CADEX

C8000

Advanced Battery Analyzer

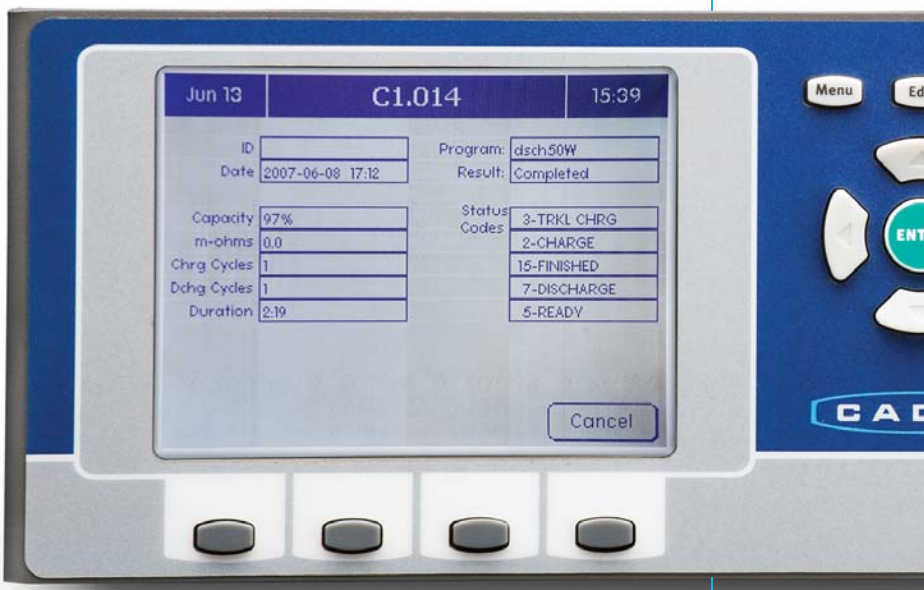
CADEX.COM/C8

AN OUT-OF-THIS-WORLD BATTERY ANALYZER

CREATED FOR ADVANCED USERS

The Cadex C8000 delivers the versatility needed to ensure you get the right performance from the batteries used in your applications. The C8000 is a multi-purpose tool that allows you to optimize batteries at every stage of product life.

ACCEPTS
NICKEL
LEAD-ACID
LITHIUM



THE ULTIMATE BATTERY LAB TOOL

Capture load signatures of power tools and laptops and then perform simulated battery runtime by replaying the stored data. Or add a thermal chamber, external load bank and other accessories.

CONNECT VIA
ETHERNET
SERIAL
PORT

UP TO
36V,10A, 100W
PER PORT

CAPACITY RANGE
50mAh-1,000Ah

BORN VERSATILE
YOUR LAB-SWISS KNIFE

- Choose the right battery by simulating a device
- Characterize the battery thanks to Life Cycle Testing
- Monitor quality and performance with Custom Programming
- Maintain your batteries with built-in Service Programs

4
INDEPENDENT
CHANNELS

MOUNTING
OPTIONS
DESK & RACK

THE SKY
IS THE LIMIT

When you acquire a C8000, you're getting one of the most advanced and flexible battery analyzer in the industry. Create your own lab system and transform your C8000 into the command center

POWERFUL SOFTWARE

PC BATTERYLAB™

Cadex BatteryLab™ provides a simple, yet powerful interface to control and monitor the C8000. With a PC, the control shifts from the analyzer's front panel to the PC.

Start programming by entering the battery parameters or choose a battery from the existing built-in database. BatteryLab™ will display the test results using real-time graphics.

Learn more at **cadex.com/batterylab**

AT A GLANCE

- Operates up to eight C8000 Analyzers = 32 batteries
- Control and monitor your tester from a PC
- Allows custom program development
- Readings and graphic results in real time
- Manage and print results
- Compatible with Windows XP

SERVICE PROGRAMS

Format, condition and restore batteries

AUTO

Exercises batteries and applies recondition if the user-set target capacity cannot be reached (nickel-based batteries)

PRIME

Prepares batteries for field use by repeated cycling until maximum capacity is reached

BOOST

Activates seemingly dead batteries

CHARGE

Applies fast charge; terminates charge when the battery is full; applies trickle charge (depending on battery chemistry)

EXTENDED PRIME

Applies 16-hour trickle charge prior to Prime. Prepares difficult to charge batteries

RAPID TESTS

Checks batteries without discharging

OHMTEST™

Measure battery resistance with DC pulses (based on IEC61436), 13 seconds

IMPEDANCE

Measures battery resistance with 1000Hz signal. (Channel 1 only)

ADVANCED PROGRAMS

Automated testing for specialty requirements

WAVEFORM TESTS

GSM, CDMA or customized tests

LIFE CYCLE

Cycles battery until end-of-life

DISCHARGE ONLY

For storage, test applications

RUN TIME

Allows three different discharge levels, programmable in hours and minutes

SELF-DISCHARGE

Measures self-discharge

CUSTOM PROGRAMS

Via PC

If none of the built-in Programs are what you're looking for, you can create your own test routines for your specific requirements.

- 100 Programs — allows up to 100 user-defined programs

C8000
ANALYZER

The Cadex C8000 is intuitive to use and requires minimal training. Chemistry-specific programs provide safe operation for all major battery types.

Take advantage of a large selection of standard programs or create your own custom routine to meet your exact testing requirement.

Connectivity

I/O Capability

- 4 differential analog inputs: up to 50V
- 4 digital inputs: 0–5V
- 2 general purpose analog outputs: 0–5V
- SMBus Enabled: 5 possible termination signals

Range

Voltage: Nominal 1.2V – 36V Current:

- Up to 10A charge and discharge
- 20A with Dual Port Power Cables (DPPCs) to combine channels
- Up to 240A discharge with external digital load
- Battery Capacity: 50 mAh – 1000 Ah

Accuracy:

- Voltage = ±0.1%
- Current = ±0.25% full scale

Battery Chemistries

All standard battery types

- Lead Acid
- Ni-based: NiMH, NiCd
- Li-based: Li-ion, Li-Phosphate

Accessories

Cadex Load Capture Unit (LCU)
Part Number: 11-308-0011

Captures load signatures of up to 100A and digitizes the information for reply in the C8000.

External adapter unit

Power and auxiliary port cables

Dual power port cables (DPPC)

Third Party Accessories

High Power Digital Load

Thermal Chambers

Most Digital and Analog I/O devices

> "We have been using the C8000 for testing many different battery packs from several vendors. The C8000 was extremely easy to setup and start testing batteries in minutes. We typically do cycle life tests which take 50 days and the C8000 has no issues running for months unattended. We have now added another C8000 to our rack system."

Jamie Wojcik
Senior Hardware Engineer
1 OAK Technologies

UP TO THE HIGHEST STANDARD

AEROSPACE
Higher power available to test your aircraft batteries

INDUSTRIAL
Perform a full battery analysis for your tools, and End-of-Line quality control

MANUFACTURING
Ensure device consistency, cell and pack quality, device simulation and extreme testing

MILITARY
Deploy only performing batteries by doing regular analysis and conditioning

RESEARCH
Perform whatever test you wish with extreme program-mability, I/O ports to develop your own tools

UAV/DRONES
Analyze and condition your drone batteries to ensure maximum reliability on the air

YOUR LIFE. EMPOWERED

CADEX ELECTRONICS, INC
VISIT **CADEX.COM/C8** FOR MORE INFORMATION
ENQUIRIES: **INFO@CADEX.COM**

@CADEXELECTRONIC