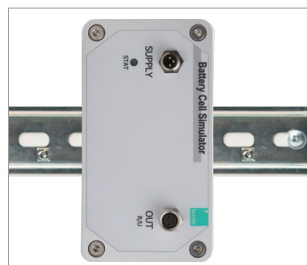


## Accessories

### Battery Cell Simulator **NEW** for Battery Measuring Module Series 2511

## MODEL 2500-Z100

#### Preliminary data sheet



#### Highlights

- Resistance simulation: 1 ... 300 mΩ
- Voltage simulation: 2.5 ... 4.5 V DC
- Accuracy: from 0.05 % of reading
- Compact housing for wall mounting or DIN rail installation
- Suitable for many common cell formats
- Optionally with custom resistance and voltage values

#### Options

- Wall mounting
- Top hat rail mounting

#### Product description

The Battery Cell Simulator serves to test Battery Measuring Modules in the 2511 series, which are used in battery module assembly applications (incoming goods inspection, BoL, EoL). The Battery Cell Simulator is able to emulate battery cells of different technologies with resistance and open circuit voltage simulation. The resistance simulation replicates the purely ohmic resistance of a cell. The Battery Cell Simulator runs on 24 V DC. The LED on the front indicates the different operating states. Resistance and voltage values can be defined from standard values or from a custom set of values.

## Technical data

Resistance simulation		
Resistance range		1 mΩ ... 300 mΩ
Standard values		1 mΩ, 3 mΩ, 5 mΩ, 10 mΩ, 15 mΩ, 30 mΩ, 50 mΩ, 100 mΩ, 150 mΩ, 300 mΩ
Accuracy		from ±0.2 %
Max. simulation test current		±0.8 A
Special values		on request
Voltage simulation		
Voltage range		2.5 V DC ... 4.5 V DC
Standard values		3.7 V, 3.9 V, 4.1 V
Accuracy		≤ 0.05 %
Options		
2500-Z100		Please specify a desired standard resistance value and voltage value
2500-Z100-S		Please specify a desired custom resistance value and voltage value in the range: Resistance: 1 mΩ ... 300 mΩ Voltage: 2.5 V DC ... 4.5 V DC
Housing		
Material		Aluminum
Dimensions (WxHxD)		104 x 54.6 x 120 mm
Weight		Approx. 500 g
Protection class		IP54
Connections		Power supply, signal output
General data		
Supply voltage		11 ... 30 V DC Galvanic isolation, inverse polarity protection, overvoltage protection
Power consumption		Approx. 3 W
Operating temperature range		0 °C ... +50 °C
Storage temperature range		-10 °C ... +70 °C
Humidity		0 ... 70 % non-condensing
Installation		4 rubberized feet (fitted as standard) Wall mounting (accessory) Mounting rail installation (accessory) (Mounting rail in accordance with DIN EN 50022)

## Example application

The 2511 Battery Measuring Module is used for 100 % testing of the internal resistance (AC/DC) and OCV of 21700 format round cells during the battery module assembly process.

The battery cells in the production line are connected from one side. To carry out spot checks on the measuring system, a Battery Cell Simulator with a cell-specific connection adapter is substituted in place of the round cells and measured. A connecting cable is used to correctly assign the connections to the Battery Cell Simulator.

## Accessories

Order code		
9900-K252		Measuring cable 2.0 m cable length, 4-pin M8 socket, one end with free wire end ferrules
2511-Z001		Mounting kit for wall mounting
2511-Z002		Mounting kit for mounting rail installation