GAIN AN ADVANTAGE.

CELLTRON ADVANTAGE

MODULAR BATTERY ANALYSIS SYSTEM

Battery management and testing are critical for maintaining power integrity for telecom networks, data centers, utility transmission and distribution systems. The demand placed on these systems has increased dramatically in the past decade. Service providers, operations and maintenance teams need to gain an advantage over this mounting responsibility. The ***CELLTRON ADVANTAGE*** system provides a user-customizable, flexible, efficient and economical tool to take on this critical task while saving time and expense.

MIDTRONICS | Stationary Power

CELLTRON ADVANTAGE

A COMPREHENSIVE BATTERY ANALYSIS TOOL OFFERING:

- Conductance based diagnostics proven effective for identifying & trending battery health
- Highly efficient test process: 50% reduction in test time from other battery analyzers
- Less invasive testing approach reduces battery discharge, voltage measurement skew and allows for more tests on a single internal battery without recharge
- Full compatibility with Midtronics ***CELLTRAQ*** Battery Data Management System for simple and efficient data tracking, reporting and decision making; data transfer via USB
- Field software updates, including module add-ons
- Interchangeable test interfaces for technician ease of use and lower maintenance cost
- Integrated battery temperature measurement
- Integrated lighted test interfaces
- Test continuity/accuracy indication on test interfaces
- USB data connection and storage compatible
- On board battery pack to support test time of 6-8 hours

APPLICATION COMPATIBILITY:

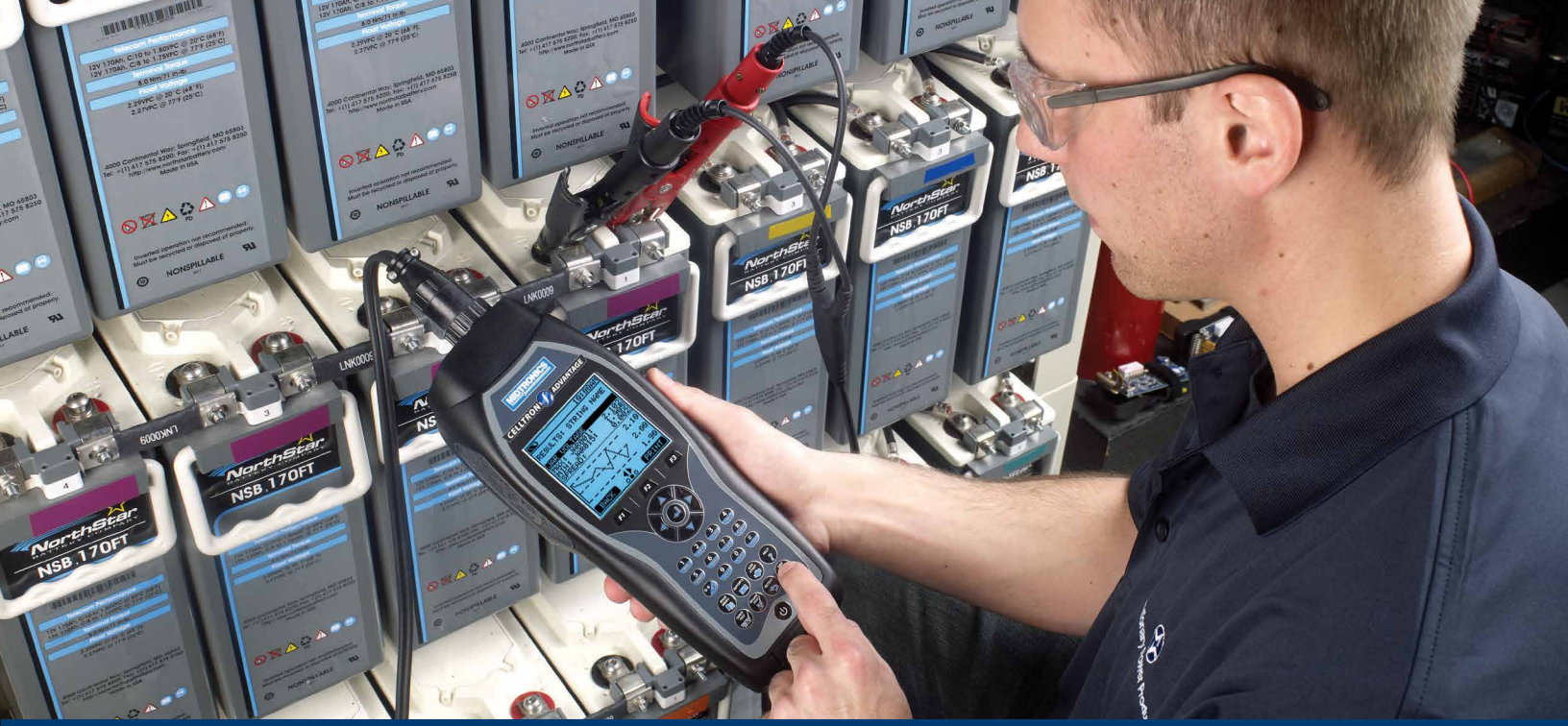
- Telecom/DC Plants online
- All UPS applications
- Utility switchgear & communications systems
- Battery voltages down to 1 volt, including nickel cadmium cells

FEATURES COMPLETE SOFTWARE MODULARITY/ADD-ONS FOR JUST WHAT IS NEEDED TO GET THE JOB DONE:

- Base unit provides battery Conductance (state of health assessment), voltage and integrated temperature measurement
- Custom modules available to meet battery program needs:
  - o Guided test interface to simplify technician interaction
  - o Integrated site trending capability
  - o Multimeter functionality
  - o Discharge test manager: increase automation and accuracy of discharge test
  - o Generator starting battery test
  - o Decision/Algorithm that provides estimated Ampere Hours by battery jar*

