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# C7000™

## Battery Analyzer - Reconditioner

### The World's Most Advanced Battery Analyzer

- Accommodates all battery types
- Simple operation
- Services four batteries simultaneously
- Fast-charging with Reverse-pulse technology
- Test impedance in seconds
- Deep-discharge reconditioning doubles battery life
- Pre-programmed battery holders
- Option to print labels and service reports
- Optional battery management and control software to service up to 480 batteries simultaneously



#### **Accommodates all battery types**

The **C7000™** services Ni-Cad, NiMH, Li-Ion and SLA batteries to a maximum of 15 Volts.

#### **Simple operation**

Capacity is displayed in % of rated capacity. Batteries are serviced with maximum speed and efficiency by setting the charge algorithm based on each battery's individual parameters. Fault codes report over 30 anomalies in plain English.

#### **Services four batteries simultaneously**

Each station independently charges, tests or reconditions batteries.



Barcode Scanner

#### **Fast-charging with Reverse-pulse technology**

Ni-Cad and NiMH batteries are charged faster, cooler and more effectively with Cadex's proprietary "reverse-pulse" charge than with DC charge.

#### **Test impedance in seconds**

The Ohm Test will test the battery impedance in seconds and will fail the battery on high impedance.

#### **Deep-discharge reconditioning doubles battery life**

Ni-Cad and NiMH batteries with memory are rejuvenated with Cadex's proprietary deep-discharge *Recondition* cycle. The **C7000™** pays for itself in less than one year by doubling battery life, improving reliability and restoring batteries.

#### **Pre-programmed battery holders**

*Snap-lock* battery holders can be changed in seconds to support all major batteries. Over 600 adapters are currently available.

The **C7000™** serves as a charger and battery maintenance system. Operating programs can be easily changed between *Charge*, *Ohm Test* and *Recondition*.

- **Auto mode**  
Exercises batteries and automatically reconditions those with poor capacity.
- **Charge**  
Uses Cadex's reverse-pulse technology to quickly and effectively charge a battery. The charge current is automatically adjusted up to a maximum of 2 Amps based on the battery type.
- **Ohm Test**  
Checks battery condition in five seconds.
- **Recondition**  
Full charge / discharge capacity test. Ni-Cad and NiMH batteries are reconditioned if below set target capacity.
- **Prime** cycles new batteries to peak capacity.
- **Custom mode**  
Allows the user to create specialized programs such as self-discharge test and life cycling.



Printer

#### **Printer option to generate labels and service reports**

A printer connects directly to the analyzer and allows you to print service labels and customized maintenance reports.



# Specifications C7000 •C7000ER Battery Analyzer - Reconditioner

## SYSTEM

Four independent stations for simultaneous service of four batteries. Reads battery capacity in percentage of nominal rating; verifies voltage; measures battery temperature and displays battery impedance in milliohms. Batteries are tested against pre-set parameters. Battery parameters are user-programmable through the analyzer's keypad.

## BATTERY CHEMISTRIES

Serves NiCd, NiMH, Li-ion and SLA batteries. The Li-ion chemistry is subdivided into coke, graphite-1 and graphite-2. The SLA provides settings for valve regulated and cylindrical cells. Each chemistry uses a distinct algorithm; multiple redundant full-charge detection with temperature override.

## BATTERY ADAPTER

Pre-programmed adapters for commercial batteries; universal Smart Cable for irregular batteries. Battery Adapters are interchangeable and re-programmable while other batteries are serviced. Each adapter holds 10 C-Codes which are retained when removed from the analyzer.

## SECURITY SYSTEM

Password protection safeguards against tampering.

## RANGE

Model	Battery Voltage	Battery Capacity	Ch/Dch per Stn	Power Supply
C7000	1.2-15V	100mAh-24Ah*	max 2A	80W**
C7000ER	1.2-30V	100mAh-24Ah*	max 2A	160W**

\* scales to lower C-rates on batteries higher than 2Ah

\*\* continuous, intelligent overload protection.

## PROGRAM SELECTION

- **OhmTest** checks battery condition in five seconds.
- **Prime mode** conditions new batteries by applying repetitive charge and discharge cycles until peak capacity is reached; program duration 4-8 hours<sup>1)</sup>.
- **Charge mode** provides fast-charge function. Typical charge time 60 to 120 minutes<sup>1)</sup>.
- **Auto mode** exercises batteries and automatically reconditions those that have lost capacity<sup>2)</sup>; program duration 3-5 hours, up to 12 hours if recondition cycle required<sup>1)</sup>.
- **Custom mode** allows the user to create specialized programs such as self-discharge test and life cycling.

## SPECIAL FEATURES

- **Target Setting** sets "pass/fail" criteria. Automatically applies recondition<sup>2)</sup> if target capacity is not met.
- **Standby mode** conditions batteries every one to six months (chemistry dependent). Keeps batteries at readiness without adverse side effects.

- **Reverse Load Charge** applies brief discharge pulses between charge pulses to improve charge efficiency and reduce "memory" on NiCd and NiMH batteries.

## THROUGHPUT PER UNIT

Based on recommended monthly maintenance schedule of two batches per day (20 days per month), each C7000 processes four batteries every 4-8 hours<sup>1)</sup>. Maintains a fleet of up to 160 batteries.

## ACCURACY

Voltage  $\pm 1\%$  operating at maximum rated voltage. Current  $\pm 2.5\%$  at 1A.

## LINE VOLTAGES

Model	Line Voltage	AC Load
C7000	115VAC +/- 10%; 60Hz	180W max
	100VAC +/- 10%; 50-60Hz	180W max
	220-240VAC +/- 5%; 50-60Hz	180W max
C7000ER	90-250VAC; 47-63Hz Power factor corrected	225W max

## DATA PORT

RS-232 interfaces to computer, serial printer or label maker (CoStar); prints service reports and battery labels. Additional printers can be supported by a PC running BatteryShop™ software.

## PHYSICAL

W 280mm (11") D 425mm (16.7") H 88mm (3.6"); 6kg (13lb)

## WARRANTY

Limited two (2) year parts and labour.

## APPROVALS

CSA/UL and CE 1) 1C rate on NiCd 2) NiCd and NiMH only

## OPTIONS

- OP-70: Parallel printer output and battery backup RAM to retain test data on power failure, resumes program when power restored; includes internal date and time.
- OP-72: Same as OP-70 with bar code reader to scan battery ID number and program Battery Adapters.

1) 1C rate on NiCd 2) NiCd and NiMH only



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