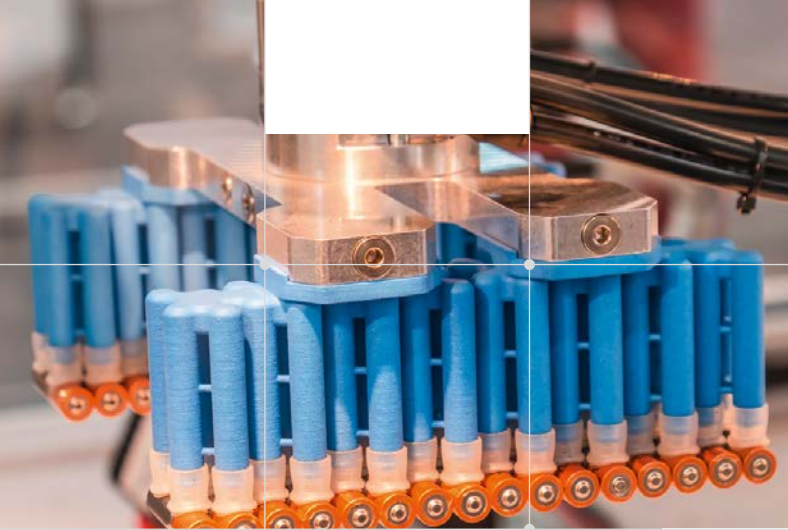


**burster**

# BATTERY MEASUREMENT SOLUTIONS

FOR ALL AREAS OF INDUSTRIAL AUTOMATION

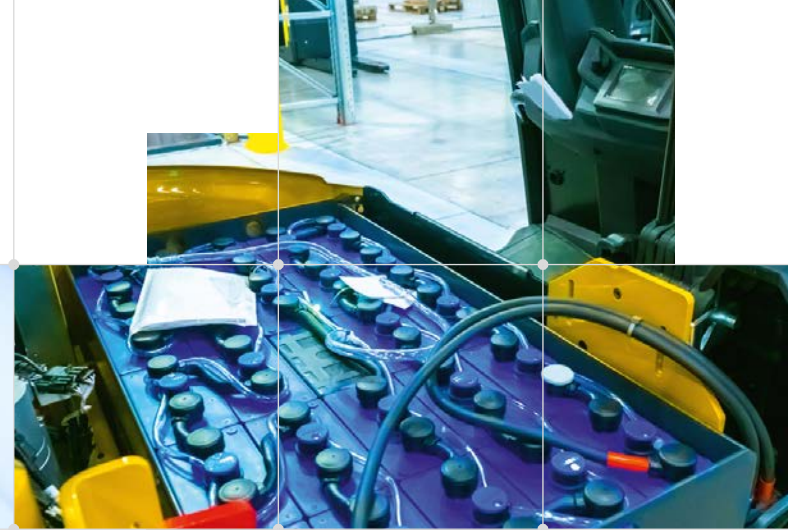




**EXAMPLE APPLICATION:**  
100 % incoming goods testing for prismatic cells



**EXAMPLE APPLICATION:**  
Inline contact resistance measurement to detect defective welded joints on cell contact lugs



**EXAMPLE APPLICATION:**  
High-impedance safety measurement on insulated busbars



**EXAMPLE APPLICATION:**  
Analysis and testing of prismatic cells via capacity test and model parameter calculation

## BATTERY MEASUREMENT SOLUTIONS FOR AUTOMATED MASS PRODUCTION

High-speed, multi-channel, bus-compatible, compact

### KEY FACTS:

- AC/DC internal resistance measurement, open-circuit and module voltage measurement, temperature measurement
- Impedance measurement 1 kHz, optionally 1 Hz, 10 Hz, 100 Hz as well
- Four-wire measurement method



Battery Measuring Module 2511



## RELIABLE AND REPRODUCIBLE DETECTION OF CONTACT RESISTANCES ON BATTERY CONTACT LUGS

Innovative, universal, precise, real-time data transfer

### KEY FACTS:

- Measurement accuracy 0.03 % F.S. even in  $\mu\Omega$  range, temperature compensation for all materials
- Measurement/evaluation time from 10 ms
- Thermal EMF compensation, input protection up to 400 V<sub>eff</sub>



