

Metrology & Hallmark

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Functional solutions in the dynamic mass measurements used to determine the vehicle mass in motion (WIM)

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[bending plates](#) [motorway WIM systems](#)

Abstract

The article discusses the principle of operation, mounting and the current measurement capabilities of one of the functional solutions – the bending plates – applied currently in the pre-selection WIM systems on the example of the solution installed on the A2 motorway. Also indicated what activities, in the opinion of the Central Office of Measures should be taken to be able to use the WIM systems based on the bending plates for administrative purposes in the future.

Bibliography

- [1] L. Rafalski: Bezpieczeństwo ruchu drogowego w Polsce ze szczególnym uwzględnieniem pojazdów ciężkich. Materiały Konferencyjne: Bezpieczeństwo w transporcie drogowym i kolejowym. Warszawa 2012.
- [2] R. L. Ossowski, P. Burnos: Ważenie pojazdów w ruchu. Stan obecny oraz perspektywy zastosowania systemów Weigh-In-Motion w celach administracyjnych. Biuletyn GUM, vol. 8-9 (2015).
- [3] J. Gajda, R. Sroka, M. Stencel, T. Żegleń, P. Piwowar, P. Burnos, Z. Marszałek: Design and accuracy assessment of the multi-sensor weigh-in-motion system. IEEE international Instrumentation and Measurement Technology Conference, 2015.
- [4] D. Cornu: The Role of Quartz Sensors for Bridge Applications.
- [5] J. I. Craig: AE3145 Resistance Strain Gage Circuits. Course Materiale, Georgia Institute of Technology, Atlanta, GA 2000.
- [6] J. Gajda, R. Sroka, M. Stencel, T. Żegleń: Multi-sensor weigh-in-motion system. International Conference on Heavy Vehicles HV, 2008.
- [7] J. G. Strathman: The Oregon DOT Slow-Speed Weigh-In-Motion (SWIM) project. Portland State University, 1998.

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