistive Pressure Transducer market?
2. What is the demand of the global High-temperature Piezoresistive Pressure Transducer market?
3. What is the year over year growth of the global High-temperature Piezoresistive Pressure Transducer market?
4. What is the production and production value of the global High-temperature

Piezoresistive Pressure Transducer market?

5. Who are the key producers in the global High-temperature Piezoresistive Pressure Transducer market?

6. What are the growth factors driving the market demand?

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