Next Generation Crash Test Data Acquisition

With the crash performance of modern vehicles continually being improved, both the vehicle safety systems and the test requirements are becoming much more complex. These changes drive measurement technology improvements in many areas. The updated Kistler Data Acquisition Unit (KiDAU) and the Crash Recorder DTI375 add new features for conventional and in-dummy digital data recording.

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Kistler Data Acquisition Unit (KiDAU)

The latest version of the KiDAU adds an interchangeable Sensor Distribution (SD) panel to permit the use of all sensor harness connector types. In operations where multiple connector types are utilized, reliability of data collection is improved due to the potential for damage to adapters and cables being minimized.

This is achieved with minimum impact on the physical size and weight of the unit. Two versions are available – the Classic and the Advanced – the Advanced adding a number of additional features.

Kistler's 'CrashDesigner' crash test software makes operation of the KiDAU Advanced particularly user friendly, as cable-free communication is possible with configuration, control, and data readout all performed via Wireless LAN (WLAN).

Key Features

- Interchangeable sensor distribution panel
- 32 analog, 16 digital standard measurement channels
- Dimensions: 231x64x90 mm weight: 2,2 kg
- Internal battery power up to 25 min.
- Sampling rates up to 100 kHz
- Max. data storage of 100 s per channel @ 100 kHz

Benefits

- Saves space
- User-friendly operation
- Guaranteed data quality
- Supreme reliability through minimizing cable damage

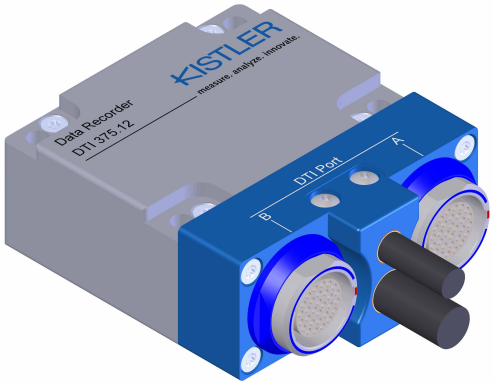
Crash Recorder DTI375

The new Crash Recorder DTI375 supports Kistler's Digital Transducer Interface (DTI) Technology – providing a further reduction in physical size for in-dummy digital data recording.

DTI Technology digitizes the sensor data directly at the individual sensor, allowing data from up to 12 sensors to be transmitted via one bus cable within the dummy to a digital data recorder. A single Ethernet cable then provides the data download route to the outside after the recorded event has been completed. With this technology, extensive cable bundles – both internally in the dummy and to the outside – for data acquisition are a thing of the past.

In addition to the physical size reduction, the Crash Recorder DTI375 adds flash memory and Start-Record functionality to the DTI Technology products to meet a wider range of requirements.

The Crash Recorder DTI375 is available in 4-, 8- or 12-port versions, providing either 48, 96 or 144 measurement channels. The device is compatible with software packages 'DTI Control' and 'CrashDesigner'.

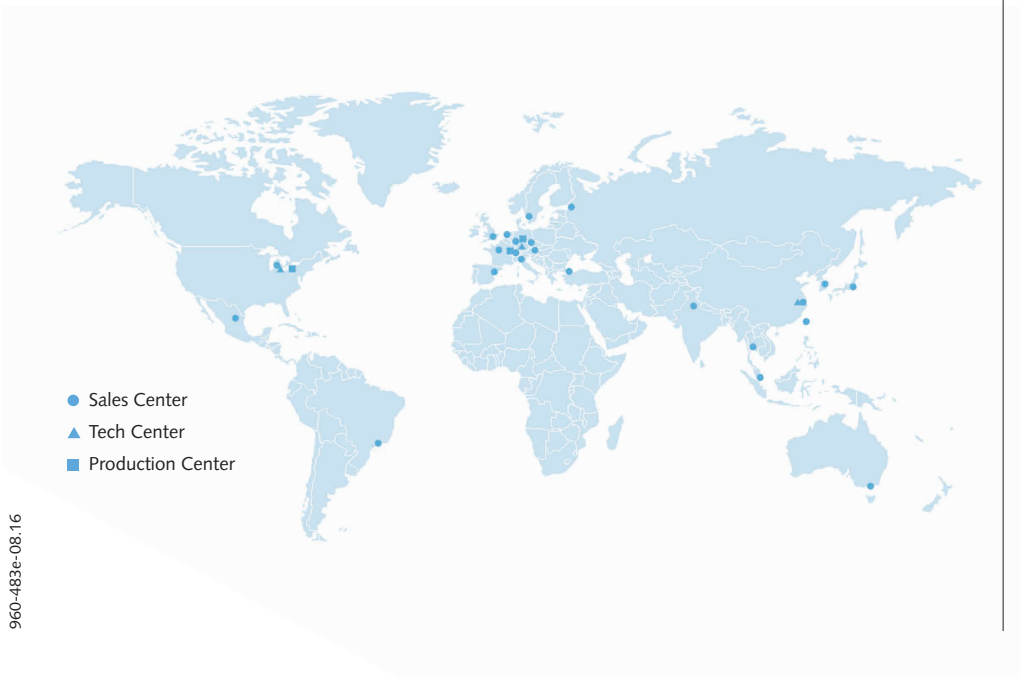


Key Features
- In-dummy installation with DTI sensors
- Non-volatile flash memory
- Start-Record function
- 48, 96 or 144 measurement channels

Benefits
- Reduced physical size for in-dummy installation
- Additional test data reliability features
- DTI offers simplified wiring both in-dummy and to external interface
- Compatible with 'DTI Control' and 'Crash Designer'

About the Kistler Group

Kistler is the global leader in dynamic pressure, force, torque, and acceleration measurement. Customers benefit from Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. With some 1 500 employees at 56 facilities worldwide, the Kistler Group posted revenue of USD 341 million in 2015.



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