

Global Flexible Resistive Strain Sensors Market Growth 2026-2032

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Abstracts

The global Flexible Resistive Strain Sensors market size is predicted to grow from US\$ 352 million in 2025 to US\$ 888 million in 2032; it is expected to grow at a CAGR of 14.2% from 2026 to 2032.

In 2025, global Flexible Resistive Strain Sensor output reached about 40 million units and global capacity of around 55 million units. The average price is about USD 9 per unit, with gross margins near 36%. Flexible resistive strain sensors are stretchable or bendable sensing devices that convert mechanical deformation (strain, bending, or stretching) into measurable electrical resistance changes, typically based on conductive materials such as carbon nanotubes (CNTs), graphene, metal nanowires, conductive polymers, or metallic thin films embedded in flexible substrates like PDMS, TPU, or polyimide. Their supply chain begins upstream with advanced functional materials (nanomaterials, conductive inks, elastomers, and flexible substrates), followed by midstream fabrication processes including printing (screen/inkjet), coating, lithography, and encapsulation to form sensor structures, and extends downstream to integration into systems such as wearable electronics, soft robotics, healthcare monitoring devices, automotive interiors, and human-machine interfaces, where OEMs and system integrators incorporate these sensors into end-use applications.

United States market for Flexible Resistive Strain 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 Flexible Resistive Strain 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 Flexible Resistive Strain 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 Flexible Resistive Strain Sensors players cover Vishay Precision Group, TE Connectivity, Honeywell, Peratech, Flexpoint Sensor Systems, 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 "Flexible Resistive Strain Sensors Industry Forecast" looks at past sales and reviews total world Flexible Resistive Strain Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Flexible Resistive Strain Sensors sales for 2026 through 2032. With Flexible Resistive Strain Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Flexible Resistive Strain Sensors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Flexible Resistive Strain 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 Flexible Resistive Strain Sensors.

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

Segmentation by Type:

Carbon-Based Sensors

Metal-Based Sensors

Polymer-Based Sensors

Composite Sensors

Segmentation by Stretchability Level:

Low-Strain Sensors (50%)

Segmentation by Application:

Medical Devices

Consumer Electronics

Automotive

Robotics

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.

Vishay Precision Group

TE Connectivity

Honeywell

Peratech

Flexpoint Sensor Systems

Tekscan

Grolltex

Tactilus

Alps Alpine

Kyowa Electronic Instruments

Tokyo Measuring Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Flexible Resistive Strain Sensors market?

What factors are driving Flexible Resistive Strain Sensors market growth, globally and by region?

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

How do Flexible Resistive Strain Sensors market opportunities vary by end market size?

How does Flexible Resistive Strain Sensors break out by Type, by Application?

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