

## IMTRON

Member of GHM GROUP



## Quick and flexible mobile measurement



CAN-Compact-Modules for detection of the widest variety of sensors for output on a CAN-Bus

## Measurement data recording The SIQUAD Family

### The requirements placed on us

Developers of automotive components are constantly faced with new challenges due to the increasing numbers of tests on new products and simultaneously shorter development times with shorter production life cycles. Quicker replacement of sensors and measuring technology has become indispensable for day-to-day inspection and testing work. A measuring system should also be as versatile as possible for the largest number of different types of tests, support various sensor types, be easy to manage and reduce conversion times.

### Our solution

The compact CAN systems from the SIQUAD family offer the necessary flexibility for a wide range of measuring tasks with a universal measuring amplifier for the most common types of sensors for voltage, current, DMS, temperature, frequency, vibrations and torque. The sturdy devices are available with different numbers of channels. Affordable, sensor-specific devices are available for constantly recurring measuring tasks.



## BENEFITS.

- Reduction of investment costs by reducing the number of necessary measuring systems
- additional hardware for potential isolation and sensor supply can be omitted
- significant shortening of commissioning time by universal measuring amplifiers
- Reduction of setup costs by using the same hardware for different measurement tasks



CAN-Stick  
with an universal input



CAN-Compact-Module  
with sensor-specific inputs

### The advantages

The measuring systems for the CAN bus from Imtron enable flexible recording of data from analogue sensors.

- The data is pre-processed, digitalised with 24-bit AD converters and output at up to 1 Mbaud to the CAN bus. In the process, the signals are **galvanically isolated** and can be filtered with the powerful integrated signal processor.
- **The power supply of the various sensors** is also provided by the measuring system.
- The devices have a **9..36V DC voltage supply** and can also be operated via the on-board network.
- Various devices are offered for different purposes. The assortment of potential solutions ranges from a single-channel "CAN-Stick" that enables any arbitrary number of analogue sensors to be supplied on CAN-Bus to multi-channel, **sensor-specific devices**, e.g. for temperature, and up to 8-channel universal measuring amplifiers.
- A **significant improvement of commissioning time** by the use of configuration software DASoft. The software takes the task of parameterization for the necessary sensor types, measuring ranges and filter, a separate hardware configuration is not necessary.

### Focus on the customer – the decision to purchase

- The proven SIQUAD-Family cuts down on the variety of measuring technology required for different tasks while simultaneously lowering costs associated with equipping for different measurements.
- Measuring tasks can be completed quickly without reducing the quality of the measurement results.
- In addition to CAN systems, the device family includes quick modular measuring data recording systems with an Ethernet interface that can be categorised on a software and hardware basis.



CAN mounting rail module with  
1 or 2 universal inputs