

# Global Manganin Piezoresistive Sensors Market Growth 2026-2032

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## Abstracts

The global Manganin Piezoresistive Sensors market size is predicted to grow from US\$ 158 million in 2025 to US\$ 252 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 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.

United States market for Manganin Piezoresistive Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Manganin Piezoresistive Sensors is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Manganin Piezoresistive Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Manganin Piezoresistive Sensors players cover Honeywell, Sensata, TE Connectivity, Merit Sensor, BD|SENSORS, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Manganin Piezoresistive Sensors Industry Forecast” looks at past sales and reviews total world Manganin Piezoresistive Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Manganin Piezoresistive Sensors sales for 2026 through 2032. With Manganin Piezoresistive Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Manganin Piezoresistive Sensors industry.

This Insight Report provides a comprehensive analysis of the global Manganin Piezoresistive Sensors 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 Manganin Piezoresistive Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Manganin Piezoresistive Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Manganin Piezoresistive Sensors and breaks down the forecast by Type, 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 Manganin Piezoresistive Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Manganin Piezoresistive Sensors market by product type, application, key manufacturers and key regions and countries.

**Segmentation by Type:**

Wire Type

Foil Type

Thin-film Type

**Segmentation by Strain Range:**

Low Range

Medium Range

High Range

**Segmentation by Application:**

Automotive

Aerospace & Defense

Industrial

Oil & Gas

Energy & Power

Others

**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

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 Addressed in this Report**

What is the 10-year outlook for the global Manganin Piezoresistive Sensors market?

What factors are driving Manganin Piezoresistive Sensors market growth, globally and by region?

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

How do Manganin Piezoresistive Sensors market opportunities vary by end market size?

How does Manganin Piezoresistive Sensors break out by Type, by Application?

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