

Global Dual-Channel Pressure Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Dual-Channel Pressure Sensor market size is expected to reach \$ 2855 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

In 2025, the production volume of dual-channel pressure sensors is projected to reach 288 million units, with an average selling price of \$7.50 per unit. The global annual production capacity for dual-channel pressure sensors stands at approximately 400 million units, with a gross margin of approximately 41.5%. A dual-channel pressure sensor is defined as a device that integrates two independent pressure-sensing channels (i.e., two distinct pressure-sensing elements) within a single sensor package, enabling the simultaneous or separate measurement of—and signal output for—two different pressure sources. Common applications include comparative measurement, differential pressure measurement, redundancy protection, and the parallel monitoring of pressure at different locations. The upstream supply chain for dual-channel pressure sensors comprises raw materials such as silicon wafers, strain gauge materials, substrates, and packaging auxiliaries. The midstream segment consists of the dual-channel pressure sensor manufacturers themselves, while the downstream market is primarily concentrated in the automotive, medical, and industrial sectors.

The current market for dual-channel pressure sensors is on a steady upward trajectory, driven primarily by robust demand from downstream sectors—such as automotive, industrial automation, and medical equipment—for highly integrated and high-precision sensing solutions. The competitive landscape is characterized by the coexistence of global semiconductor giants and specialized manufacturers within niche segments, while the focal point of technological competition is shifting from singular pressure measurement toward multifunctional integration (such as integrated temperature

monitoring) and miniaturization. With the advancement of the Industrial Internet of Things (IIoT) and the intelligent upgrading of equipment, dual-channel sensors—which simplify system design and enhance reliability—are increasingly becoming the mainstream choice; this trend is simultaneously fueling sustained market dynamism in the Asia-Pacific region, a key hub for both manufacturing and consumption.

This report studies the global Dual-Channel Pressure Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Dual-Channel Pressure Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Dual-Channel Pressure Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Dual-Channel Pressure Sensor total production and demand, 2021-2032, (K Units)

Global Dual-Channel Pressure Sensor total production value, 2021-2032, (USD Million)

Global Dual-Channel Pressure Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Dual-Channel Pressure Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Dual-Channel Pressure Sensor domestic production, consumption, key domestic manufacturers and share

Global Dual-Channel Pressure Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Dual-Channel Pressure Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Dual-Channel Pressure Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Dual-Channel Pressure Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Serta, CFSensor, Analog Devices, TE Connectivity, Infineon, Yokogawa, Baumer, Status Instruments, Danfoss, SENSATA, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Dual-Channel Pressure Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Dual-Channel Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Dual-Channel Pressure Sensor Market, Segmentation by Type:

Piezoresistive

Piezoelectric

Capacitive

Resonant

Others

Global Dual-Channel Pressure Sensor Market, Segmentation by Measuring Pressure:

Gauge Pressure Sensor

Absolute Pressure Sensor

Differential Pressure Sensor

Global Dual-Channel Pressure Sensor Market, Segmentation by Output Signal:

Analog Signal Output

Digital Signal Output

Global Dual-Channel Pressure Sensor Market, Segmentation by Accuracy:

$\pm 0.1\%$ FS and Above

$\pm 0.25\%$ FS – $\pm 1.0\%$ FS

Global Dual-Channel Pressure Sensor Market, Segmentation by Application:

Automotive

Medical

Industrial Automation

Aerospace

Consumer Electronics

Others

Companies Profiled:

Serta

CFSensor

Analog Devices

TE Connectivity

Infineon

Yokogawa

Baumer

Status Instruments

Danfoss

SENSATA

Senmol

Shanghai Zhichuan Electronic Tech

GOVA

SHANGHAI BOLIAN

SHENZHEN BUYSSENSOR TECHNOLOGY

Honeywell

Key Questions Answered:

1. How big is the global Dual-Channel Pressure Sensor market?
2. What is the demand of the global Dual-Channel Pressure Sensor market?
3. What is the year over year growth of the global Dual-Channel Pressure Sensor market?
4. What is the production and production value of the global Dual-Channel Pressure Sensor market?
5. Who are the key producers in the global Dual-Channel Pressure Sensor market?
6. What are the growth factors driving the market demand?

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