



## TIRE MONITOR SYSTEM

Direct tire pressure  
monitoring for large  
off-road vehicles



### Product Overview

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- TMS Sensors
- TMS Receivers
- TMS Operator Interface
- TMS Manager



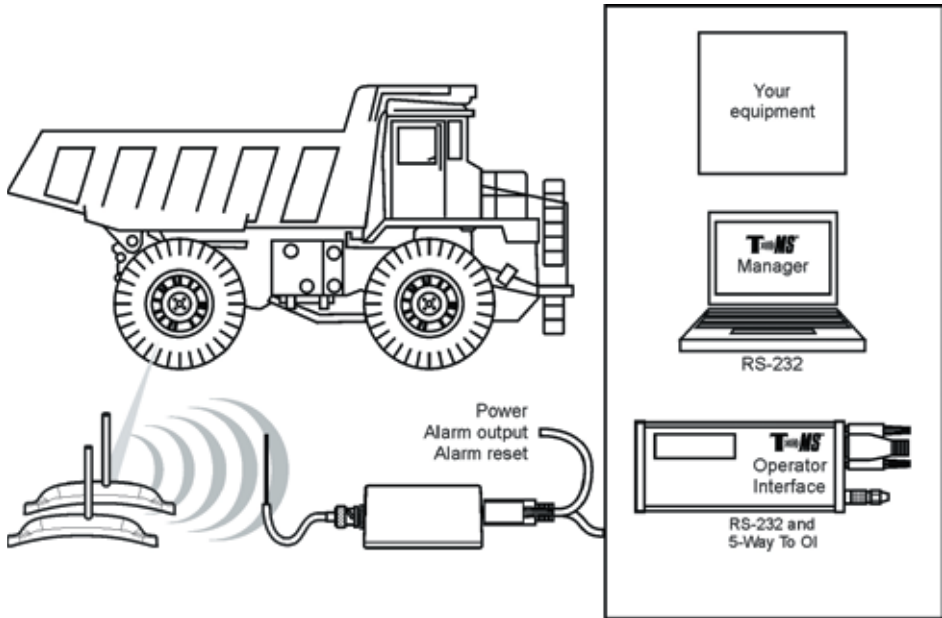
TMS fitted on a Caterpillar 6 wheel rigid dump truck.



TMS Operator Interface driver display unit fitted and operational in the cab.



Sensor being patched to the tire side wall.



## Sensors

Patched to the inside of the tire on the low flex side wall. Transmits tire pressure data to the **Receiver**.

## Receiver

Mounted in the vehicle cab. Decodes transmissions from **Sensors**. Connected to the **Operator Interface**.

## Operator Interface

Mounted so the driver can see the tire pressure data and alarm status. Real time logged data.

## TMS Manager

PC application used to configure the system with sensor ID codes and alarm thresholds. Logged data can be downloaded and viewed.

## Tire pressure monitoring-real time

### Why monitor tire pressure

Good tire management will improve the profitability of your business as tire maintenance and repair are a significant part of your operating costs. Using Tire Monitor System, it can alert you in **real time** of any potential problems and help you avoid accelerated wear, improve fuel efficiency and reduce tire failures.

*TMS technology offers complete visibility of the tire pressure data in real time so you can keep tires running at optimum performance.*



### Benefits of TMS

The innovative Tire Monitor System TMS can help decrease your downtime and reduce your operating costs by giving you accurate tire pressure data. It can help you improve fuel efficiency, increase tire life and **keep you moving**.

TMS does this by presenting tire pressure information to the driver and manager:

- Real time, continuous display in the cab so your **drivers** can make decisions whilst on shift.
- Data is stored in memory with a time stamp so that your **managers** can download and view to see historical tire pressure data and a history of the alarms.

Showing real time data to drivers gives you some unexpected benefits - the driver will know whether or not a tire with a slow loss of pressure will **complete the shift**, or if there is sufficient pressure to drive to a convenient place for tire checking.

## Evaluation Kit



### Everything you need to evaluate TMS on your vehicles...

- 6 TMS2 Sensor attached to tire patch
- 1 TMS11 Receiver
- 1 TMS27 Operator Interface
- 3 BNC Antennas (4m, 8m 16m)
- 1 TMS cable harness
- 1 USB-Serial converter
- 1 Serial-Serial cable
- 1 Data sheet
- 1 Quick start guide



## TMS Sensor

A small, battery powered sensor is mounted to each tire using standard tire patch products and patching techniques. The sensor monitors tire pressure and temperature and continuously transmits data via radio to the Receiver.

Order #: TMS2



- Pressure range: 6 to 185 PSI absolute
- Pressure accuracy: +/-2PSI up to 150PSI, +/-3PSI 150PSI to 185PSI
- Temperature measurement range: -25 to +125 deg C
- Transmissions: Every 5 minutes and when there is a change in pressure
- Every sensor has a unique ID code
- Transmission frequency: 433.92MHz
- Battery life: 4.8 years typically

## TMS Receiver

The receiver is mounted in the vehicle and can receive data from up to sixteen sensors. It's powered by the vehicle supply and it monitors the data from each sensor, reporting any alerts.

Order #: TMS11

- Comms: RS232
- Transmission frequency: 433.92MHz
- Voltage supply: +10 to +36 V DC
- Current consumption: 30 mA typically
- Fused
- Operating temperature: -10 to +55 deg C
- Configured through TMS Manager



## Cable harness

A 2 meter long cable harness that connects the Receiver and Operator Interface to the vehicle power supply.

Order #: CABASSTMS27

## TMS Operator Interface

Displays tire pressure data for each allocated wheel and any alarm conditions. It logs tire data into memory for later recall and each record is time stamped. The unit is connected to the receiver via a 2m long cable so that it can be sited in the best position for the driver to see.

Order #: TMS27

- Connects to TMS Receiver using cable harness
- Displays the status of each tire including pressure
- Displays for up to 6 tires.
- Logs receptions with real time stamp
- Configured through TMS Manager
- Supports alarms: low pressure, high pressure, high temperature, low battery and reception timeout.



## TMS Manager

TMS Manager, a **PC program**, enables you to set the alarm conditions for each tire and to monitor results. TMS Manager can also be used to download the data logged by the Operator Interface and display it graphically.

Order #: The latest version of TMS Manager can be downloaded from our web site [www.tiremonitorsystem.com/downloads.html](http://www.tiremonitorsystem.com/downloads.html)



## BNC Antenna

The Receiver can accept up to four antenna inputs. The number of antennas required and position they are sited will depend on the application.

Order #: BNC



**TIRE MONITOR SYSTEM**

TMS is a product developed and marketed by AM Bromley

## **A M BROMLEY LIMITED**

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