

Global Strain Gage Based Sensor Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Strain Gage Based Sensor market size will reach 1,787.67 Million USD in 2025 and is projected to reach 2,561.06 Million USD by 2032, with a CAGR of 5.27% (2025-2032). Notably, the China Strain Gage Based Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A strain gage-based sensor is a precise measurement device that uses strain gages to detect and quantify deformation or strain in a material. The strain gage, a small sensor with a thin conductive pattern, is attached to the surface of an object. When the object is subjected to force, pressure, or other mechanical stress, it deforms, causing the strain gage to stretch or compress. This change in the strain gage's dimensions alters its electrical resistance, which can be measured and correlated to the applied force or stress. Strain gage-based sensors are widely used in applications like load cells, pressure sensors, torque sensors, and structural monitoring, offering high accuracy and reliability in fields such as aerospace, civil engineering, and manufacturing.

The major global manufacturers of Strain Gage Based Sensor include HBK, Mettler-Toledo, Vishay, Flintec, MinebeaMitsumi, KeLi Sensing Technology, ZEMIC, Kistler, Guangdong South China Sea, Guangzhou Electrical Measuring Instruments Factory, LCT, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial

market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Strain Gage Based Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Strain Gage Based Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Strain Gage Based Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Strain Gage Based Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Strain Gage Based Sensor Include:

HBK

Mettler-Toledo

Vishay

Flintec

MinebeaMitsumi

KeLi Sensing Technology

ZEMIC

Kistler

Guangdong South China Sea

Guangzhou Electrical Measuring Instruments Factory

LCT

Strain Gage Based Sensor Product Segment Include:

Steel Sensor

Aluminum Sensor

Strain Gage Based Sensor Product Application Include:

Industrial and Commercial Weighing

Industrial Measurement and Control

Others

Chapter Scope

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