



The Fleet Manager's Guide to  
**TIRE PRESSURE  
MONITORING  
SYSTEMS**

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# WHY TIRE HEALTH CAN'T BE IGNORED.

Tires are one of the most overlooked assets in fleet operations, but also one of the most critical. Underinflated or failing tires don't just put vehicles at risk; they lead to costly breakdowns, wasted fuel, unexpected downtime, and safety violations. For mixed fleets in industries like construction, oil and gas, transportation, and equipment rental, even one tire failure can throw off timelines, reduce profit margins, and create safety concerns.

Tire Pressure Monitoring Systems (TPMS) give fleet and operations managers the visibility they need to stay ahead of these issues. With real-time pressure and temperature data, you can catch problems before they become expensive failures and keep your fleet moving safely and efficiently.

In this guide, we'll cover how TPMS works, why it matters, and how to implement it across your fleet. Whether you manage a handful of vehicles or hundreds of mixed assets, this guide will help you take the next step toward smarter and safer tire management.





# WHAT IS BLUETOOTH TPMS?

Tire Pressure Monitoring Systems (TPMS) utilize Bluetooth Valve Mounted sensors to track the air pressure and temperature inside each tire, sending real-time data directly to your fleet management platform or mobile device.

Unlike traditional wired or indirect systems, these TPMS sensors are easy to install and maintain. The sensors are mounted directly on the valve stems and communicate via Bluetooth through a gateway, eliminating the need for hardwiring.

This makes Bluetooth TPMS a flexible and scalable solution for mixed fleets operating in rugged environments like construction sites, oil fields, or remote job locations. Whether you're monitoring a single heavy-duty truck or dozens of trailers and off-road equipment, Bluetooth TPMS helps you stay on top of tire issues before they cause downtime or safety risks.

## HOW DOES IT WORK?

How it works:

- Sensors detect low pressure and high pressure, tire temperature, or rapid pressure loss
- Data is sent wirelessly to your fleet management software
- Alerts can be sent to drivers, dispatchers, or maintenance teams

Bluetooth TPMS combines reliability with simplicity, giving fleet operators the insights they need without the hassle of a complex installation or maintenance process.







# KEY BENEFITS



## **Prevent Blowouts and Tire Failures**

Catch underinflation, overheating, or slow leaks early, before they lead to costly blowouts or roadside service calls.



## **Make Maintenance Faster and Smarter**

Technicians get instant access to real-time and historical tire data, helping them pinpoint problems quickly and prioritize repairs. No more manual checks or guesswork.



## **Reduce Fuel Consumption**

Properly inflated tires reduce rolling resistance, which means better fuel economy across the entire fleet.



## **Support CSA Score Compliance**

Stay compliant with DOT and CSA tire standards by documenting tire health and catching violations before they happen.



## **Extend Tire Life**

Consistent pressure monitoring prevents uneven wear and helps you get the most out of every tire.



## **Improve Driver Safety**

Drivers are alerted to issues in real time, allowing them to respond before small problems become safety risks.





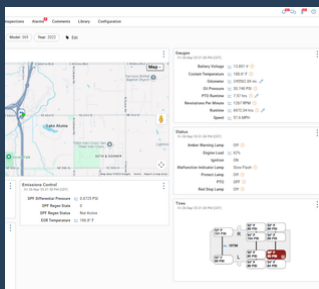
# HOW TPMS INTEGRATES WITH FLEET MANAGEMENT SYSTEMS

A Tire Pressure Monitoring System is most effective when it's part of your larger fleet management strategy. With Pedigree Technologies, Bluetooth TPMS works seamlessly with your other tools to provide a full view of vehicle and asset health.



## REAL-TIME ALERTS

When the pressure from a tire drops below your set pressure threshold or shows signs of overheating, alerts are sent immediately to the right people. This quick response helps reduce the risk of failure and keeps your vehicles on the road.



## TIRE INSIGHTS

All tire pressure and temperature data are available inside your fleet dashboard. Managers and maintenance teams can easily monitor the condition of every tire across your fleet without having to rely on manual checks.



## PREVENTIVE MAINTENANCE

TPMS collects and stores tire data over time, giving you the ability to spot patterns, schedule maintenance proactively, and make informed decisions on tire replacements. This helps prevent unexpected issues and reduces long-term costs.



# IS YOUR OPERATION A GOOD FIT FOR TPMS?

Bluetooth TPMS is a smart and easy upgrade for fleets that rely on uptime, safety, and accurate field data. If your fleet involves heavy-duty vehicles, mixed assets, or equipment operating in tough or remote environments, TPMS can deliver real value.

Industries like construction, oil and gas, transportation, and equipment rental all face similar challenges:

- Tires exposed to rough terrain and heavy loads
- Difficulty performing regular manual tire checks
- Pressure to reduce downtime, improve safety, and cut operating costs

If that sounds familiar, your fleet is a strong candidate for Bluetooth TPMS.

## TRY OUR TPMS ROI CALCULATOR





# INTRIGUED?



## QUESTIONS TO ASK A VENDOR

Not all TPMS solutions are created equal. ask the right questions and look for a system that's built for flexibility and real-world conditions.

- Is the TPMS compatible with all my asset types?
- How is the data displayed and shared across my team?
- Are the sensors easy to install and replace?
- What kind of alerts and reporting are available?
- Does the system integrate with my current telematics or maintenance system?
- How is battery life managed for the sensors?





## ABOUT PEDIGREE TECHNOLOGIES

Pedigree Technologies is a privately-owned, tech company focused on providing reliable and expertly crafted telematics solutions to improve fleet and asset management. Serving diverse industries including transportation, oil and gas, construction, and heavy equipment, we redefine what's possible in fleet/asset monitoring technology by connecting the unconnected. Our customer-centric approach ensures personalized support tailored to the unique needs of each fleet, driving greater success through enhanced customer satisfaction and loyalty.

CRAFTED TELEMATICS FOR *YOUR* UNIQUE NEEDS.