

imc expands the measurement possibilities of imc SPARTAN with fast field buses like CAN-FD and amplifiers for LVDT displacement sensors



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At the trade fair SENSOR+TEST in Nuremberg, Germany, imc Meßsysteme GmbH is presenting the new generation of its multi-channel measurement system imc SPARTAN. Equipped with a new base unit, the systems now support the entire imc portfolio of field and vehicle bus interfaces including CAN-FD. In addition, the new generation enables synchronization via network (NTP) and the fast IRIG-B Standard. The measurement modules also include 16-channel isolated temperature and voltage measurement amplifiers, as well as bridge amplifiers with a maximum sampling rate of 500 Hz per channel. A new, economically priced module has been added for connecting LVDT-based sensors, such as inductive displacement transducers. In addition to analog measurement amplifiers, imc SPARTAN offers digital inputs and outputs, as well as pulse counter inputs for incremental encoders.

As a further new feature, the devices now support characteristic curve calculation on the conditioners. This means that user-defined, non-linear characteristic curves can be calculated directly on the measurement amplifier and do not burden the integrated analysis platform imc Online FAMOS. Thus, it is fully available for real-time calculations and control tasks.

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Reimbursements: After consultation, we will assume costs associated with publication.

The internal short-term UPS, which has been converted from lead-gel batteries to environmentally friendly, robust and maintenance-free NiMH technology, has also been optimized.

The imc SPARTAN series is particularly suitable for multi-channel measurement tasks on test benches, in the laboratory or in mobile machinery and vehicles. Depending on the size of the housing, up to 128 channels can be acquired, stored and processed online with one system. If several systems are networked together, thousands of channels can be synchronized in one measurement. For example, hundreds of strain gauges on an aircraft wing can be measured precisely and synchronously for fatigue strength testing or thousands of temperatures on a power plant turbine can be measured for efficiency determination.

The direct integration of field and vehicle buses from the automotive (CAN FD, Lin, FlexRay, XCPoE), aerospace (ARINC), railway (MVB) and automation technology (EtherCAT slave) sectors makes the systems particularly versatile.

As with all imc measurement systems, the configuration and operation is done comfortably via the imc STUDIO measurement software. In addition to fast configuration, operators can create their own display and user interfaces that are perfectly tailored to their needs.

Like all imc measurement devices and data loggers, the imc SPARTAN devices can also be operated independently without a PC and offer networking options via Ethernet or wirelessly via Wi-Fi or UMTS. The new imc SPARTAN-N generation features an integrated web server for convenient access via browser or smartphone. This makes it possible to remotely monitor characteristics, curves and online analyses at any time via a self-configurable web interface.

Additional information:

www.imc-berlin/spartan

Press information

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For over 25 years, imc Meßsysteme GmbH has been developing, manufacturing and selling hardware and software solutions worldwide in the field of physical measurement technology. Whether in a vehicle, on a test bench or monitoring plants and machinery – data acquisition with imc systems is considered productive, user-friendly and profitable. So whether needed in research, development, testing or commissioning, imc offers complete turnkey solutions, as well as standardized measurement devices and software products.

imc measurement systems work in mechanical and mechatronic applications offering up to 100 kHz sampling rate per channel with most popular sensors for measuring physical quantities, such as pressure, force, speed, vibration, noise, temperature, voltage or current. The spectrum of imc measurement products and services ranges from simple data recording via integrated real-time calculations, to the integration of models and complete automation of test benches.

Founded in 1988 and headquartered in Berlin, imc Meßsysteme GmbH employs around 160 employees who are continuously working hard to further develop the product portfolio. Internationally, imc products are distributed and sold through our 25 partner companies.

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