

Global Manganin Piezoresistive Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Manganin Piezoresistive Sensors market size is expected to reach \$ 259 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

In 2024, global production of manganin piezoresistive sensors reached approximately 1.35 million units against an estimated production capacity of about 1.65 million units; with average unit price USD 120, and the market maintained an average gross margin of around 34%. Manganin piezoresistive sensors are precision sensing devices that exploit the stable piezoresistive effect of manganin?a copper?manganese?nickel alloy known for its exceptionally low temperature coefficient of resistance and high resistance stability under mechanical stress?to measure pressure, force, or strain with high accuracy and minimal thermal drift. The supply chain begins upstream with the production of high-purity copper, manganese, and nickel, followed by controlled alloy melting, rolling, and heat treatment to achieve the required resistivity and mechanical properties; midstream processes include precision wire drawing or thin-foil fabrication, strain-gauge patterning (etching or laser cutting), sensor assembly with substrates, insulation, and electrical leads, and rigorous calibration and aging to ensure long-term stability; downstream, these sensors are integrated into pressure transducers, load cells, and stress measurement systems and supplied to end users in aerospace, oil & gas, scientific instrumentation, industrial testing, and defense applications, where accuracy, repeatability, and resistance stability under harsh conditions are critical. This report studies the global Manganin Piezoresistive Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Manganin Piezoresistive Sensors 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 Manganin Piezoresistive

Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Manganin Piezoresistive Sensors total production and demand, 2021-2032, (K Units)

Global Manganin Piezoresistive Sensors total production value, 2021-2032, (USD Million)

Global Manganin Piezoresistive Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Manganin Piezoresistive Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Manganin Piezoresistive Sensors domestic production, consumption, key domestic manufacturers and share

Global Manganin Piezoresistive Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Manganin Piezoresistive Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Manganin Piezoresistive Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Manganin Piezoresistive Sensors 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, Sensata, TE Connectivity, Merit Sensor, BD|SENSORS, Metallux, Impress Sensors, BCM Sensor, Pewatron, HBM Test, 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 Manganin Piezoresistive Sensors 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 Manganin Piezoresistive Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Manganin Piezoresistive Sensors Market, Segmentation by Type:

Wire Type

Foil Type

Thin-film Type

Global Manganin Piezoresistive Sensors Market, Segmentation by Strain Range:

Low Range

Medium Range

High Range

Global Manganin Piezoresistive Sensors Market, Segmentation by Application:

Automotive

Aerospace & Defense

Industrial

Oil & Gas

Energy & Power

Others

Companies Profiled:

Honeywell

Sensata

TE Connectivity

Merit Sensor

BD|SENSORS

Metallux

Impress Sensors

BCM Sensor

Pewatron

HBM Test

Vishay Precision

Hitec Products

FUTEK

Sherborne Sensors

PCB Piezotronics

Gems Sensors

Key Questions Answered:

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

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