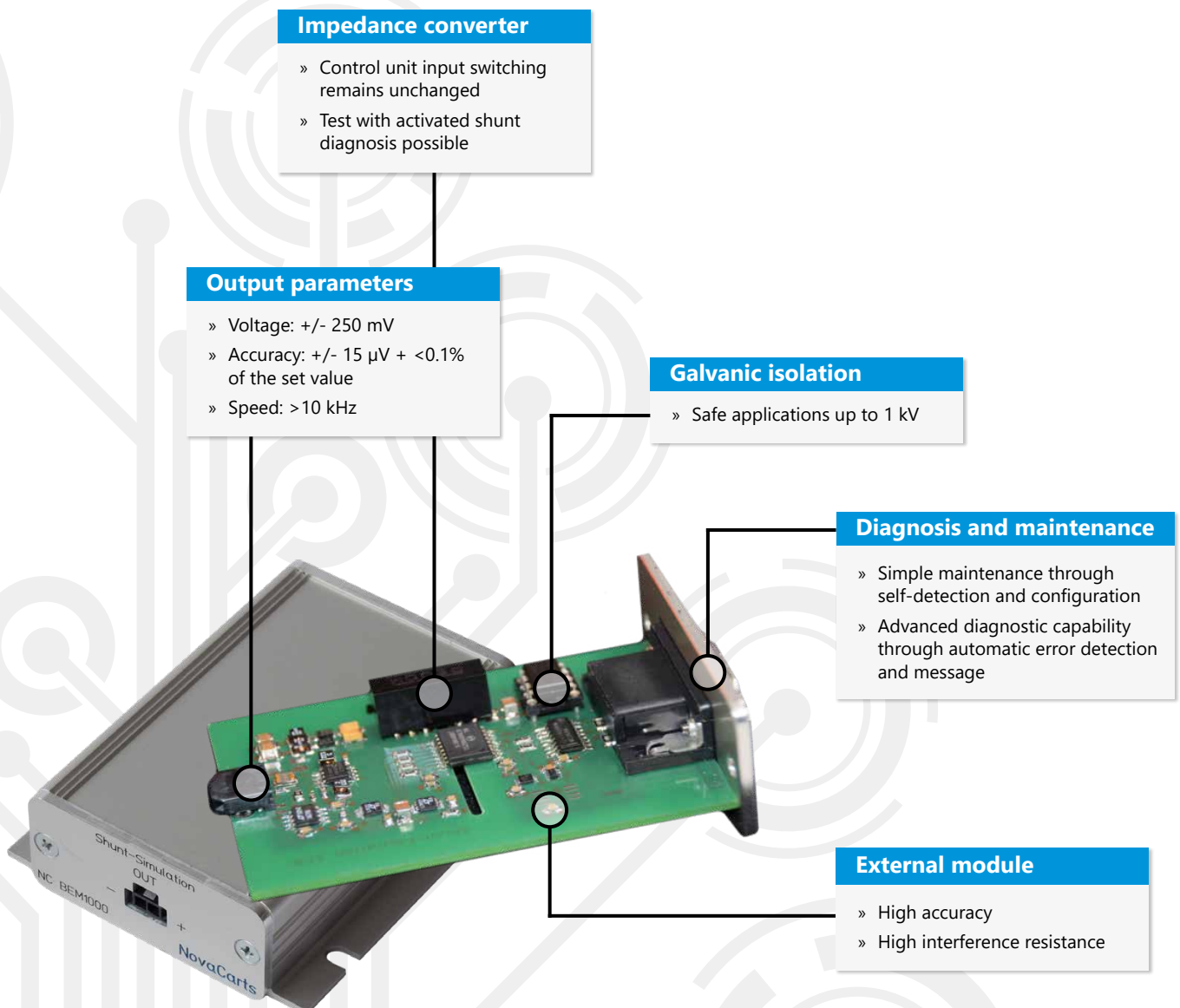


NovaCarts Shunt Simulation Module

Developed for the test of battery management systems, this external module simulates the shunt voltage generated by the battery current with extreme precision. It can be located in the direct vicinity of the relevant BMS measurement input in order to ensure the required high level of shunt voltage accuracy. Thanks to the dynamics exceeding ten kilohertz, the module is even suitable for sophisticated battery applications, such as simulating starter batteries or future BMS functions.

Furthermore, the module allows automobile manufacturers and suppliers to simulate functions, such as the specific performance leaps typically arising in conjunction with errors. A connection to the RT system is established via NC-BEB1100 (Resistor Simulation Board).



Data Sheet

Module name: **NC-BEM1000**

Data sheet version: **2V0**

Features

Shunt emulation	1 channel
Operating temperature	0 to +55 °C
Storage temperature	-20 to +70 °C
Humidity	10 to 90 % (no condensation)
Dimensions	8 cm x 6 cm x 3 cm
Connection to RT system	Via NC-BEB1100 (Resistance Simulation Board)

Specifications

Output voltage*	+/- 250 mV
Accuracy	+/- 15 μ V + <0.1 % of the final value
Resolution	16 bit
Galvanic isolation	1,000 V

* Other voltage ranges on request