

## Press release

### **Innovative data logging: Kistler complements measuring chain for vehicle development**

Data acquisition in automotive testing: new DAQ software KiStudio VT consolidates everything

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**The Kistler Group is expanding its product portfolio for automotive testing with KiStudio Vehicle Testing (VT), a new software for data acquisition. In addition, thanks to new modules and the acquisition of CAN FD data, the KiDAQ data acquisition system can now also be used in vehicle development. This means that complex vehicle tests with different sensors and high channel counts can now be performed all from one single source with a measuring chain from Kistler – from the sensors all the way to data analysis.**

Modern automotive testing requires a growing number of sensors that generate ever larger quantities of valuable data. Test setups are becoming increasingly complex, and as a result, the requirements for data acquisition and analysis are increasing as well. In order to create more consistency and increase efficiency during development, Kistler is offering new products that complete the measurement chain for vehicle test applications: the DAQ software KiStudio VT and the extended data acquisition system KiDAQ – now also with CAN FD – provide customers with a complete measurement chain for vehicle testing from one single source. Developers benefit from greater efficiency, fewer sources of error and shorter development times thanks to the seamless integration of all test components.

#### **More than 500 channels in one measuring system**

With KiStudio VT, several KiDAQ systems can be connected for over 500 measurement channels in a single test. All connected sensors can be easily and intuitively integrated and configured via software. Data recording can be visualized in real time. Plus, users can also perform calculations, use filters and set triggers. Over 1,000 signals per system are possible when recording via CAN and CAN FD. Data acquisition is synchronized across all devices via precision time protocol (PTP).

On the hardware side, the KiDAQ universal data acquisition system from Kistler has been expanded to include additional modules for vehicle applications: the KiDAQ controllers in the 5552A series have four CAN or CAN FD interfaces and are therefore ideal for data acquisition in vehicle testing. Thanks

to KiDAQ's modular architecture, customers can flexibly adapt test setups for vehicle dynamics testing, long-term load studies or other applications.

## Flexible and variable measuring chains from sensor to data analysis

A typical setup for vehicle durability testing could include different sensors for recording force, acceleration, positions and temperatures – for example, wheel force transducers, piezo force sensors, accelerometers, potentiometers, and thermocouples from Kistler. All these sensors, supplemented by customer-specific solutions or third-party products, are seamlessly connected to the universal data acquisition system KiDAQ.

With KiStudio VT, all connected systems can be intuitively configured, monitored and synchronized. The DAQ software also supports the acquisition of CAN and CAN FD signals via the new KiDAQ module 5552A, meaning that even extensive data streams can be processed. Other Kistler systems such as KiRoad Wireless, KiTorq DS and Correvit can also be connected. Analog and digital channels can be visualized, recorded and analyzed in parallel. Post-processing is carried out with the connected analysis software jBEAM from Kistler.

With the help of modular architecture and complete integration, Kistler offers a flexible measuring chain that can be adapted to the specific requirements of any vehicle test project – from data acquisition to analysis, all from one single source. Find out more about the new measuring chain from Kistler at [www.kistler.com/vehicletesting](http://www.kistler.com/vehicletesting) and get in touch for a personal consultation.

## Image material (please name the Kistler Group as picture source)



Data acquisition in automotive testing: Thanks to the new KiStudio VT and expanded KiDAQ, development tasks can now be carried out consistently and efficiently with a complete measurement chain from Kistler.



The new DAQ software KiStudio VT from Kistler allows for convenient control and visualization of complex test setups with over 500 channels with direct connection to Kistler's data analysis software jBEAM.



Data acquisition made easy: Even complex vehicle tests with many sensors can be performed efficiently with the combination of the DAQ system KiDAQ and DAQ software KiStudio VT.

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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 posted sales of CHF 465 million in 2023. About 9% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.