

New HV-safe modules for e-mobility tests

Family of click-connect imc CANSAS*fit* measurement modules
is continuously growing



Fig. 1: Compact and clickable imc CANSAS*fit*-HISO modules



Fig. 2: imc CANSAS*fit*-HISO-UT-6 module for thermal testing and acquisition of voltage and mechanical loads.

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imc Test & Measurement GmbH is expanding its imc CANSAS*fit* series with high-isolation, compact CAN measurement modules for data acquisition in high-voltage environments, such as electric vehicles and electric components. The two new models HISO-T-8 and HISO-UT-6 support a large variety of test scenarios.

The HISO-UT-6 module can be applied for temperature and cell voltage measurements as well as for vibration measurements with MEMS sensors. It appeals to users who, for example, conduct thermal testing on high-voltage batteries as well as investigating the impact of mechanical load and vibration on durability. Both HISO modules ensure complete personal safety at up to 1000 V and can be docked to any other module in the imc CANSAS*fit* series using the integrated click connector.

With its new **imc CANSAS*fit* HISO-UT-6 module**, the Berlin-based measurement technology manufacturer is presenting a more universal approach to data acquisition in high-voltage environments. It can be used in 1000 V environments for the acquisition of temperature, voltage and even low-frequency mechanical vibration, via directly connectable MEMS accelerometers,. A perfectly suited miniature sensor is also offered by imc. It weighs only 3 grams and is the size of a sugar cube. The module meets classic demands such as acquiring temperature (PT100/1000) and voltage on individual battery cells and on larger sub-modules or stacks up to 100 V, as well as measurement of current shunts at a high voltage level. At the same time, it allows to answer questions about mechanical strength with respect to vibration load, which are increasingly a focus in development and testing of e-mobility components such as batteries or an entire HV infrastructure.

The second new module, HISO-T-8, offers 8 inputs for type K thermocouples on multi-channel connectors and allows safe and precise temperature measurement at a level of up to 1000 V. It is therefore suitable for thermal examination of high-voltage electric and hybrid vehicle components such as batteries, fuel cells and supply circuits.

Both modules are equipped with the well established click connector, and can be easily connected to neighbouring imc CANSAS*fit* HISO modules and any other members of the imc CANSAS*fit* family.

Press Information

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With an extensive range of accessories for instrumentation, such as HV-certified connection cables, extension coupling, HV connection boxes, and sensors, imc positions itself as a provider of complete solutions. In the area of data acquisition and analysis, imc specializes in offering comprehensive test solutions in the form of universal data loggers, measurement systems and analysis software packages.

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After consultation, we will assume costs associated with publication.

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 Kraus Messtechnik GmbH.