

Pressure Gauges Market - Forecast from 2026 to 2031

<https://marketpublishers.com/r/PEFADD57E550EN.html>

Date: January 2026

Pages: 143

Price: US\$ 3,950.00 (Single User License)

ID: PEFADD57E550EN

Abstracts

Pressure Gauges Market is anticipated to increase at a 3.0% CAGR, from USD 983.268 million in 2025 to USD 1173.889 million in 2031.

The global pressure gauges market is undergoing a significant transformation, driven by the convergence of industrial digitalization and the persistent demand for reliable pressure monitoring across core process industries. These instruments, essential for measuring and displaying the internal pressure of gases or liquids within a system, remain fundamental to operational safety, process integrity, and quality control. The market encompasses a range of technologies, from traditional mechanical gauges to advanced digital and connected devices. Growth is propelled by the expansion of key end-user sectors and the accelerating integration of smart technologies that enhance data accessibility and analytical capabilities.

Key Market Trends and Technological Evolution

A dominant trend shaping the market is the rapid digital transformation in pressure measurement. The advent of Industry 4.0 and smart factory initiatives is driving the development and adoption of intelligent pressure gauges. These devices integrate advanced features such as wireless connectivity (including protocols like WirelessHART), data logging, and seamless communication with Industrial Internet of Things (IIoT) platforms. This connectivity enables real-time pressure monitoring and remote pressure sensing, allowing for centralized data acquisition and analysis from distributed assets.

This technological shift supports the critical function of predictive maintenance. By providing continuous, historical pressure data, smart gauges facilitate the early detection of anomalies, pressure trends, and potential equipment failures. This capability allows industries to move from scheduled or reactive maintenance to a

predictive model, significantly reducing unplanned downtime, optimizing spare parts inventory, and improving overall operational efficiency. Furthermore, ongoing sensor miniaturization is enabling the design of more compact and versatile gauges, expanding their applicability in space-constrained environments within sectors like automotive and medical devices.

Primary End-User Industries and Demand Drivers

Demand is anchored in several process-intensive industries where precise pressure control is non-negotiable for safety and quality.

The pharmaceutical sector is a major driver, characterized by stringent regulatory requirements and the need for absolute process consistency. Pressure gauges are critical in equipment such as bioreactors, autoclaves, filtration systems, and clean utilities. They ensure precise pressure management during fermentation, purification, sterilization, and containment processes, where any deviation could compromise product sterility, efficacy, or batch integrity.

Similarly, the chemical industry relies heavily on robust and accurate pressure monitoring for safe operations. Gauges are deployed across reactors, distillation columns, pipelines, and storage tanks to monitor and control pressures in often volatile or hazardous processes. Their role in preventing over-pressurization, ensuring reaction efficiency, and protecting personnel and infrastructure is indispensable, fueling continuous demand as chemical production scales and diversifies.

The oil and gas sector represents another cornerstone of the market, demanding exceptionally durable and reliable instruments. From upstream exploration and drilling to midstream transportation and downstream refining, pressure gauges are vital for monitoring wellhead pressure, pipeline integrity, refinery process streams, and storage facilities. Their performance in extreme environments is crucial for operational safety, preventing leaks, and ensuring the efficient extraction and processing of hydrocarbons.

Regional Market Dynamics

The Asia-Pacific region is established as the dominant and fastest-growing market globally. This leadership is fueled by the region's rapid industrial expansion, significant investments in manufacturing infrastructure, and the strong growth of key end-user industries. The burgeoning pharmaceutical and medical device sectors, alongside expansive chemical manufacturing and ongoing oil and gas activities, create

concentrated demand for both standard and advanced pressure monitoring solutions. Government initiatives aimed at strengthening healthcare systems and industrial output further contribute to the region's pivotal role in driving market growth.

Market Challenges and Competitive Landscape

A notable challenge to the traditional market is the increasing availability and adoption of alternative electronic monitoring systems. Integrated sensor transmitters and comprehensive digital control systems offer capabilities such as continuous real-time data streaming, advanced diagnostics, and direct integration into distributed control systems (DCS). For certain applications, these alternatives can reduce the dependency on standalone gauges for primary process control, positioning them as complementary or competing solutions, particularly in new, fully digitalized greenfield facilities.

The competitive landscape includes established multinational instrumentation leaders and specialized manufacturers. Competition centers on technological innovation, product reliability, and application-specific expertise. Key players are actively expanding their portfolios with smart, connected gauges that offer long-range wireless communication, enhanced durability for harsh environments, and extended maintenance-free operation. Product development focuses on improving accuracy, longevity, and the ease of integration into broader plant analytics and asset management systems. Offerings range from robust liquid-filled gauges for high-vibration applications to sophisticated digital gauges with high-resolution displays and configurable outputs.

Market Outlook

The pressure gauges market is poised for sustained evolution, underpinned by enduring industrial needs and enhanced by digital innovation. While intelligent, connected devices represent the growing frontier, demand for reliable mechanical and conventional digital gauges remains robust across vast existing infrastructures and specific applications. The market's trajectory will be shaped by the pace of industrial automation, the proliferation of predictive maintenance strategies, and the specific requirements of regulated industries like pharmaceuticals and chemicals. The continued growth in Asia-Pacific's industrial base will be a primary geographical engine. Ultimately, the market will continue to serve the fundamental need for pressure visibility, with an increasing emphasis on transforming that data into actionable intelligence for safety, efficiency, and compliance.

