

FAILURE SIMULATION UNIT (FSU)

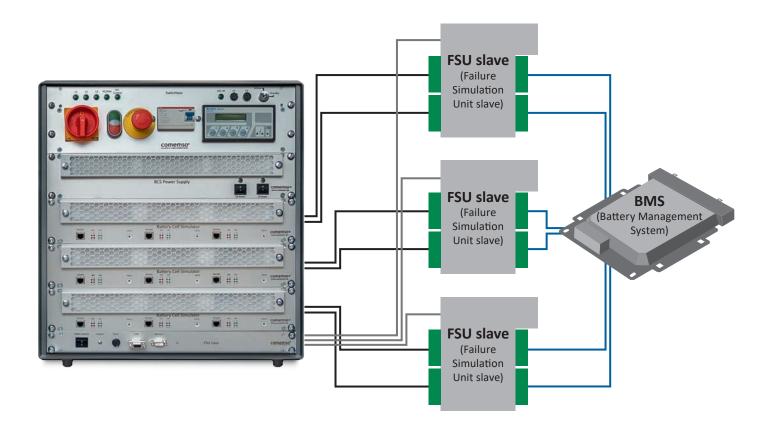






FOR SIMULATION OF WIRING FAILURES.

To complete the failure simulation of the Battery Cell Simulator, an additional FSU is used to simulate the breaking of measurement wires between BMS and the cells.



Technical data

Communication:CAN-Bus 500kBd / 1MBdTemperature range:Lab conditionsConnector:115V / 230V

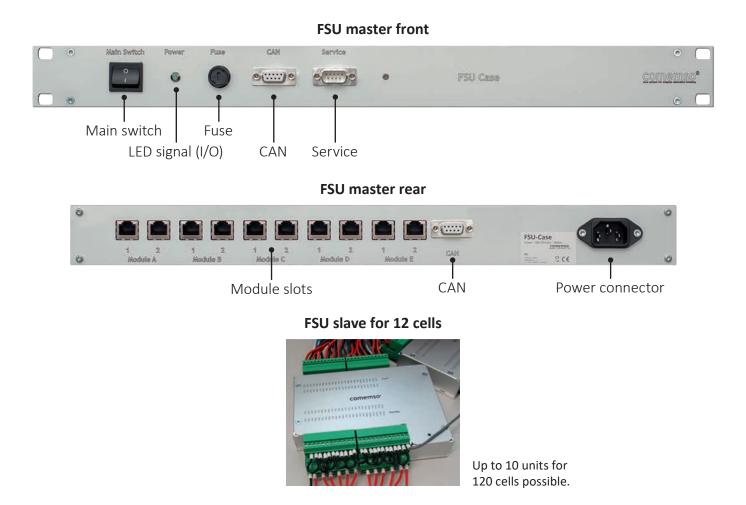
Up to 10 slaves per master (via ethernet cable)

Cable break of measurement line

Different settings for each measurement line

Cascading of 12 emulated cells to a stack (per slave)

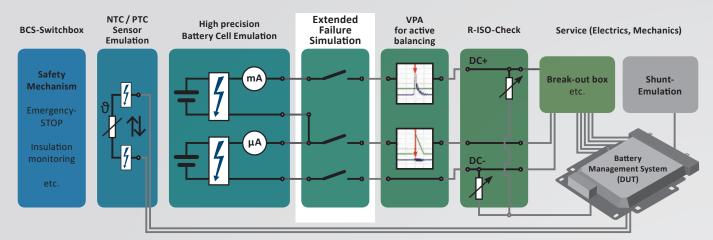
Close-up view.



The comemso Failure Simulation Unit (FSU) is used to extend the failure simulation of the Battery Cell Simulation (BCS). The following test cases of the Battery Management System are possible:

Test case failure simulation	Sketch	Realisation
Cable break of voltage measurement cable. Cause: Mechanical stress.	Cell Controller / Monitor	BCS FSU Cell Chroller / Monitor Setting BCS: Set cell 'n' to LOAD_ONLY mode FSU: Open relay 'n' BCS: Set cell 'n' back to NORMAL mode

Furthermore a ripple filter is added to the voltage and sense lines of BCS.



All solutions above are comemso products. Further information about the individual products can be found as a brochure at www.comemso.com or on request at sales@comemso.de.

Extended fault insertion for your Battery Cell Simulator.

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FSU master with control fitting to the BMS test application

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