

Global Tyre Pressure Monitoring System (TPMS) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6AE771ED4B5EN.html>

Date: April 2026

Pages: 124

Price: US\$ 4,480.00 (Single User License)

ID: G6AE771ED4B5EN

Abstracts

The global Tyre Pressure Monitoring System (TPMS) market size is expected to reach \$ 7745 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

Tyre Pressure Monitoring System (TPMS) is a system that uses sensors installed on each wheel of a vehicle to monitor tire conditions. It records real-time safety data such as tire pressure and temperature, and connects wirelessly to the vehicle's built-in or external instrument clusters, alerting the driver to changes in data and driving safety status. TPMS effectively prevents tire blowouts, improves vehicle safety, and keeps tires in optimal condition, ensuring fuel economy and tire lifespan. A complete TPMS system typically consists of four transmitters (sensors) and one controller (receiver).

Upstream inputs include automotive-grade MEMS pressure dies, MCUs and RF transceivers (commonly 315/433 MHz), antennas and passives, primary batteries, valve-stem hardware, seals, injection-molded housings, and calibration/diagnostic software. Downstream splits into OEM fitment and aftermarket replacement; the aftermarket typically carries higher price realization due to parts distribution and service.

In 2025, global tyre pressure monitoring system (TPMS) production reached approximately 140 million sets, with an average global market price is \$28 per set.

Tire Pressure Monitoring Systems, or TPMS, are active safety and efficiency features that continuously monitor tire inflation pressure and alert the driver when pressure deviates materially from the specified level. Their value goes beyond convenience: they help reduce the risk of loss-of-control events, longer braking distances, abnormal tire wear, and premature tire failures. In the United States, FMVSS 138 sets performance

requirements including a low-pressure warning when one or more tires drop 25% or more below the placard cold inflation pressure, and it also addresses malfunction indication?anchoring TPMS as a mainstream, compliance-critical feature.

The market is shifting from regulation-led adoption to experience and fleet value. First, architectures are moving from basic warning to more robust data delivery and diagnostics?especially for direct systems where battery life, RF reliability, sensor identification, and serviceability define real-world performance. Second, regulatory scope is expanding; within the UN framework, rules such as R141 are extending TPMS expectations across broader vehicle categories and trailer-related use cases, accelerating commercialization in commercial and fleet segments. Third, TPMS is increasingly integrated into connected-vehicle and fleet-management workflows, turning single-vehicle alerts into fleet-level predictive maintenance and measurable uptime and cost benefits.

Opportunity concentrates in three growth curves. One is structural expansion in heavy-duty, trailer, and fleet environments as regulation and operating-economics align. The second is premiumization of direct TPMS through lower false alarms, faster detection, better interference robustness, and lower lifecycle service cost. The third is aftermarket and services?sensor replacement, relearn/diagnostics tooling, and standardized maintenance programs?creating recurring revenue and channel leverage.

By principle, direct versus indirect TPMS: direct systems use in-wheel sensors to measure pressure and transmit it wirelessly, while indirect systems infer pressure changes from wheel-speed behavior and related signals?driving different accuracy, response, and service profiles. By route-to-market, OEM versus aftermarket. By application, passenger/light vehicles versus commercial fleets, where requirements shift toward continuous operation, remote visibility, and maintainability.

Regionally, North America is strongly shaped by compliance requirements and a mature OEM-plus-service ecosystem. Europe remains standards-driven and is pushing broader category coverage that lifts commercial-vehicle adoption potential. Asia-Pacific benefits from scale manufacturing, rapid feature penetration, and supply-chain efficiency.

This report studies the global Tyre Pressure Monitoring System (TPMS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tyre Pressure Monitoring System (TPMS) 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 Tyre Pressure Monitoring System (TPMS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tyre Pressure Monitoring System (TPMS) total production and demand, 2021-2032, (K Sets)

Global Tyre Pressure Monitoring System (TPMS) total production value, 2021-2032, (USD Million)

Global Tyre Pressure Monitoring System (TPMS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sets), (based on production site)

Global Tyre Pressure Monitoring System (TPMS) consumption by region & country, CAGR, 2021-2032 & (K Sets)

U.S. VS China: Tyre Pressure Monitoring System (TPMS) domestic production, consumption, key domestic manufacturers and share

Global Tyre Pressure Monitoring System (TPMS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sets)

Global Tyre Pressure Monitoring System (TPMS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

Global Tyre Pressure Monitoring System (TPMS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

This report profiles key players in the global Tyre Pressure Monitoring System (TPMS) 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 Sensata Technologies, Baolong Automotive, Sysgration Ltd., Continental, Pacific Industrial, Sate Auto Electronic, Lianchuang Automotive Electronics, CUB ELECPARTS INC, Steelmate, Autel Automotive Intelligence, 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 Tyre Pressure Monitoring System (TPMS) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sets) and average price (US\$/Set) 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 Tyre Pressure Monitoring System (TPMS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tyre Pressure Monitoring System (TPMS) Market, Segmentation by Type:

Direct TPMS

Indirect TPMS

Global Tyre Pressure Monitoring System (TPMS) Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Tyre Pressure Monitoring System (TPMS) Market, Segmentation by Vehicle:

Internal Combustion Engines

New Energy Vehicles

Global Tyre Pressure Monitoring System (TPMS) Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Sensata Technologies

Baolong Automotive

Sysgration Ltd.

Continental

Pacific Industrial

Sate Auto Electronic

Lianchuang Automotive Electronics

CUB ELECPARTS INC

Steelmate

Autel Automotive Intelligence

Orange Electronic

Bendix Corporation

Hamaton Automotive

NIRA Dynamics

Key Questions Answered:

1. How big is the global Tyre Pressure Monitoring System (TPMS) market?
2. What is the demand of the global Tyre Pressure Monitoring System (TPMS) market?
3. What is the year over year growth of the global Tyre Pressure Monitoring System (TPMS) market?
4. What is the production and production value of the global Tyre Pressure Monitoring System (TPMS) market?
5. Who are the key producers in the global Tyre Pressure Monitoring System (TPMS) market?
6. What are the growth factors driving the market demand?

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