

HIGH-IMPEDANCE METER FOR INSULATION RESISTANCE MEASUREMENT IN BATTERY PRODUCTION AND TESTING

RESISTOMAT® 2411

high speed, fieldbus compatible, precise



PROFINET EtherCAT EtherNet/IP

- ⚡ Detect separator damage, metal contamination, incomplete electrode insulation prior to electrolyte filling
- ⚡ Insulation measurement between high-voltage busbar and battery ground
- ⚡ Riso measurement between battery pole and chassis, and much more



Highlights

- Extremely fast measurement and evaluation
- Minimal discharge times for residual voltage
- Configurable measurement sequences and operating modes
- Pass/fail indication via limit values
- PROFINET for easy control system integration
- Broken lead detection and more

Features

- Measuring ranges 0 ... 100 kΩ to 100 GΩ (optional up to 100 TΩ)
- Measurement time from 50 ms
- Measurement accuracy starting at 0.1 % of reading
- Test voltages from 10 V DC to 1000 V DC adjustable in 1 V steps
- 32 measuring programs for a wide variety of parts

Performance in every process phase R&D, testing, production, assembly

- ⚡ Increased productivity with very short measuring times, cascading capability and easy control system integration
- ⚡ Precise measurement results using innovative measurement method

Faulty or insufficient insulation can have serious impacts on the service life, aging process and performance of individual cells or complete high-voltage battery modules. These impacts are safety-relevant, pose a fire hazard, and may have life-threatening consequences. Avoid them in advance.