

Press release

Practical digital documentation sets an end to paper-based system

New Weigh In Motion app from Kistler facilitates installation of new sensors

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Weigh In Motion (WIM) technology owes its success to its practicability: Sensors in the road surface record the weight of vehicles while driving – without impairing the flow of traffic. To date, the installation process has involved a considerable inconvenience: having to document the process on paper forms. Thanks to a new app from sensor manufacturer Kistler, documentation is not only easier and more practical, but also comes with the extra advantage of real-time support from WIM specialists.

WIM technology protects roads and bridges as well as collecting data for statistics. The installation usually only takes a few hours. If installed properly, WIM sensors from Kistler are extremely robust. However, external factors, such as the weather on the day of installation or road conditions, can have a significant impact on the durability of measurement equipment and sensors. These factors also influence the quality of measurements. For instance, when installed in a wet slot, the adhesion of the grout will be weak, leading to bad fixation of the sensors in the road. In order to guarantee the sensors' longevity and accuracy and to grant the customer full warranty, the installation process has to be documented carefully. Usually, this means filling out pages-long paper forms at the installation site. This is rarely very practicable – especially during a night-time installation or when standing in the middle of a road in windy weather. The forms are often lost or illegible, or technicians simply forget about them.

WIM app: Installation guide, documentation and instant feedback

Thanks to the new WIM app from Kistler, documentation is now more practical and less time-consuming. Technicians can easily enter relevant information using a modern smart phone: The site is located via GPS, a photo of the installation plan functions as the basic site layout and close-up photos of the pavement suffice as documentation of the road conditions. The sensor is identified by scanning its bar code. The app is clearly structured and guides users through the steps in the installation process. Green symbols indicate that the form is completed. The data is then submitted to Kistler and assessed by a specialist for immediate feedback and support. The on-site technician receives a PDF report for each WIM site and is notified that Kistler has approved the installation. The app can be used by any registered technician and is available for IOS and Android.

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



Precision is key: If installed properly, WIM sensors from Kistler are extremely robust.



The app guides the technician through the installation process. The green checks indicate that the document is ready for submission.

Easy data entry and less paper work: Photos of the installation plan and the pavement suffice as documentation.

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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.