

TESTING AND MAINTENANCE – BATTERY ROOM FLOOR RESISTANCE MEASUREMENT



WHY MEASURE FLOOR SURFACE RESISTANCE IN BATTERY ROOMS? TO ENSURE THE SAFETY AND AVAILABILITY OF YOUR ENERGY SYSTEMS

The condition of the flooring in battery rooms is crucial for safety and protection. How can you ensure that your battery room floor meets the required standards?

Increased Safety

- Identifying potentially hazardous battery conditions minimizes fire and explosion risks.

Asset Protection

- Preventive diagnostics significantly extend the lifetime of your battery systems.

Legal Compliance

- Standards-compliant floor discharge resistance in battery areas is essential to avoid liability risks and secure insurance coverage.

ADVANTAGES OF REGULAR INSPECTION AND MAINTENANCE

At Ohmega Energy, we offer comprehensive service packages for the measurement of floor surface resistance in battery rooms—tailored to your specific needs and always aligned with the highest standards.

Enhanced Personnel Safety

- Clear results identify and eliminate potential hazards.

Early Detection of Defects

- Poor insulation values are detected early, before major damage or failures occur.

Legally Compliant Documentation

- Measurement logs and inspection reports serve as clear proof of compliance with safety requirements and audit standards.

Asset Value Preservation

- Preventive measures protect your infrastructure and extend the lifespan of your battery installation.

Cost Efficiency

- Early detection and correction of issues prevent expensive repairs and operational interruptions.

OUR MAINTENANCE SCOPE

Our maintenance services ensure maximum safety and reliability of your battery room flooring and battery installations. Through precise measurement procedures and comprehensive analyses, we effectively prevent failures and hazards – ensuring maximum safety and long-term compliance.

MAINTENANCE ACCORDING TO STANDARDS & SAFETY REQUIREMENTS

- *Visual Inspection of the Battery Room Floor* – Thorough inspection for damage, cracks, contamination, moisture, acid residue and signs of corrosion.
- *Measurement of Conductivity* – Precise measurement of floor resistance at various points in the battery room – especially under and around battery racks – using standardized testing procedures and certified instruments.
- *Identification of Leakage Current Paths* – Analysis of measurement results to locate areas with insufficient insulation that may promote leakage currents.
- *Inspection of Grounding Systems* – Verification of the correct installation and functionality of the grounding for the battery rack and all conductive components in the room.

Floor conductivity measured. Safety proven.

SERVICES FOR YOUR BATTERY ROOM FLOOR SURFACE & BATTERY INSTALLATIONS

- *Analysis and Assessment* – Detailed evaluation of measurement results and comparison with relevant standards and limit values. Assessment of the actual condition of the battery room floor.
- *Recommendations for Corrective Actions* – Specific recommendations for eliminating identified deficiencies – e. g., cleaning concepts, refurbishment suggestions (coatings, repairs) or adjustments to rack insulation.
- *Documentation* – Preparation of a complete inspection report including all measurement values, detailed condition descriptions, identified deviations and recommended measures. This report serves as official evidence for authorities and insurance companies.
- *Preventive Consultation* – Advice on measures to prevent future problems, such as suitable acid containment trays, correct cleaning agents and procedures, or selecting the appropriate flooring for battery rooms.
- *Deadline Management* – Support in defining and meeting inspection intervals for battery floor measurements to ensure continuous safety.