Key Benefits of this Report:

Insightful Analysis: Gain detailed market insights covering major as well as emerging geographical regions, focusing on customer segments, government policies and socio-economic factors, consumer preferences, industry verticals, and other sub-segments.

Competitive Landscape: Understand the strategic maneuvers employed by key players globally to understand possible market penetration with the correct strategy.

Market Drivers & Future Trends: Explore the dynamic factors and pivotal market trends and how they will shape future market developments.

Actionable Recommendations: Utilize the insights to exercise strategic decisions to uncover new business streams and revenues in a dynamic environment.

Caters to a Wide Audience: Beneficial and cost-effective for startups, research institutions, consultants, SMEs, and large enterprises.

What do businesses use our reports for?

Industry and Market Insights, Opportunity Assessment, Product Demand Forecasting, Market Entry Strategy, Geographical Expansion, Capital Investment Decisions, Regulatory Framework & Implications, New Product Development, Competitive Intelligence

Report Coverage:

Historical data from 2021 to 2025 & forecast data from 2026 to 2031

Growth Opportunities, Challenges, Supply Chain Outlook, Regulatory Framework, and Trend Analysis

Competitive Positioning, Strategies, and Market Share Analysis

Revenue Growth and Forecast Assessment of segments and regions including countries

Company Profiling (Strategies, Products, Financial Information, and Key Developments among others.

Pressure Gauges Market Segmentation:

By Type

- Absolute Pressure Gauge
- Differential Pressure Gauge
- Diaphragm Pressure Gauge
- Others

By Material

- Brass
- Steel
- Plastic

By Product Type

- Digital
- Analog

By End-User

- Automotive
- Chemical
- Pharmaceuticals

Oil & Gas

Aerospace & Defence

Others

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

UAE

Others

Asia Pacific

China

India

Japan

South Korea

Indonesia

Thailand

Others

Contents

1. EXECUTIVE SUMMARY

2. MARKET SNAPSHOT

- 2.1. Market Overview
- 2.2. Market Definition
- 2.3. Scope of the Study
- 2.4. Market Segmentation

3. BUSINESS LANDSCAPE

- 3.1. Market Drivers
- 3.2. Market Restraints
- 3.3. Market Opportunities
- 3.4. Porter's Five Forces Analysis
- 3.5. Industry Value Chain Analysis
- 3.6. Policies and Regulations
- 3.7. Strategic Recommendations

4. TECHNOLOGICAL OUTLOOK

5. PRESSURE GAUGES MARKET BY TYPE

- 5.1. Introduction
- 5.2. Absolute Pressure Gauge
- 5.3. Differential Pressure Gauge
- 5.4. Diaphragm Pressure Gauge
- 5.5. Others

6. PRESSURE GAUGES MARKET BY MATERIAL

- 6.1. Introduction
- 6.2. Brass
- 6.3. Steel
- 6.4. Plastic

7. PRESSURE GAUGES MARKET BY PRODUCT TYPE

- 7.1. Introduction
- 7.2. Digital
- 7.3. Analog

8. PRESSURE GAUGES MARKET BY END-USER

- 8.1. Introduction
- 8.2. Automotive
- 8.3. Chemical
- 8.4. Pharmaceuticals
- 8.5. Oil & Gas
- 8.6. Aerospace & Defence
- 8.7. Others

9. PRESSURE GAUGES MARKET BY GEOGRAPHY

- 9.1. Introduction
- 9.2. North America
 - 9.2.1. USA
 - 9.2.2. Canada
 - 9.2.3. Mexico
- 9.3. South America
 - 9.3.1. Brazil
 - 9.3.2. Argentina
 - 9.3.3. Others
- 9.4. Europe
 - 9.4.1. Germany
 - 9.4.2. France
 - 9.4.3. United Kingdom
 - 9.4.4. Spain
 - 9.4.5. Others
- 9.5. Middle East and Africa
 - 9.5.1. Saudi Arabia
 - 9.5.2. UAE
 - 9.5.3. Others
- 9.6. Asia Pacific
 - 9.6.1. China
 - 9.6.2. India

- 9.6.3. Japan
- 9.6.4. South Korea
- 9.6.5. Indonesia
- 9.6.6. Thailand
- 9.6.7. Others

10. COMPETITIVE ENVIRONMENT AND ANALYSIS

- 10.1. Major Players and Strategy Analysis
- 10.2. Market Share Analysis
- 10.3. Mergers, Acquisitions, Agreements, and Collaborations
- 10.4. Competitive Dashboard

11. COMPANY PROFILES

- 11.1. Honeywell International Inc.
- 11.2. Emerson Electric Co
- 11.3. AMETEK.Inc.
- 11.4. WIKA Group
- 11.5. Omega Engineering, Inc
- 11.6. Excel Instruments
- 11.7. General Instrument Consortium
- 11.8. Italmanometri
- 11.9. Watts Water Technologies
- 11.10. BCST Group Co. Ltd

12. APPENDIX

- 12.1. Currency
- 12.2. Assumptions
- 12.3. Base and Forecast Years Timeline
- 12.4. Key Benefits for the Stakeholders
- 12.5. Research Methodology
- 12.6. Abbreviations

I would like to order

Product name: Pressure Gauges Market - Forecast from 2026 to 2031

Product link: <https://marketpublishers.com/r/PEFADD57E550EN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/PEFADD57E550EN.html>