

Alber

Trust Your Batteries™

CRT-400 Cell Resistance Tester



***Technology that lets you
Trust Your Batteries***

www.alber.com

Alber

CELLCORDER® The Resista

Trust Your Batteries™



The Cellcorder® CRT-400 Cell Resistance Tester was specially designed to strictly comply with IEEE standards for testing batteries.

When a battery is tested, the measurements will be affected by several factors.

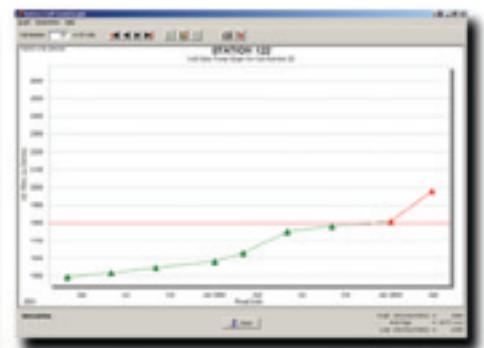
- Online tests are subject to ripple (AC noise) from the charger or inverters.
- Batteries have a natural capacitance that will influence the accuracy of the readings.
- The size of the test current directly relates to the accuracy of the measurement.

With Alber's patented technology, the Cellcorder's DC resistance test is not influenced by these factors. The Cellcorder continues to outperform the competitive AC testing instruments by producing repeatable results in all environments.

This well-proven and patented DC resistance test completely eliminates the guess work when trying to find the weakest link.

Advantages and Features

- Measures and records the three critical parameters: cell voltage and internal battery resistance as well as intercell resistance
- Patented Internal Resistance measurements detect failing cells before they become a problem
- Bluetooth® Capable – audible voice status during testing and data transfer to your PC
- USB Flash Drive – easy data transfer to your PC
- Battery Analysis Software identifies problem cells, creates reports and archives data
- IrDA allows wireless communication with PC and the DMA-35N Hydrometer
- Tests batteries from 0-16V
- Includes new battery test clamps with multiple jaw options
- Lighted, interchangeable spike probes with test status



The New **CELLCORDER®** at a glance. Lightweight, rugged and durable. Special features includes easy operation, Bluetooth option, USB data storage, and new lighted spike probes. The Cellcorder comes complete with a

durable carrying case, voltage probes, resistance leads, USB flash drive, AC charger, data trending and analysis software, and user manual.

Everything required to get started in one case from Alber!

The Battery Analysis Software helps you identify bad cells, generate descriptive reports and archive data. Measurements are stored and presented to allow trending. This makes it possible to detect early performance degradation in individual battery cells.

ance Tester

Using the CELLCORDER®
A world of possibilities...



Spike Probe Options

The Flash Drive holds the measurements and can be used to transfer data to a PC
2030-004

Download data from the Hydrometer
2900-032

Communicate with laptops or handheld devices
2025-036

Voice test status and data transfer
2025-124



Alber battery seminars and product training help you get the most from your test equipment. Alber provides product training for all Alber product lines. Alber storage battery seminars help you ensure performance of your DC system. Alber seminars focus on safeguarding backup systems through proper battery maintenance and testing. Training covers industry standards, equipment and methodologies. Attendees who complete the Stationary Battery Basics seminar receive CEU's (Continuing Education Units). Alber also offers seminars adjusted to company needs and presented on-site.

CELLCORDER® CRT-400 Cell Resistance Tester Specifications*

"There is NO better way to detect early signs of battery degradation than the patented internal resistance method from Albér. Years of experience and millions of measurements on batteries of different sizes and designs validate this statement."

Physical

Dimensions H 305mm (12") x W 178mm (7") x D 76mm (3")
 Weight 1.5Kg (3.4lb)
 Keypad Rubber keys with polyurethane coating

Display

Type LCD - STN Reflective
 Viewing Area 2.619" x 1.309"
 Resolution Graphics LCD 128 x 64
 Viewing Angle 40°
 Backlight White LED

Memory

Type USB Flash Drive
 Storage Capability 1 MB per 71 strings with 256 cells
 Data Retention 10 years

Communication

Infrared PC Interface for data transfer
 Physical IrDA compliant for printer interface
 Bluetooth PC interface for data transfer
 Earpiece interface for voice test status



Battery

Type 4 cell - 8800 mAh lithium ion
 Voltage 4.2V
 Charge Time 8 hrs

AC Adapter

Input Voltage 90 - 264 VAC
 Output Voltage 5 VDC
 Output Current 4.0 Amps
 Frequency 47 - 63 HZ

Environmental

Temperature Range:
 Operating 0° - 40°C (32° - 104°F)
 Storage -20° - 60°C (-20° - 140°F)
 For extended periods <25° (<77°F)
 Humidity Range 0% to 80% RH (non-condensing) at 0° - 31°C
 0% to 50% RH (non-condensing) at 32° - 40°C
 Insulation Category II
 Pollution Degree 2
 Altitude 0 to 2000 meters above sea level

Input	Test Current	Resistance Resolution ± 0.1% of reading	Voltage Resolution	Intercell Range/Resolution
2V	50A	± 5μΩ	0.1% - ± 1mV	2mΩ ± 2μΩ
4-6V	25-30A	± 25μΩ	0.1% - ± 3mV	3.3mΩ ± 5μΩ
8-12V	30-35A	± 75μΩ	0.1% - ± 6mV	5mΩ ± 10μΩ
16V	5A	± 400μΩ	0.1% - ± 10mV	20mΩ ± 20μΩ

Warranty

1-year limited warranty

Ordering Information

1000-056

Cellcorder including software, carrying case, USB Flash drive, battery charger, cables, test and voltage leads.

Optional Accessories

4200-002 Battery Analysis User's Guide
 1000-056BT CRT with Bluetooth option
 2025-036 Bluetooth wireless headset
 2027-014 CRT BAS Software
 4200-040 CRT Previewer User's Guide
 4200-038 CRT User's Guide
 2120-053 A JAWS (see www.alber.com)
 2120-056 JAWS (see www.alber.com)
 2120-057 JAWS (see www.alber.com)
 2120-058I JAWS (see www.alber.com)
 2025-124 Printer with IRDA interface
 Various Spike probe options
 2030-004 USB Flash Drive

*Specifications subject to change without notice

Made in U.S.A.

Albér Leads the Way ...

As the only manufacturer offering comprehensive solutions for ALL accepted battery maintenance procedures, Albér continues to set the standard in battery testing and monitoring technology. Our broad range of products provides you every possible solution your business could ever need.

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Albécorp

3103 N. Andrews Ave. Extension / Pompano Beach, FL 33064
 Phone: 800.851.4632 / Fax: 954.623.6671
 Internet: <http://www.alber.com> / email: sales@alber.com

Battcon International Battery Conference
 Visit www.battcon.com for details.