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# KRONE TPMS – THE SMART TYRE PRESSURE MONITORING SYSTEM

**Krone Smart TPMS, for even extreme conditions**

From 6 July 2024, active tyre pressure monitoring systems will be required by law, for all commercial trailers over 3.5 tonnes. For this reason, Krone has developed the Krone Smart Tyre Monitoring System (TPMS), which can already be installed in all vehicles.

The Krone Smart TPMS transmits both tyre pressure data and current temperatures from inside the individual wheels. This data is displayed to the driver in the tractor unit and sent over-the-air to the fleet manager at the same time. The efficiency of the fleet can be increased by this overview of the entire fleet. The correct tyre pressure reduces fuel consumption and thus also $CO_2$ emissions. Likewise, expensive follow-up costs, such as increased tyre wear due to incorrect inflation pressures and, in the worst case, tyre bursts, can be avoided.

**Reliable alarms in all situations**

Tyre pressures are dependent on many factors: the speed of the vehicle, heaviness of the load and geographical conditions (topography). In addition, temperature has a great influence on tyre pressures. In order to be able to evaluate this information independently, the Krone tyre pressure sensors also pick up the temperature data and put it into context along with the measured pressures, the speed and the tonnage of the respective vehicle.

In order to raise the quality of the alarm recommendations to an even higher level, the live data collected is compared with the data from other vehicles using Big Data analysis for each vehicle. Krone then makes the knowledge gained available with the help of dynamic alarms.

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**Krone Smart TPMS: technology in detail**

Each wheel in the trailer has a separate sensor, to determine the pressure and temperature. This data is transmitted via Bluetooth to the Krone Smart Collect (KSC) telematics box, which passes the data on to the tractor unit. In addition, the data can be sent via mobile radio to the Krone Telematics Portal and to the Krone Telematics App, as well as via API to programmes specified by the users.

The Krone Telematics Portal also offers fleet operators the possibility to create their own alarms and thus map all conceivable scenarios during transport. Thanks to continuous monitoring with the Krone Smart TPMS, both a gradual and a sudden loss of pressure can be detected, so that air can be topped up and the damaged area repaired as quickly as possible.

**If you have any questions, please do not hesitate to contact me.:**
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