

Global Flexible Resistive Strain Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Flexible Resistive Strain Sensors market size was valued at US\$ 370 million in 2025 and is forecast to a readjusted size of US\$ 894 million by 2032 with a CAGR of 13.4% during review period.

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.

This report is a detailed and comprehensive analysis for global Flexible Resistive Strain Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Flexible Resistive Strain Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Resistive Strain Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Resistive Strain Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Resistive Strain Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Flexible Resistive Strain Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Flexible Resistive Strain Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vishay Precision Group, TE Connectivity, Honeywell, Peratech, Flexpoint Sensor Systems, Tekscan, Grolltex, Tactilus, Alps Alpine, Kyowa Electronic Instruments, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Flexible Resistive Strain Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Carbon-Based Sensors

Metal-Based Sensors

Polymer-Based Sensors

Composite Sensors

Market segment by Stretchability Level

Low-Strain Sensors (50%)

Market segment by Application

Medical Devices

Consumer Electronics

Automotive

Robotics

Others

Major players covered

Vishay Precision Group

TE Connectivity

Honeywell

Peratech

Flexpoint Sensor Systems

Tekscan

Grolltex

Tactilus

Alps Alpine

Kyowa Electronic Instruments

Tokyo Measuring Instruments

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Flexible Resistive Strain Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flexible Resistive Strain Sensors, with price, sales quantity, revenue, and global market share of Flexible Resistive Strain Sensors from 2021 to 2026.

Chapter 3, the Flexible Resistive Strain Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flexible Resistive Strain Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Flexible Resistive Strain Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Flexible Resistive Strain Sensors.

Chapter 14 and 15, to describe Flexible Resistive Strain Sensors sales channel, distributors, customers, research findings and conclusion.

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