
Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

113th session

Geneva, 15-17 May 2023

Item 5 (a) of the provisional agenda

16 May 2023

Proposals for amendments to annexes A and B of ADR: Construction and approval of vehicles

Transmitted by the Government of the Netherlands

Summary

1. Sensors for tyre pressure monitoring systems that are fitted on, or in the wheel send information from the (rotating) wheels to a receiver on the chassis of the vehicle. For this it is energized by a small battery that would be exempted from ADR requirements based on 1.1.3.7.
 2. However, if the vehicle is of the EX/III or FL category in a zone where an explosive atmosphere may be present, the sensor should or be de-energized or comply with the IEC 60079 series of standards as appropriate in 9.2.2.9. As they cannot be de-energized presently they would have to comply with 9.2.2.9.
 3. WP.15 is asked to confirm that the exemption of 1.1.3.7 does not exempt tyre pressure sensors from the requirements of 9.2.2.9. for FL vehicles.
 4. In addition it should be considered that the tyre pressure sensors come in two specific types. One type is fitted within the pressure chamber formed by tyre and rim, the other type is exposed on the outside of the rim secured under the wheel nuts. As an explosive atmosphere will not enter the tyre, which contain air or nitrogen, the sensor inside the pressure chamber of the tyre-rim combination need not necessarily be in compliance with the standards in 9.2.2.9 even if in a zone where an explosive atmosphere may be present.
 5. WP.15 is asked to confirm that sensors on EX/III and FL vehicles, inside the pressure chamber are not required to comply to the requirements of 9.2.2.9.
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