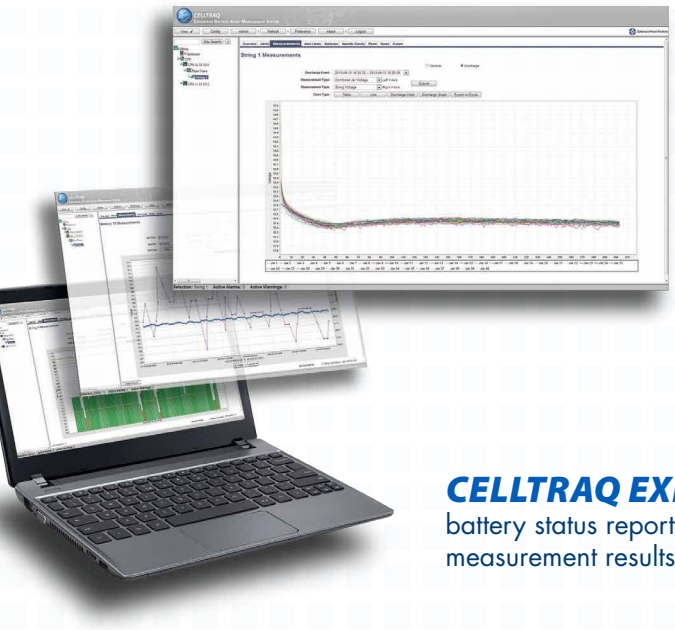
*for future release

MIDTRONICS | Stationary Power



KIT CONFIGURATIONS

- **GOLD KIT** (CAD 5500)
  - o Tester
  - o Standard Mode Testing
  - o Probe and cable
  - o USB Drive for Excel Data Transfer
  - o Battery Pack (2)
  - o Hard Case
  - o Multimeter
  - o Generator Start
  - o In-unit trending
  - o Guided Test Interface /AH Test algorithm
  - o Discharge Manager
  - o Probes, clamps and cable
  - o USB Cable
  - o ***CELLTRAQ EXPRESS***
- **SILVER KIT** (CAD 5200)
  - o Tester
  - o Standard Mode Testing
  - o Probe and cable
  - o USB Drive for Excel Data Transfer
  - o Battery Pack (2)
  - o Hard Case
  - o Multimeter
  - o Generator Start
- **BRONZE KIT** (CAD 5000)
  - o Tester
  - o Standard Mode Testing
  - o Probe and cable
  - o USB Drive for Excel Data Transfer
  - o Battery Pack (1)
  - o Case



CELLTRON ADVANTAGE IS COMPATABLE WITH

CELLTRAQ ENTERPRISE

CELLTRAQ ENTERPRISE is a commercial grade, server based system designed to manage battery data. ***CELLTRAQ*** interfaces via USB with ***CELLTRON ADVANTAGE*** for the storage, analysis, and reporting of battery stats, including:

- Efficient review of battery system state of health
- Remote indication of battery asset conditions from a centralized database
- Reporting and management tools

CELLTRAQ EXPRESS is a PC (non-server network) software designed for effective battery status reporting. Transferred via USB media, ***CELLTRAQ EXPRESS*** displays the measurement results through your computer where a PDF report can be generated.

CELLTRON ADVANTAGE S P E C S :

Model Numbers:
CAD-5500 (Gold Kit)
CAD-5200 (Silver Kit)
CAD-5000 (Bronze Kit)

Applications:
Tests individual Lead-Acid or Nickel-Cadmium cells or Monoblocs (up to 16Volts) in any common configuration, approximately 10-6000Ah.

Voltage Range:
.8 - 20.0 Volts DC

Conductance Range:
100 - 19,990 Siemens

Test Data Storage:
50 string locations of 280 test results stored internally, unlimited transfer to USB drive

Accuracy:
+/-2% across test range, Voltage and Conductance

Voltmeter Resolution:
5mV

User Programmable Functions:
- Preset values for over 250 battery types
- Low voltage alarm setting
- Low conductance warning
- Low conductance failure
- Test mode (pushbutton/auto start)

Cable Options:
- Dual contact clamps
- Dual contact probes
- Custom cables by quotation

Power Requirements:
7.2V, 2500mAh, NiMH
Internal swappable battery& charger

Display:
LCD- FST 2.97 in x 2.81 in (75.4 mm x 71.3mm), 128 x 128 pixels, 40 degree viewing angle, contrast ratio8, LED backlight

Keypad:
Alpha-numeric, Stainless-steel dome, polycarbonate overlay, 1,000,000 actuations

Data Transfer:
USB Flash Drive (Type A)
USB PC Interface (Type B)
Infra-red, half-duplex IRDA Protocol for optional printer

Environmental Operating Range:
0 to+40°C, 95% relative humidity, non-condensing

Storage Temperature:
-20 to 82°C

Over Voltage Protection:
- Auto-reset disconnect
- Reverse polarity protected

Housing Material:
Acid-resistant ABS plastic
Santoprene overmold

Analyzer Dimensions:
11in x 4in x 3in
279mm x 105mm x 80mm

Case Dimensions:
19in x 15.5in x 7in
485mm x 395mm x 180mm

Analyzer Weight:
1 Kg/2.6 lb
CAD-5500 Test Kit Shipping Weight:
Approximately 5 Kg/11 lb

MIDTRONICS | Stationary Power

Available from:

RIPEENERGY
The Power Conversion Company
RIPEnergy AG
Wägitalstrasse 24
CH-8854 Siebnen
Switzerland
Ph +41-(0)43-818 53 85
www.ripenergy.ch