

Krailling, 26th February 2009

„**M=BUS[®]Pro**: The universal 8-channel-lightweight“

Based on the *M=BUS[®]*-technology the universal onboard data acquisition system with the light and compact 8-channel modules is ready for customer's application.

MESSRING, the market leader for crash-test facilities makes the next step in miniaturization of data acquisition electronics: **M=BUS[®]Pro**. The new **M=BUS[®]** unit is designed to acquire data from any resistive and piezoresistive transducer connected. The analog frontend is programmable to match the full range of existing sensors. The sensors are connected to the unit by the proven LEMO[®] 1B connectors.

The daisy chain wiring of the **M=BUS[®]** allows the distributed mounting of single units in the test object which causes an immense reduction of the sensitive analog wiring. This means that the data acquisition is moving close to the sensor for saving effort and time routing the cables. Of course it is also possible to mount the modules side by side on a simple mounting rail at a central location (e.g. the trunk of a car).



M=BUS[®]Pro Analog Module and mounting on rail

For the highest level of data integrity the **M=BUS[®]Pro** is equipped with a backup system that is activated automatically in case of a cable break. This features offline testing without external **M=BUS[®]** power supply. Equipped with a huge 4GB flash-memory that allows recording for more than 3 hours with 8 channels at 20kHz the **M=BUS[®]Pro** is also very attractive for applications besides the field of shock and accident testing. Modules with digital inputs and units for firing airbags complete the **M=BUS[®]Pro** Onboard Data Acquisition Program.

While designing the new data acquisition system, focus especially was laid on small dimensions and low weight, facing an increasing demand for small and handy data acquisition systems for testing compact cars. With this development MESSRING wants to follow this trend and will support test engineers in their daily work. With its dimensions of 83mm × 38mm × 30mm and a total weight of less than 185gr this system is ultra-compact.

Like all current data acquisition systems, **M=BUS[®]Pro** supports Dallas-ID-Modules as well. This makes channel assignment easy and provides the proven standard to users.

MESSRING, the market leader in design, layout and manufacturing of crash-test facilities, test rigs and components for the automotive industry, offers this data acquisition system for automotive safety testing as well as for other industrial applications like materials testing or quality assurance.