RESISTOMAT® 2311



## INSULATION RESISTANCE MEASUREMENT BETWEEN ELECTRICAL COMPONENTS AND VEHICLE FRAME

High-precision, fast, fieldbus-compatible, multi-functional

### KEY FACTS:

- Measurement ranges 0 ... 100 mΩ to 100 GΩ
- Test voltage up to 1000 V DC
- Broken lead detection



RESISTOMAT® 2411



## SPECTRAL IMPEDANCE MEASUREMENT FOR ANALYTICAL AND DIAGNOSTIC ASSESSMENT OF BATTERY CELLS

Flexible, universal, smart, high-performance

### KEY FACTS:

- Spectral impedance measurement to display results as a Nyquist plot
- Determination of model parameters  $R_s$ ,  $R_p$ ,  $C_p$
- Capacity test, diagnostic function for state of health / state of charge

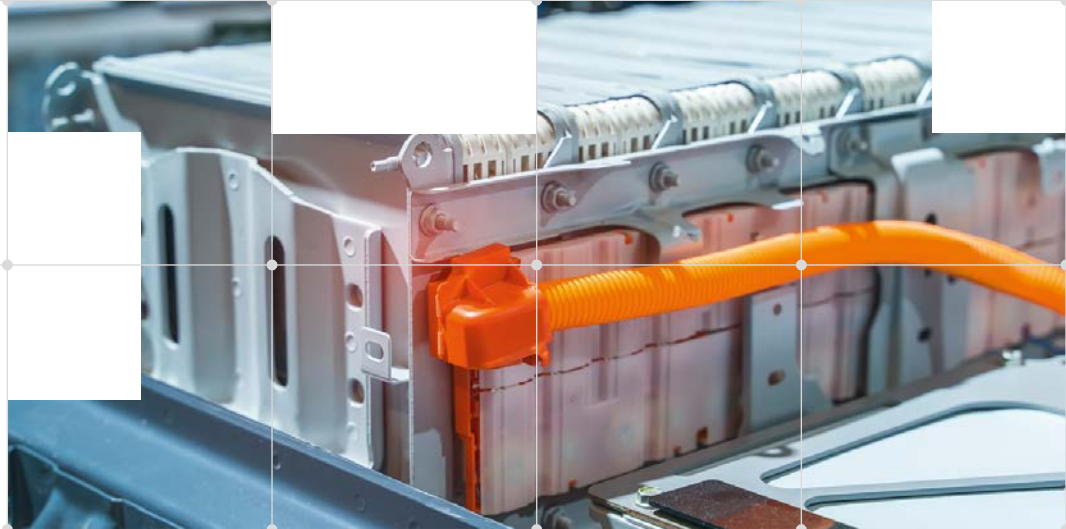
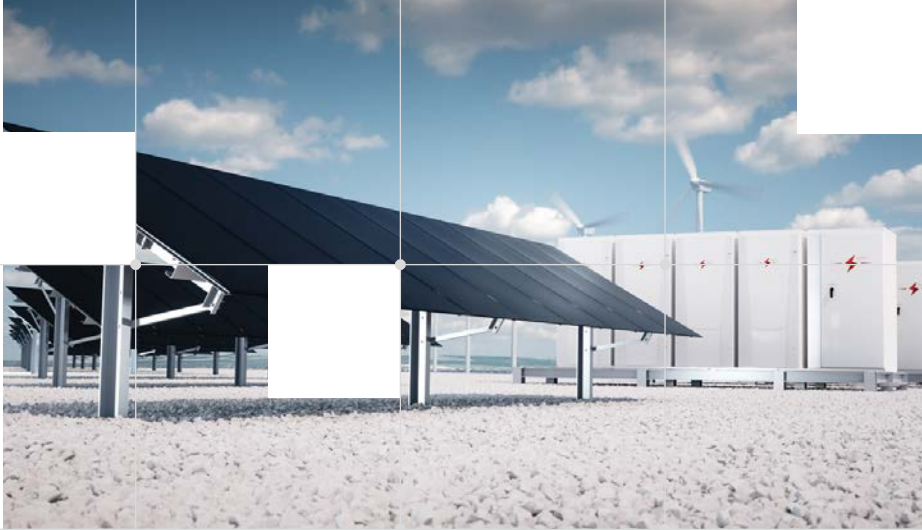


Battery Analyzer 2550

Battery Tester 2560







## CUSTOMER SERVICES WE'RE HERE TO HELP

A complete measurement solution also includes a high-quality service offering. That's why burster offers comprehensive service packages for battery measurement. Modular components for planning, implementation and operation cover all relevant aspects of your task.



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