

Total Battery Management

Micro Celltron®

The Ultimate Tool for Practical Battery Management

Quick, simple, safe & accurate operation

Measures individual cell and overall string health and voltage

Menu driven test sequence

Consistent, repeatable on-line testing without discharge to batteries

Tests 2-volt through 12-volt batteries on-line or off-line

Stores up to 252 consecutive tests results and overall string statistics

Provides advanced warning of potential battery failures

Test each cell in under 10 seconds and entire string of batteries in just minutes

Helps prioritize battery replacements for more cost-effective system management

Tests both battery cell and intercell strap integrity

No external power source needed

Portable IR wireless printing and data transfer to PC laptop

User definable battery reference number storage and fault thresholds

Accessories Available:

- Infrared Printer*
- Infrared PC Data Receiver & Software
- Infrared Temperature Sensor*
- Protective Carrying Case*
- Both Clamp and Probe Cables*
- Amp Test Connector

*Included with standard CTM-300 Kit



World Leader in Battery Management Technology

UNIQUE CONDUCTANCE TECHNOLOGY

All Midtronics battery testing and monitoring products are based on the measurement of conductance.

Using conductance, Midtronics has engineered battery testers that provide the fastest, safest, and easiest test method available for accurately determining a battery's true state of health. In addition, technology pioneered by Midtronics allows for an enhanced condition test method that accurately compensates for low battery charge.

The patented technology is proven and accepted worldwide. Maintenance standards and practices identify conductance testing as a valid and accurate method of determining battery condition: IEEE Standards 1188 and 484; EPRI (Electrical Power Research Group) Guide for Testing Stationary Batteries; International Telecommunications Energy Conference, since 1992; Bellcore T1Y1 Presentation for American National Standards Institute; International Lead Zinc Research Organization; Battery Council International.

Testing data and technical papers are available upon request.

Midtronics' experience comes from more than a decade of field testing, working with customers and applications across all industries.



Micro Celltron®

Battery Conductance Tester

Specifications:

Model Number:

CTM-300 (Kit)
CTM-100 (Tester Only)

Applications:

Tests individual lead acid cells or monoblocs (up to 12 volts) in any common configuration

Operating Range:

100 - 6,000 Mhos/Siemens, single cell
100 - 10,000 Mhos/Siemens, multiple cell
Ranging approximately from 5 Ah to 2000 Ah
1.0 volt to 15 volts DC
For larger batteries - consult Midtronics

Test Data Storage:

Up to 252 consecutive test results can be stored internally

Printing / PC Data Capability:

- Portable IR printer included in CTM-300 test kit, test data can be printed for on-site records
- Accessory IR receiver with cable & Windows compatible software for data downloading to PC

Accuracy:

± 2% across test range

Voltmeter Resolution:

10mV DC

User Programmable Functions:

- Preset values for up to 31 battery types
- Low voltage alarm setting
- Low conductance warning
- Low conductance failure
- Day/date/time (USA/international)
- Test mode (push button/auto start)

Calibration:

Auto-calibration prior to every test, no future calibration required

Connectorized Test Cable Options:

- Dual contact clamps
- Dual contact probes
- Custom cables by quotation

Power Requirements:

One 9V alkaline battery

Temperature Compensation Range:

0°C to 35°C

Keyed by operator

Storage Temperature:

-20°C to 82°C

Over Voltage Protection:

Fused protection to 60 volts DC
Reversed polarity protection

Housing Material:

Sulfuric acid resistant ABS plastic

Tester Dimensions:

9" x 4" x 2.5"
230 mm x 102 mm x 65 mm

Case Dimensions:

19" x 15.5" x 5"
750 mm x 610 mm x 200 mm

Tester Weight:

1 lb. / 500 grams

CTM-300 Test Kit Shipping Weight:

9.5 lbs. / 4 kg

Special Features:

- Impact resistance tested
- Connection interfaces tested for durability and endurance
- No-Ox grease petroleum product resistance



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