Pressure Transmitter Market is USD 4.19 billion by 2031 Growing Demand for Industrial Automation & Smart Manufacturing

Pressure transmitters play a crucial role in optimizing energy consumption by monitoring and controlling flow rates in HVAC, water management, & energy sectors.

Pressure Transmitter Market

AUSTIN, TX, UNITED STATES, October 29, 2024 /EINPresswire.com/ -- The Pressure Transmitter Market Size was valued at USD 3 billion in 2023 and is now anticipated to grow to USD 4.19 billion by 2031, displaying a compound annual growth rate (CAGR) of 3.8% during the forecast period of 2024-2031.

Pressure Transmitters: Key Drivers of Automation and Safety in Diverse Industries

> The rapid adoption of automated systems, combined with advances in real-time data analysis capabilities, is significantly boosting the demand for pressure transmitters across diverse industries."
>
> *SNS Insider*

The Pressure Transmitter Market is witnessing substantial growth, driven by the increasing demand for automation technologies across various industrial sectors. These devices are essential for minimizing human intervention by providing precise measurements of pressure, level, and flow key for optimizing operational efficiency and safety. Built to endure extreme weather, including full water immersion, pressure transmitters are highly reliable for both indoor and outdoor applications. Their role in monitoring, data collection, and analysis aids industries in boosting productivity and identifying patterns that help mitigate risks and prevent accidents.

Pressure transmitters are utilized across a wide range of industries, from oil and gas to food and beverage, with growing demand in sectors prioritizing predictive maintenance and real-time data

analysis. The rise of the Industrial Internet of Things (IIoT) and Industry 4.0 initiatives further propels market growth by fostering smarter, connected systems. With a steady growth trajectory and the presence of major players, this market is moderately consolidated, posing challenges for smaller companies while spurring innovation, including wireless connectivity for remote monitoring. Such advancements, coupled with diagnostic features that offer real-time performance insights, are expected to reduce downtime and fuel market growth in the forecast period.

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Major The Key Players of Pressure Transmitter Market
Siemens AG, Schneider Electric SE, ABB Ltd, Honeywell International Inc, Rockwell Automation, Inc, Dassault Systèmes SE, General Electric (GE) Digital, SAP SE, Emerson Electric Co, AVEVA Group plc, Dassault Systèmes SE, Oracle Corporation

Segmentation Analysis: Differential Pressure Transmitters and Liquid Fluid Types Lead the Pressure Transmitter Market with Dominant Shares in 2023

By Type: The Differential pressure transmitters dominate the Pressure Transmitter Market, holding a 53% share in 2023. Their versatility makes them essential for measuring flow, level, and pressure across multiple industries. Utilizing various pressure-sensing technologies, they are commonly applied in level detection and flow measurement, especially when paired with primary elements such as orifice plates, venturi tubes, and flow nozzles. This adaptability has established them as the most widely used type of pressure transmitter.

By Fluid Type

The Liquid Fluid Type segment dominated the market share over 75% in 2023, driven by its widespread use in measuring non-hydrocarbon liquids and fluid pressure in areas like water and wastewater management. Gauge and differential pressure transmitters are commonly employed to assess hydrostatic levels in liquid storage tanks and groundwater pumps, establishing liquid-based applications as the leading segment.

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Key Market Segments

By Type
- Absolute
- Gauge
- Differential Pressure

• Multivariable

By Fluid Type
• Liquid
• Gas
• Steam

By Application
• Level
• Pressure
• Flow

Key Regional Developments: Asia Pacific Leads Market with Over 32.2% Share, Driven by Rapid Industrialization, Digitalization, and IIoT Advancements

Asia Pacific region dominated the market share over 32.2%. Key drivers of the market include the region's rapid industrialization, widespread digitalization, and the integration of the Industrial Internet of Things (IIoT). IIoT facilitates seamless system integration, boosting demand for advanced transmitters that provide accurate, real-time data transmission. Countries like China, Japan, and India, which are home to major manufacturing hubs, significantly contribute to market growth through rising automation demands and infrastructure investments.

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Recent Development

In February 2024: Yokogawa introduced the “OpreX Lifecycle Management for Pressure” subscription service. This service offers remote monitoring, diagnostics, and maintenance support specifically for Yokogawa pressure transmitters. By providing these features as a subscription, Yokogawa enables clients to leverage advanced monitoring without a high upfront cost.

In November 2023: SOR Controls Group released three new models of the 1800PR piezoresistive gauge pressure transmitters. These transmitters feature stainless-steel housing and multiple pressure measurement options, making them ideal for a range of applications, from oil and gas to HVAC systems.

In September 2023: Emerson launched the Rosemount 550 Pressure Transmitter series. This product is designed for extreme environments, providing highly accurate data even in corrosive or high-temperature conditions. The Rosemount 550 also supports wireless connectivity, allowing remote access and reducing on-site visits for monitoring.

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