



FMS TPMS

TIRE PRESSURE MONITORING SYSTEM



GATEWAY (RECEIVER)



TRANCEIVER (REPEATER)



SENSORS



Checking the vehicle's tire pressure and temperature using the regular gauge is good, but now it is far better using the most innovative tools that can measure the pressure and temperature accurately and efficiently.

A tire-pressure monitoring system (TPMS) is an electronic system designed to monitor the air pressure inside the pneumatic tires on various types of vehicles.

With the FMS sensor installed into each tire, fleet managers and drivers can immediately get the status of all tires of the vehicle with less effort. TPMS reports real-time tire pressure & tire temperature information to the driver, as well as the

control room. The purpose of the tire pressure monitoring system (TPMS) in the vehicle is to warn, that at least one or more tires are significantly under-inflated or over-inflated, possibly creating unsafe driving conditions.

This innovation is beneficial in terms of reducing traffic accidents, improving fuel economy, and reducing tire wear due to improperly inflated tires by early recognition of a hazardous state of the tires. This is one of the most reliable solutions which can monitor and maintain the security of all tires of your fleet, to ensure the safety of your driver and your assets while on the road.

KEY FEATURES:

GATEWAY (RECEIVER)

- Easy installation, reliable performance
- UART(TTL) /RS232 connector to FMS to show pressure & temperature
- High-and low-pressure warnings can be preset by users
- High temperature warnings can be preset by users
- High pressure, low pressure, high temperature and fast leakage alert
- Long communicating distance
- Multiple coding method

TRANCEIVER (REPEATER)

- Maintains signal stability.
- Records sensor ID, trailer ID and tire pressure and temperature limits.
- Supports truck and trailer exchange.
- Transferable trailer sensor data between monitor and transceiver.
- Visible and audible alerts.
- Fixed alert for high temperature (90°C)

SENSORS

- Reliable cap sensors, easy to install
- Water resistant
- Replaceable sensor batteries
- Fast leakage alert
- Individually coded sensors
- Anti-theft design

APPLICABLE INDUSTRIES:



Oil and Gas



Municipality



Transport



Rent a car



Customs



Construction



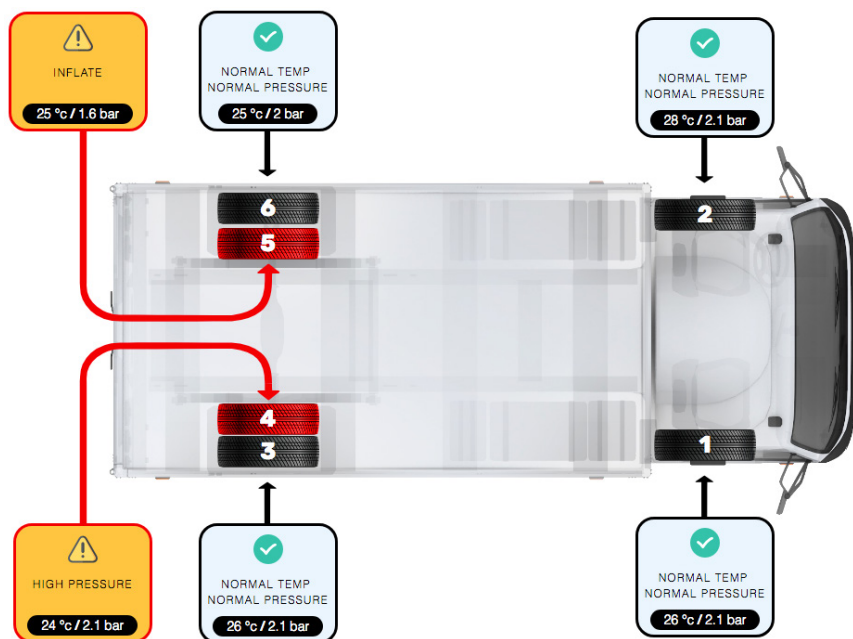
Distribution



Supply chain

FMS Tire Pressure Monitoring System

TIRE STATUS REPORT



Direct tire pressure monitoring systems (direct sensor TPMS) refers to the use of a pressure sensor directly mounted on the tires of a vehicle. The TPMS sensor is a small electronic assembly which is rugged enough to be mounted on the stem valve of the tire. The sensors are exposed to hostile environments, hence, they are robust in nature.

These sensors measure the tire pressure using a microelectromechanical system (MEMS) pressure sensor along with other information. It includes a serial number, temperature, acceleration, and the status of the complete tire pressure monitoring system with the information being subsequently transmitted wirelessly to the TPMS Gateway installed in the vehicle. The purpose of serial number is to ignore transmissions from other vehicles operating in near the field of the TPMS Gateways.

SENSORS:	PRODUCT CODE: FMS-40999500-000
GATEWAY (RECEIVER):	PRODUCT CODE: FMS-40999500-001
TRANCEIVER (REPEATER):	PRODUCT CODE: FMS-40999500-002

TECHNICAL SPECIFICATION

GATEWAY (RECEIVER)

Operational Temperature	-20° C +80° C
Storage Temperature	-30° C +85° C
Working Voltage	12 / 24 V
Transmission Power	<18 dBm
Transmission Frequency	433.92 MHz
Size	92(L) x 40(W) x 15(H) mm
Weight	47 g
Communication	RS232, 9600 bps

TRANCEIVER (REPEATER)

Operational Temperature	-20° C +80° C
Storage Temperature	-30° C +85° C
Working Voltage	12 / 24 V
Transmission Power	<18 dBm
Transmission Frequency	433.92 MHz
Size	77(L) x 63(W) x 16(H) mm
Weight	108 g

SENSORS

Operational Temperature	-40° C ~ 80° C
Storage Temperature	-40° C ~ 85° C
Pressure Range	0~13 bar, 0~188 psi
Pressure Accuracy	1.5 psi (0.1 bar)
Temperature Accuracy	2° C
Transmission Power	<10 dBm
Transmission Frequency	433.92 MHz
Battery Life	2 years (CR1632 -40° C ~ 80° C)
Weight	15.4 g
Size	24 mm (diameter) 19.5 mm (height)

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