


<b>Press Release</b>			
MCD Elektronik GmbH Hoheneichstr. 52 – 75217 Birkenfeld - Germany Tel. +49-7231 78405-0 – Fax: +49-7231 78405-10 CEOs: Bruno Hörter & Dr Thomas Däubler	Release Date: 15.05.2022		Page 1 of 3
	Document Version: V1.0	Editor: TS	Summary Title: MCD_22_002
<b>For immediate publication</b>		Queries to: Tobias Stange, <a href="mailto:Tobias.Stange@mcd-elektronik.de">Tobias.Stange@mcd-elektronik.de</a>	


## Testing energy storage systems in series production Function tester from MCD tests circuit boards for e-cars

Birkenfeld, Germany, May 15, 2022: What has been used for years in Formula 1 as KERS (kinetic energy recovery system) will also find its way into everyday e-cars. Manufacturers and suppliers are working on various systems through which electrical energy can be recovered, converted or stored.

So-called ultracapacitors can provide an energy boost when installed in a vehicle energy storage system, can be charged millions of times and are particularly suitable for applications with a large number of cycles. The capacitors also do not require any rare metals and can be completely discharged without causing any damage. With an FKT test system for such energy storage systems, MCD Elektronik is now taking a further step into the electromobile future.

Not only the functional test of assembled single boards, the current consumption or different voltages on the board can be mapped via test needles, but also measurements of the charging and discharging current including curve diagram. In the process, the circuit boards are stimulated with up to 200 amps, which corresponds to the maximum current in the subsequent on-board power supply system. The system communicates with the test specimen via a CAN interface. A test detect function has also been integrated via short current pulses, which checks whether power units are immediately disconnected or switched off in the event of a malfunction. To ensure flexible and sustainable use, the FKT can be flexibly converted to alternative test specimens by means of interchangeable sets.

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Images:



Image 1: Automotive energy storage systems generate, store and distribute energy to the required interfaces in the electric vehicle.




Image 2: The MCD functional test system analyses assembled PCBs in terms of voltages, currents and loads.

(© Image 1: 123RF/MCD Elektronik GmbH, image 2: MCD Elektronik GmbH, Birkenfeld – Material free of charge as part of the publication of this press release)

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**About MCD Elektronik GmbH:**

MCD Elektronik GmbH was founded in 1983 and today employs 60 people. The owner-managed company has its headquarters in Birkenfeld near Pforzheim. MCD Elektronik is active in Germany, Hungary and China and delivers to over 50 countries worldwide.

MCD Elektronik GmbH manufactures measuring and testing systems for electronics production for its customers from a wide range of industries. In doing so, the company consistently relies on zero-defect tolerance in quality assurance.

At productronica 2023. The MCD Elektronik GmbH presents its products and innovations in hall A1 on booth 155. Feel welcome to visit us!