

Press release

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Synergies in testing via the interaction of high-voltage measurement technology and NVH

The PAK live ecosystem grows: CSM and Müller-BBM VibroAkustik Systeme combine their competencies.

Munich and Filderstadt, Germany. The increasing complexity of products and components as well as rising demands on testing require new approaches, especially in the field of electromobility. It is necessary to place distributed, high-voltage safe and compact measurement technology for mobile use, or permanently installed in the test bench, with powerful data acquisition and analysis software directly at the sources.

"We are keeping a close eye on the current changes and are working on future-oriented system solutions," says Andreas Ansorge, Managing Director of Müller-BBM VibroAkustik Systeme. "For us, this includes high-precision data acquisition at high operating voltages. With the innovative high-voltage measurement technology from CSM, it is possible to record and evaluate the real currents and voltages together with other dynamic data in real time."

With the PAK live technology from Müller-BBM VibroAkustik Systeme, smart data networks are created through the precisely fitting networking of data sources and applications. CSM measurement modules and sensors are used directly in high-voltage cables and components. CSM hardware is configured with CSM's own software console and continuously streams data to the PAK live.hub.

The PAK live.hub provides this data synchronously via PTP along with other parameters, such as ECU data, test bench data, bus data, the NVH software PAK, and other applications for real-time acquisition and analysis. Compared to the CAN-based data acquisition frequently used so far, the degree of information density is significantly higher.

The intelligent networking of the data streams makes it possible to solve testing and engineering tasks quickly and efficiently. Different tasks from different users can now be mapped with just one setup. Interdisciplinary investigations and context-related statements on cause and effect are the result.

"The goal of our partnership is to increase the added value around measurement data and to accelerate testing sustainably, since the complex tasks can be mapped in the best possible way in the interaction of the systems," elaborates Winfried Koch, CEO of CSM. "We are pleased to be able to offer our customers a solution that is open to the future and will support them sustainably support in their measurement tasks," adds Andreas Ansorge.

As a further step of the partnership, a cooperation in the area of analysis methodologies around the topic of fatigue strength is also planned in the future.



Dr. Winfried Koch (CEO of CSM GmbH) and Andreas Ansoerge (Managing Director of Müller-BBM VibroAkustik Systeme GmbH)

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The cooperation between CSM and Müller-BBM VibroAkustik Systeme creates new solutions for testing and engineering tasks by bundling high-precision measurement hardware and powerful analysis software.

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About Müller-BBM VibroAkustik Systeme

Müller-BBM VibroAkustik Systeme is a global solution provider for the acquisition and analysis of physical data and the measurement data management. The PAK family software is used industry wide.

Our credo is openness, which we actively promote by continuously integrating standards, such as ASAM ODS, CAN, EtherCAT®, IENA, iDDS and openMDM®, and collaborating with innovative technology partners. This openness is the foundation of our open platform architecture, which allows ecosystems to emerge around physical data – through the custom-fit integration of analog and digital data sources as well as smart applications.

About CSM

CSM is a leading, highly innovative manufacturer of decentralized networked, robust measurement technology and data loggers for applications in vehicles and test benches. We have been setting technological standards in this field for over 35 years. Our products are successfully used worldwide by almost all manufacturers of passenger cars, commercial, agricultural, and material handling vehicles as well as their suppliers and service providers.

Continuous innovation and long-term satisfied customers are our guarantee for success. With our high-voltage safe measurement and breakout modules developed for fast and synchronous measurements on electric and hybrid vehicles, we actively accompany our customers' transformation towards E-Mobility.