

Press release

Proven accuracy at high speeds

Kistler is awarded best-in-class OIML certificate for Weigh In Motion system

Winterthur, November 2020

The 9835A Weigh In Motion system from Kistler was recently awarded a second OIML certificate. This provides official confirmation that the system accurately measures overall weights and axle loads of trucks at speeds of up to 120 km/h (and even 140 km/h for vans). The performance was achieved using only two rows of Lineas sensors – making it the best system currently available on the market.

Soaring traffic volumes in many parts of the world are confronting governments as well as road owners and operators with major challenges. Overloaded trucks demand particular attention, because vehicle weight exerts an exponential influence on road wear and tear. With this knowledge in mind, growing numbers of operators are seeking solutions that can efficiently monitor their road infrastructure and ensure detection as well as direct enforcement of overloaded vehicles.

Traffic monitoring and weight enforcement made easy

Weigh In Motion (WIM) solutions in the KiTraffic series from Kistler deliver a comfortable, automated solution for monitoring traffic and protecting roads against damage by overloaded vehicles. Lineas sensors integrated in the road surface accurately measure gross vehicle weight and axle loads, with measurement data available in real time as the basis for further action. And now, one of the solutions in Kistler's portfolio – the 9835A Weigh In Motion system – has been officially certified for correct measurement of different truck types at speeds of up to 120 km/h as well as vans at up to 140 km/h.

The sought-after certificate was issued by the Czech Metrology Institute (CMI), a member of the International Organization of Legal Metrology (OIML). Valid throughout the world, OIML certificates are generally acknowledged as proof of the excellence of measuring equipment. Tomas Pospisek, Global Market Development Manager for Road & Traffic at Kistler, comments: "Every country applies its own regulations for direct enforcement, but the OIML standard can be viewed as a common starting-point for local legislation."

Best OIML certificate of available WIM systems

Several hundred test runs were completed with vehicles of different types (5-axle, 4-axle, 2-axle and vans), either in loaded or unloaded condition and at varying speeds of up to 140 km/h. Pospisek

again: “We met the requirements of accuracy class F10 for all vehicle types at all speeds – but that’s not all. We actually achieved this result with only two rows of Lineas sensors – proving that the 9835A from Kistler is the best system in its class that is available on today’s market.”

The WIM solution from Kistler offers many more superior features: it can handle very high axle loads (up to 30 tons each), and there is no overall limitation on maximum measurable weight. Lineas quartz sensors have a 20-year track record of successful operation at temperatures ranging from –40 to +80°C. Benefits such as these make the system suitable for universal use throughout the world – and now it comes with the additional advantage of proven, certified accuracy under real-life conditions.

Learn more about Weigh In Motion systems from Kistler at www.kistler.com/wim

Image material (please name the Kistler group as picture source)



The 9835A Weigh In Motion system from Kistler was awarded a new OIML certificate in 2020, confirming its ability to accurately measure gross vehicle weight and axle loads of trucks at speeds of up to 120 km/h and vans at up to 140 km/h.



Kistler WIM systems help to protect road infrastructure and improve traffic safety in more than 50 countries worldwide.



The new OIML test campaign for the 9835A Weigh In Motion system from Kistler was conducted on a closed test track that allowed very high speeds.

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About the Kistler Group

Kistler is the global market leader for dynamic pressure, force, torque and acceleration measurement technology. Cutting-edge technologies provide the basis for Kistler's modular solutions. Customers in industry and scientific research benefit from Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. Unique sensor technology from this owner-managed Swiss corporation helps to shape future innovations not only in automotive development and industrial automation but also in many newly emerging sectors. Drawing on our extensive application expertise, and always with an absolute commitment to quality, Kistler plays a key part in the ongoing development of the latest megatrends. The focus is on issues such as electrified drive technology, autonomous driving, emission reduction and Industry 4.0. Some 2,200 employees at more than 60 facilities across the globe are dedicated to the development of new solutions, and they offer application-specific services at the local level. Ever since it was founded in 1959, the Kistler Group has grown hand-in-hand with its customers and in 2019, it posted sales of CHF 466 million. About 7% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.