

# Alber

Trust Your Batteries



**CELLCORDER**<sup>®</sup>  
CRT-300 Cell Resistance Tester

# CELLCORDER®

## CRT-300 Cell Resistance Tester

The New **CELLCORDER®** at a glance. Lightweight, stylish, rugged and durable. Special features include new user friendly operation, Memory Card, modem, graphical transreflective LCD display for better contrast, and new cables and clamps.



Custom designed cables and clamps with interchangeable jaws for different battery post designs.

- A** Ventilation  
Temperature controlled cooling fan.
- B** Test Lead Connector  
Molded test cables and optimized battery clamps.
- C** Memory Card  
Standard Smart Media card for data storage.
- D** Shoulder Strap  
Adjustable shoulder strap for safe and efficient testing.
- E** Keypad  
Combination keypad for alphanumeric data entry. Shift key for quick function keys.
- F** Test Key  
Initiates the test sequence.
- G** Transreflective LCD  
Backlit graphical LCD display with excellent contrast. Improved contrast in direct sunlight.
- H** AC Power Indicator  
Illuminated when connected to AC power.
- J** Battery Charge Indicator  
Indicates battery charging progress.
- K** Memory Card Indicator  
Illuminated when Memory Card is accessed.
- L** Multi Function Menu Buttons  
Interactive buttons that correlate to relevant menu alternatives on screen.
- M** Power On/Off  
Press for start-up. Press and hold for shut down.
- N** Navigation Key  
Easily navigate and select choices in menus.
- P** Infrared Port (not shown)  
Wireless IrDA communication to printer, PDA, DMA-35N Hydrometer or laptop.
- Q** Beeper  
Alerts valid entry or faulty test results.
- R** Internal Modem (not shown)

# Using the **CELLCORDER**<sup>®</sup>

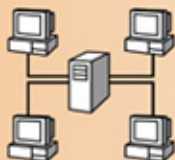
A world of possibilities...



The new graphical display makes it easier to navigate through the menus.



The test screen shows the cell number, internal resistance, voltage and four intercell connections.



Use the internal modem to upload data to your corporate server for data management.



The Memory Card holds the measurements and can be used to transfer data to a PC.



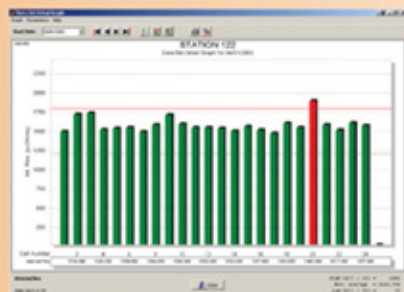
Download data from the Hydrometer.



Communicate with laptops or handheld devices.



Print on site using non-impact printer.



The Battery Analysis Software helps you identify bad cells, generate descriptive reports and archive data.



Measurements are stored and presented to allow trending and make it possible to detect early performance degradation in individual battery cells.

"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."

Check the Albér website for more information about the Internal Resistance method.

<http://www.alber.com>



**Specifications\* for:**

**CELLCORDER® CRT-300 Cell Resistance Tester**

**Physical**

Dimensions H 305 mm (12") x W 178 mm (7") x D 76 mm (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 EL

**Memory**

Type Smart Media Card  
 Supported Sizes 8MB, 16MB, 32MB, 64MB and 128MB (8MB supplied)  
 Storage Capability 71 strings with 256 cells per megabyte (8MB size card can store 568 strings)  
 Data Retention 10 years

**Communication**

Infrared Fully IrDA compliant for PDA/PC interface  
 Internal Modem Physical IrDA compliant for printer interface V32bis

**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°C (<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

**Accuracy**

Input	Test Current	Resistance Resolution +/- 0.1% of reading	Voltage Resolution	Intercell Range/Resolution
2V	50A	± 5µΩ	0.1% - ± 1mV	2mΩ ± 2µΩ
4-6V	25-35A	± 25µΩ	0.1% - ± 3mV	3.3mΩ ± 5µΩ
8-12V	15-20A	± 75µΩ	0.1% - ± 6mV	5mΩ ± 10µΩ
16V	5A	± 400µΩ	0.1% - ± 10mV	20mΩ ± 20µΩ

**Warranty**

1-year limited warranty

**Ordering information**

CRT-300

Cellcorder including software, carrying case, battery charger, cables and clamps.

**Optional accessories**

2025-124  
 2025-031  
 2030-002

Printer with IRDA interface  
 Internal Modem  
 Smart Media Memory Card 128MB

\*Subject to change without notice.

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