

## **Tire Pressure Monitoring System (TPMS) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

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### **Report description:**

The Global Tire Pressure Monitoring System Market was valued at USD 8.2 billion in 2024 and is estimated to grow at a CAGR of 11.7% to reach USD 24.2 billion by 2034.

This market continues to evolve rapidly as manufacturers and consumers place increased importance on road safety, fuel economy, and compliance with strict vehicle safety standards. Enhanced interest in smart mobility and connected vehicle systems has led to rising demand for advanced TPMS solutions. Today's TPMS offerings go far beyond basic tire pressure alerts, enabling real-time diagnostics, predictive maintenance, and seamless integration with digital vehicle systems. This shift is particularly relevant in the context of rising electric vehicle production and the growing emphasis on ADAS compatibility. As a result, TPMS is no longer seen as a standalone safety component but rather as an essential element of a broader, intelligent automotive ecosystem. The post-pandemic landscape has further accelerated digitalization, compelling vehicle manufacturers and fleet operators to prioritize smart tire monitoring solutions that reduce downtime, optimize tire life, and enhance vehicle performance. The direct TPMS segment held a 65% share in 2024 and is forecasted to grow at a 11% CAGR through 2034. Direct systems are favored due to their precise, sensor-based monitoring that provides real-time tire pressure readings and early alerts, enabling safer driving and better fuel efficiency. Unlike indirect systems, direct TPMS deploys pressure sensors on each tire that communicate directly with the vehicle's control system, helping drivers react faster to pressure anomalies. This high level of accuracy and regulatory approval across multiple regions makes direct TPMS the dominant technology segment.

The passenger vehicles segment held a 75% share in 2024 and is projected to grow at a CAGR of 12% through 2034. As automotive production volumes expand globally, consumers and manufacturers are increasingly aware of the need to implement advanced safety systems. Since tire pressure significantly affects driving performance, fuel consumption, and comfort, passenger cars stand to gain the most from TPMS technology. Regulatory requirements in major automotive hubs across North America, Europe, and Asia are further reinforcing its integration across standard and premium models.

United States Tire Pressure Monitoring System (TPMS) Market held an 82% share and generated USD 2.2 billion in 2024. The country remains at the forefront of TPMS adoption due to its mature automotive manufacturing sector, established vehicle safety standards, and widespread public awareness about vehicle maintenance. Strong regulatory frameworks and high consumer

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demand for advanced in-vehicle technologies have led to the broad implementation of both OEM and aftermarket TPMS solutions. The presence of a technologically progressive automotive industry has also supported ongoing innovation, particularly in EVs and commercial vehicle applications.

Major industry participants driving innovation and market expansion include Sensata Technologies, Continental, NXP Semiconductors, Denso, Robert Bosch, Delphi Technologies, ZF Friedrichshafen, Valeo, Pacific Industrial, and Hella. Leading companies in the TPMS industry are leveraging product innovation, system integration, and strategic partnerships to strengthen their market foothold. A primary focus has been on enhancing sensor accuracy, reducing latency in real-time data transmission, and improving battery efficiency for wireless modules. Many are also incorporating software-driven platforms that enable predictive tire analytics and seamless connectivity with vehicle telematics systems. As demand for EV-compatible solutions grows, key players are developing lighter, energy-efficient TPMS suited for next-generation vehicles.□

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