

Integration with ContiConnect Pressure Check

Reduce your overall operating costs by controlling tire pressure

Frotcom is integrated with Continental's ContiConnect Pressure Check tire monitoring system. The system continuously measures the pressure and temperature of all the tires in your vehicles, allowing you to save fuel, increase mileage and reduce the risk of tire failure.

Your fleet's tires literally support all the activity of your vehicles. No wonder then that the conditions in which they run have such a big impact on costs and safety.

Now, with Frotcom, you can follow up closely these conditions, namely by controlling pressure and temperature. Not only you detect and even anticipate tire failures, you can also improve the total mileage ran on each tire, by keeping tire pressure within the recommended interval.



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How we help

Once connected to Continental's ContiConnect Pressure Check tire monitoring system with the ignition on, Frotcom allows you to monitor each tire's pressure and temperature.

You can define the pressure and temperature limits for each vehicle. If Frotcom detects an out-of-bounds situation, an alert will be generated, which can be sent to the corresponding driver and anyone else in the organization.

Because underinflated tires can lead to high operating costs*, all tires should have their inflation pressure kept in the recommended interval. However, monitoring tire pressures does not always happen as frequently as it should.

By monitoring your tires on a permanent basis, even while travelling, you will lower your operating costs and minimize the risk of tire failure.

* According to Continental, you can actively reduce operating costs by up to EUR 1,500 per vehicle a year. This calculation is based on a 4 x 2 tractor with three-axle semi-trailer, driving 140,000 km per year (assumed price of diesel: 1 € / L), and including an estimated cost of EUR 700, also per year, for one tire-related breakdown incident.

Benefits

Reduce operating costs

By driving with the correct air pressure, you reduce fuel consumption and the corresponding cost.

Improve security and reduce downtimes

Permanent monitoring prevents tire-related breakdowns that can lead to vehicle downtimes, job delays, and, worse than that, accidents.

Extend tire lifetime

By running your tires at the recommended conditions, you increase the mileage for each tire and maintain the value of the tire casing and, thus, its retreadability.

Eco-friendly behavior

By traveling at the correct inflation pressure, your vehicles not only lower fuel consumption and reduce tire wear, they also decrease CO2 emissions and consequently protect the environment.

Free your drivers for other tasks

Because tire pressure monitoring is now done automatically, you do not need to have your drivers frequently check it. Their time can be better spent on other activities.

"Since we fitted our vehicles with tire sensors, we haven't had any tire related downtimes!"

How it works

Frotcom's integration with Continental's ContiConnect Pressure Check tire monitoring system uses the following :

1. Tire sensors

Each tire is fitted with a battery-powered wireless tire sensor. The sensors are mounted inside a rubber housing on the tire's inner liner. When the ignition is on, they continuously measure the tire pressure and temperature.

2. Central communication unit

All sensors communicate wirelessly with a central unit. This unit collects information from all sensors regarding pressure, temperature, and battery status.

3. Frotcom tracking device

Frotcom's tracking device appends the tire data collected to other data being sent in real-time to Frotcom's data center (GPS data, CANBus, data, etc.)

4. Battery status

In case Frotcom detects that the battery fitted in a sensor is low, it will generate the corresponding alert so that the sensor can be substituted.

5. Data processing

The tire-related data is processed in Frotcom's data center and compared to the prescribed intervals. If the pressure or temperature falls outside those intervals, alerts are generated. Frotcom can also automatically characterize pressure falling as being slow leaking or fast leaking.

6. Receiving an alert

Alerts are sent to the drivers, for instance, by using the onboard Driver app. Hence, drivers can react accordingly and correct the problem in due time.

7. Semitrailers

The system can acknowledge cases in which trucks (the tractor heads) are coupled with semitrailers equipped with tire sensors. It will automatically recognize the new semitrailer and report the pressure and temperature of its tires.

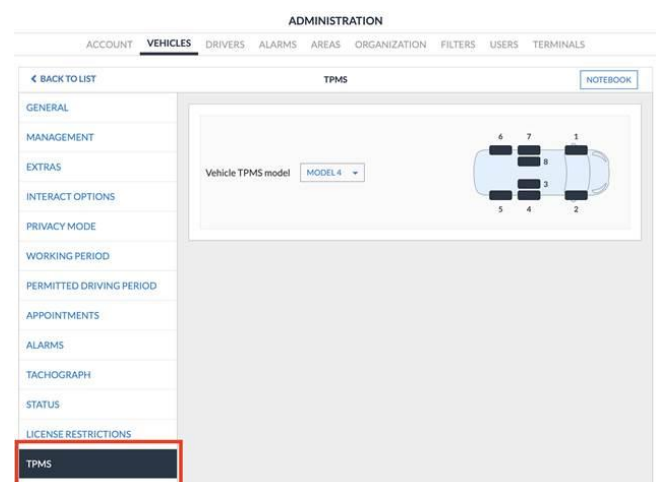
Main features

- Automatic monitoring of tire conditions: pressure and temperature
- Alerts sent to drivers and other people in the organization so that situations can be corrected immediately
- Detection of low battery (in sensors)
- Multiple layouts for different vehicle models and a combination of truck and semitrailer, to a maximum of 24 tires. It is suitable for tractors, trailers, tractor/trailer combinations, as well as buses and coaches
- Wireless communication from sensors to the Central communication unit

Other related features you might be interested in

- Driver app
- Fuel management
- Driving behavior analysis
- Advanced dashboard
- Driver coaching

Set up of the TPMS model in Frotcom



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