

# MIDTRONICS

Battery Management Innovation

Now Features  
Extended Range to  
55 Ampere Hours+!

## SCP 6/12™

### Battery Conductance Tester

**The Midtronics® SCP Battery Conductance Tester provides a simple method to screen the state-of-health of popularly sized 6 volt and 12 volt sealed lead-acid batteries.**

#### Benefits:

**Simple:** Easy to setup, even easier to use!

**Quick:** Battery voltage and conductance displayed in less than 10 seconds.

**Safe:** Utilizes patented conductance technology, a passive method that minimizes technician risk and battery stress.

**Accurate:** Conductance method recognized by IEEE standard for the testing of lead-acid batteries with proven correlation to battery capacity.

**Economical:** Efficient and accurate battery tester priced to fit into every technician's tool kit.

#### Specifications:

**Model Number:** SCP-100

**Applications:** Use of sealed lead-acid batteries for security systems, emergency lighting, mobility vehicles, uninterruptible power supplies, more

#### Operating range:

- 6 and 12 volt nominal batteries from 1.2 to approximately 55 ampere hours in capacity
- Voltmeter: +6.0 to +14.0 VDC
- Conductance: 20 to 1200 siemens
- Operating Temperature: -18 to 50°C (0 to 120°F)

- Tests 6V and 12V batteries
- Helps to ensure the operation of critical systems despite power loss
- Prioritizes battery replacements and additional testing for cost-effective system management
- No external power source needed



## Special Features:

The SCP 6/12 includes specialized, patent-pending clamps designed for use with .187 tab terminal batteries, as well as a wide variety of other post/terminal types. Clamps include a true kelvin connection allowing for accurate, repeatable testing. Durable design ensures continuous use for demanding applications.



## Conductance Technology

Conductance describes the ability of a battery to conduct current. It is a measurement of the plate surface available in a battery for chemical reaction, which determines how much power the battery can supply. High relative conductance is a reliable indication of a healthy battery, while conductance declines as the battery deteriorates.

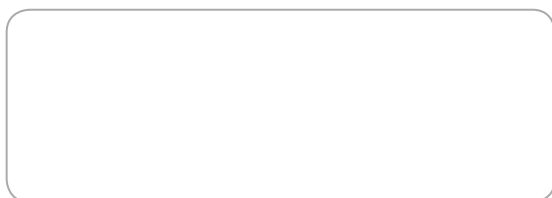
Years of laboratory and field test data have determined that battery conductance is an indicator of battery state-of-health showing a linear correlation to a battery's timed-discharge capacity test result. If conductance can be measured, discharge capacity can be predicted, giving a reliable predictor of battery end-of-life.

Other testing alternatives like voltage and specific gravity testing are not predictive. Timed discharge testing is very time-consuming and expensive, and impedance testing does not correlate directly and linearly with discharge capacity. Thus, conductance testing is a very effective and economical battery management tool.

## Conductance Technology Industry Approvals and Recommendations:

- IEEE Standards 1188 and 484
- EPRI (Electrical Power Research Group) Guide for Testing Stationary Batteries
- Bellcore T1Y1
- Presentation for American National Standards Institute
- International Lead Zinc Research Organization
- Battery Council International

Available from:



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