

## imc expands its portfolio of HV measurement modules for e-mobility applications



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**imc Test & Measurement GmbH has expanded its imc CANSASflex series with new high voltage isolated measurement modules and connection boxes for reliable measurements in HV environments, especially for use on electric and hybrid vehicles.**

The imc CANSAS family now offers a new four-channel measurement module “HISO-HV4” for measuring high differential voltages up to 800 V. This enables HV voltages to be acquired along the electrical drive train, for example at the battery, charging converters, power units, assemblies, cabling etc. The module supports users in analyzing charge and energy flows and optimizing efficiency. The connection is made via laboratory sockets (“banana”).

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Furthermore, the HISO8 modules for high-voltage environments have been supplemented by a new device version “4L”. As a new connection variant it offers four LEMO.2P multi-connectors with two channels each – as an alternative to the small and economical, single-channel LEMO.1P types. Both versions of the module allow for high voltage safe measurements of up to eight PT100/PT1000 resistance thermometers. Thanks to their high resolution and selectable measuring ranges from 60 V down to 50 mV, high-precision measurement of low voltages at the HV level is possible – for example, of individual battery cells or current measurement shunts.

Thus, the HISO8 module can also cover the current measurements required for power acquisition. Alternatively, isolated precision current transducers and clamps can be used. They do not require an HV measurement amplifier and can be connected to all imc measurement amplifiers. The current sensors, together with a supply unit well suited for such transducers, are part of the imc product portfolio.

With the “HISO8-T” thermo-modules already established on the market, imc continues to offer modules for reliable and high voltage safe temperature measurement with thermocouples.

All HISO modules from imc are fully compliant with all relevant equipment safety standards and requirements (IEC EN 61010-1/2) – safety of personnel in critical high-voltage environments is thus guaranteed at all times.

As a supplier of complete solutions, imc also offers a comprehensive range of accessories for testing in high-voltage environments. In addition to HV-suitable, ready-made sensor cables, it also comprises a new special HV connection box (HVBOX) with screw terminals. It serves as a flexible safety interface between the measuring point and the DAQ system. This allows sensors and test object instrumentation that were not originally designed to be HV-safe to be connected to the HVBOX and thus transformation to a fully HV-specified environment.

## imc Test & Measurement GmbH

imc Test & Measurement GmbH is a manufacturer and solution provider of productive test and measurement systems. Together with its customers from the fields of automotive engineering, mechanical engineering, railway, aviation and energy, imc implements metrological solutions for R&D, service and manufacturing. Every day customers use imc measurement devices, software solutions and test benches to validate prototypes, optimize products, monitor processes and gain knowledge from measurement data. The performance promise “productive testing” is consistently pursued by imc. The company offers its customers top technological performance along the entire measurement chain.

The core of the product portfolio consists of imc's modular measurement, control and automation systems, which are supplemented by custom-fit sensor and telemetry systems for customer applications. Using the imc software platform, users can quickly and easily implement comprehensive test and measurement processes, perform real-time analyses and automate test benches. With powerful software tools for the analysis and management of test and measurement data, as well as cloud services, imc sets trends in future technologies, such as smart data analysis, and brings measurement technology solutions to industry 4.0 and the Internet of Things (IoT).

imc has particular expertise in the design and production of turnkey electric motor test benches. Equipped with state-of-the-art test procedures, such as load-free acquisition of motor parameters and automated test sequences, they accelerate customer testing. imc test benches work reliably worldwide, both in R&D and in production environments.

As a solution provider, imc offers its customers an attractive range of services. These include project consulting, contract measurements, data evaluation, outsourcing of specialists, customer-specific software development and system integration.

imc customers benefit both nationally and internationally from a strong expertise and sales network that implements test and measurement solutions locally in more than 25 countries.

Founded in 1988 in Berlin, the company employs around 250 people at three locations in Germany. Together with other companies, imc forms the "imc group". These include the international headquarters in France, Switzerland, the Netherlands, the USA and China, as well as the German sensor and telemetry specialist CAEMAX Technologie GmbH. A strategic partnership also connects imc with the telemetry specialist KMT Krauss Messtechnik GmbH.

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