

## Press release

### Vehicle testing for the digital age

Kistler extends DTI technology, renders car development more efficient

Winterthur, March 2019

**Kistler's DTI (Digital Transducer Interface) technology provides the automotive industry with a future-focused solution that takes vehicle dynamics and durability testing to a new level of efficiency. Kistler now has enhanced the capacity of the DTI data logger and added a network function for several devices.**

As the first and even today, only manufacturer on the market to do so, Kistler, the automotive industry's technology partner, enables efficient test setups with a variety of practical benefits like automatic sensor detection. For carmakers with only limited resources for the necessary testing, DTI offers an efficient option of speeding up their processes without compromising on precision, reliability and safety.

#### **Simple installation saves time and money**

Kistler provides users with an end-to-end measuring chain from sensors and the DTI logger to the user interface with KiCenter software – to perform, for instance, the vehicle dynamics "straight-line braking" test to DIN 70028. Use of just a single cable in the complex test setup to configure the sensors, transfer and synchronize measurement data and supply the power ensures efficient, time-saving routines and lets the user focus on their measuring tasks. DTI generates added value even in smaller-scale applications and can be scaled up flexibly.

#### **Efficient test setups also for complex measurement tasks**

Comprehensive vehicle dynamics, durability and tire tests cover a host of physical variables such as acceleration, brake pressure, expansion, steering forces and torques, side-slip angle, temperature etc. Kistler has now significantly enhanced the capacity of the measurement solution in order to easily capture and analyze all these characteristics with its DTI bus system.

The new DTI logger comes with eight DTI ports with 12 channels, so that a total of 96 sensors can be connected per logger. The logger offers sampling rates of 500 to 20,000 Hz and a power supply up to 240 W. And that is far from all: as of now, you can link up three DTI loggers to a network with the new SyncSwitch – raising the connection capacity to a total of 288 sensors. All the transducers connected to the DTI network are also automatically synchronized.

## Integrate any sensors into the synchronized network

Kistler's update of the DTI logger and the advanced network capability provide customers with an integrated system for efficient test setups and a variety of different sensors that are easy to integrate, configure and put into operation. The measurement technology is further optimized in close cooperation with the customer and provided as an all-in-one solution package for specific applications.

The smaller selection of DTI-enabled sensors, which frequently resulted in the use of a CAN-to-DTI converters, is now past history thanks to Kistler's updating of its entire vehicle dynamics sensor portfolio for direct DTI integration. Third-party products can also already be equipped with a DTI interface and thus included in the synchronized digital network.

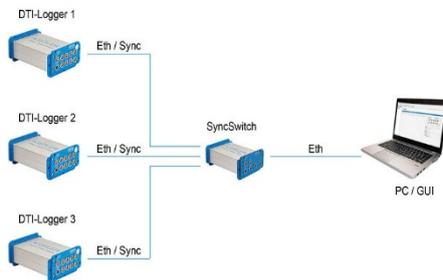
## Image material (please name the Kistler group as picture source)



New advances in Kistler's DTI technology boost the efficiency of comprehensive vehicle dynamics and durability tests.



The new DTI logger from Kistler provides 96 measuring channels.



Kistler's SyncSwitch now allows synchronized connection of three DTI loggers in one network – for complex and holistic test setups with up to 288 sensors.

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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.