

---

# Findings from the accuracy experiment of devices measuring friction coefficient of road surfaces in the Czech Republic

Čestmír KOPŘIVA\* — Leoš NEKULA\*\* — Josef STRYK\*\*\*

\* *Road and Motorway Directorate, Čerčanská 12, 14000 Prague, Czech Republic*  
[cestmir.kopriva@rsd.cz](mailto:cestmir.kopriva@rsd.cz)

\*\* *Měření PVV, Hybešova 36, 682 01 Vyškov, Czech Republic*  
[l.nekula@seznam.cz](mailto:l.nekula@seznam.cz)

\*\*\* *CDV-Transport Research Centre, Líšeňská 33a, Brno, 636 00, Czech Republic*  
[josef.stryk@cdv.cz](mailto:josef.stryk@cdv.cz)

---

## Abstract

In 2018, an round robin test (accuracy experiment) of devices measuring longitudinal friction coefficient of road surfaces was organized in the Czech Republic. It was carried out according to the requirements of the technical regulation of the Ministry of Transport TP 207: 2017: Accuracy experiment of devices for measuring of road surface characteristics and road deflection.

The paper describes the course of this experiment, evaluation of measurements made by participating measuring devices and its conclusions. Furthermore, information on the upgraded version of the TRT measuring device, which will be operational in the first half of 2019, is mentioned there. The TRT device has the status of a national reference device for measuring the longitudinal friction coefficient and the results of other devices are converted to its level.

## Keywords

round robin test, longitudinal friction coefficient, TRT device

## Reference

1. TP 207: Accuracy experiment of devices for measuring of road surface characteristics and road deflection, technical regulation of the Ministry of Transport of the Czech Republic, 2017
2. Kopřiva Č. TP 207: Accuracy experiment, presentation at the meeting of Road surface characteristic group, Czech road society, 1. 3. 2019, Prague
3. CEN TS 15901- 4: Road and airfield surface characteristics—Part 4: Procedure for determining the skid resistance of pavements using a device with longitudinal controlled slip (LFCT): Tatra Runway Tester (TRT)