

Press release

Universal data acquisition system

New KiDAU for efficient crash test measurements

Winterthur, November 2019

KiDAU Stationary, the universal data acquisition system, is the solution of choice for crash test measurements in laboratory test facilities. The system combines a variety of measurement technologies to deliver high levels of efficiency and reliability as well as extended functionality: a concept that has been thought through from start to finish. A 19" rack carrier allows users to deploy different combinations of plug-in modules.

Kistler is introducing the new stationary KiDAU K3880AS – a universal data acquisition system for efficient crash test measurements. Thanks to this stationary version, the outstanding performance and high reliability of Kistler's mobile onboard systems are now available in laboratory environments. Possible applications include dummy preparation and certification as well as component tests.

Numerous interfaces ensure expansion capability

The base unit includes integrated interfaces to the external crash test infrastructure. Existing onboard devices can be connected directly via four CL2 interfaces. The case for the KiDAU data acquisition system is executed in the standard 19" design and is cooled without a fan. Modular architecture allows it to accommodate up to eight plug-in I/O modules.

16 digital input modules

Two input modules are currently available: the KiDAU K3840AS is a unit with 16 digital input channels. It can store crash test data in a 1,800-second cycle with a sampling rate of 100 kHz. The benefit: users can begin recording even before a test is actually started.

Analog inputs with 16-bit AD converter

The KiDAU K3880AS unit features eight analog inputs. Each channel comprises a programmable input amplifier, bridge excitation circuit, low-pass filter and a 16-bit analog-to-digital converter. All settings can be made via software, automatically or with commands.

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



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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 2018, it posted sales of CHF 475 million. About 8% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.