



ISABELLENHÜTTE

**Press Information
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Sensor module for quick and precise measurements

Space-saving current and voltage measurement devices for hybrid and electric vehicles

Lithium-ion battery charging and discharging periods pose a great challenge for current and voltage measurement. At electronica, Isabellenhütte Heusler is presenting a sensor module (IMC) tailored to these needs. It can be completely configured according to customer requirements.

For use in hybrid and electric vehicles, precision and component size are crucial factors. The small, and therefore space-saving, IMC (shunt: 20 x 85 mm, board 20 x 40 mm) can perform measurements within a current range of $\pm 1,500$ A at a resolution of 50 mA. The sensor module records voltage within a range of ± 20 V at a resolution of 1 mV.

Measurements are taken via a 100- μ -ohm-shunt, and measured values are logged by the four-channel 16-bit data acquisition system ISA-ASIC. For this pre-calibrated sensor module, customer calibration is no longer necessary. Both supply voltage and SPI signal are electrically isolated.

766 Characters

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Thank you!

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Isabellenhütte is an exhibitor at electronica, Hall B6, booth 436.