

The CellCorder Standby Battery Test Multi-Meter CTL-400



The Cellcorder is a data storing, battery multimeter that provides accurate information in a fraction of normal test time. This intelligent, lightweight unit displays and records readings of cell float voltage, internal cell resistance, and intercell connection resistance. Other data, such as specific gravity and temperature, may be entered manually, or automatically using our CTL-200 Hydrostik digital data logging hydrometer.

The CellCorder may be used on a single cell or multicell modules. Automatic data storage for seventy one strings of 256 cells each per Megabyte (8MB memory key can store 568 strings) saves time and guarantees a permanent record of readings. The USB Key and software allow transfer of all readings to a computer for further analysis and report generation.

The backlit graphical display shows test sequence results and operation instructions. With its internal battery fully charged, the Cellcorder can perform up to seven continuous hours of testing. This isolated operation makes the Cellcorder portable, safe, and easy to move around. Recharge or AC power is supplied by a wall plug or car adapter.

Suitable for all types of Secondary (rechargeable) Lead Acid or NiCad Cells.

System Features & Benefits

- **+** **Float Voltage Readings**
The Cellcorder measures the voltage applied during full float operation. The voltage range covers all cells or modules up to 20 volts. Cell or module reading accuracy is to four full digits.

- **+** **Internal Cell Resistance**
The internal resistance of a cell can be determined by how that cell responds to a momentary load. The instantaneous voltage drop and load current applied are used to calculate the resistance. Cellcorder algorithms make this measurement possible on cells floating on-line or off-line.

- **+** **Inter Cell Resistance**
The Cellcorder measures the resistance between two cell terminals that are electrically connected. The measurement consists of the connector resistance and the contact resistance at the points of connection to the cell terminals.

- **+** **Auto Ranging**
The Cellcorder automatically selects the correct voltage range, load resistor, and time for a test.

- **+** **Data Extraction and Analysis**
After all testing is completed; the Cellcorder can be connected via the internal modem, supplied Smart Card reader or infra red port to a PC or handheld device. The data extraction program analyzes test data and displays results in a bar graph or tabulated format. A test report may be printed or saved to a file. This file can be exported in an ASCII or comma-delimited format to allow off-the-shelf programs or supplied Battery Analysis trending software to generate customized reports.

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Cellcorder Advantages

- **Low Cost**
The Cellcorder replaces three instruments that individually cost as much as or more than this one instrument. Significant savings result from taking more readings in less time and analyzing data more rapidly.
- **Multicell Capability**
The Cellcorder provides readings on either single cells or multicell modules.
- **Reliable Readings**
The Cellcorder displays superior performance even in high noise environments - without the need to disconnect the battery from service. The instrument uses up to a 50-amp DC load (on 2V cells) to calculate internal cell resistance and intercell resistance. Circuitry rejects the 60Hz ripple often troublesome to AC-based impedance and conductance meters.
- **Supplied Complete**
The Cellcorder comes complete with test leads, carrying case, AC charge adapter, 256MB USB Key. Data and battery trend analysis software is also included.

Alarms

- Low / High Voltages.
- Low / High Internal Resistance
- Low / High InterCell Resistance

Hardware Specification

- *Weight:*
App 1.5Kg.
- *Dimensions:*
App 305 x 178 x 76 mm,
- *Fully CE Marking Compliant.*

After Sales Service

- **Calibration Certificate**
All Cellcorders are supplied with a certificate of calibration and subject to a seven-point check before dispatch.
- **Annual Service**
CellCare Technologies provide a full annual service and routine calibration facility for all Cellcorders supplied. This service also includes annual telephone and email support. All products calibrated traceable to national standards.