

# Global Wireless Tension Sensor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G8AFB754F274EN.html>

Date: October 2025

Pages: 133

Price: US\$ 3,480.00 (Single User License)

ID: G8AFB754F274EN

## Abstracts

According to our (Global Info Research) latest study, the global Wireless Tension Sensor market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A wireless tension sensor is a device that converts physical signals (i.e. tension or tension) into measurable electrical signals and transmits these signals wirelessly. It usually includes key components such as an elastic body, a strain gauge, a digital processing circuit board, a communication module, a battery, and an antenna. When the device under test is subjected to tension, the elastic body of the wireless tension sensor undergoes elastic deformation. The strain gauge attached to the inner wall of the elastic body cavity will deform with it, and its resistance will change (increase or decrease). The digital processing circuit board converts the resistance change collected by the strain gauge into an electrical signal (such as voltage or current). This process completes the process of converting external force into an electrical signal. Through the communication module and antenna, the processed electrical signal (i.e. load data) is wirelessly transmitted to the remote measurement and control terminal or data measurement and control center.

Wireless tension sensors are widely used in many fields such as industry, transportation, construction, energy, etc., especially in industrial automation, intelligent manufacturing, intelligent transportation, etc. They can realize remote monitoring and

data transmission, improve production efficiency and safety. With the rapid development of technologies such as the Internet of Things (IoT) and artificial intelligence (AI), wireless tension sensors have made significant improvements in accuracy, stability, reliability, etc. These technologies enable sensors to measure and transmit data more accurately, meeting the needs of various industries for precise measurement. In summary, the wireless tension sensor market is showing a rapid development trend at the current stage and will continue to grow in the future.

This report is a detailed and comprehensive analysis for global Wireless Tension Sensor 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 Wireless Tension Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Wireless Tension Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Wireless Tension Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Wireless Tension Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

#### 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 Wireless Tension Sensor
- 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 Wireless Tension Sensor 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, Honeywell, Interface, Loadstar Sensors, Shanghai Keli Weighing Equipment, Tianjin Lijing Microelectronics, Shenzhen Kepurui Sensor Instruments, Shenyang Gushan Technology, Shanghai Tingheng Scales, Hanzhong Jingce Electric Appliances, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Wireless Tension Sensor market is split by Type and by Application. For the period 2020-2031, 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

S

Plate Ring

Spoke

Other

### Market segment by Application

Industrial Automation

Aerospace

Construction Industry

Other

## Major players covered

Vishay Precision Group

Honeywell

Interface

Loadstar Sensors

Shanghai Keli Weighing Equipment

Tianjin Lijing Microelectronics

Shenzhen Kepurui Sensor Instruments

Shenyang Gushan Technology

Shanghai Tingheng Scales

Hanzhong Jingce Electric Appliances

Shanghai Henggang Instruments

Anhui Tianguang Sensors

Shanghai Jiuzhi Sensor Instruments

Futek Advanced Sensor Technology

Transducer Techniques

Dynisco

Kistler Group

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 Wireless Tension Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wireless Tension Sensor, with price, sales quantity, revenue, and global market share of Wireless Tension Sensor from 2020 to 2025.

Chapter 3, the Wireless Tension Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wireless Tension Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Wireless Tension Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Wireless Tension Sensor.

Chapter 14 and 15, to describe Wireless Tension Sensor sales channel, distributors, customers, research findings and conclusion.

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