

### **BATTERY TESTERS**

## **CELLTRON™ ADVANTAGE DIGITAL BATTERY TESTER**

The CELLTRON<sup>™</sup> Advantage Digital is a fast, user friendly, premium handheld tester for measuring battery conductance, voltage, temperature and strap resistance in high-noise environments for a complete battery state-of-health analysis. With the capability to test Valve Regulated Lead Acid (VRLA), Vented Lead Acid (VLA), and Nickel Cadmium (NiCad) batteries, the CELLTRON™ Advantage Digital can measure battery voltage down to one (1) volt as well as measure intercell and terminal connection resistance.













## **HIGHLIGHTS & TECHNOLOGY**

The conductance-based diagnostics provided by the CELLTRON<sup>™</sup> Advantage Digital delivers a highly accurate and reliable predictor of the battery's end of life.

Built-in Wi-fi enables tester data to quickly and wirelessly be transmitted to and from the tester with no additional cards, cords, or hardware required.

The powerful dual-microprocessor architecture allows the tester to stand up to the high noise environments caused by UPS/battery systems and constant power supply switching (notorious for causing testers to fail).

Tests individual Lead-Acid cells, Ni-CAD, or Monoblocs (up to 18Volts) in any common configuration, approximately 10-6000Ah.

Dual microprocessor signal filtering, integrated IR temperature measurement, built-in Wi-fi, USB communication port, interchangeable light-up probe and clamp testing interfaces, and a 16-hour rechargeable on-board battery pack.

Cleaner, more precise battery state-of-health measurements are achieved through new "Edge Rejection" technology which filters out anomalies that can corrupt battery signal readings at both the beginning and end of each sample signal.

A fast-acting protection relay responds in milliseconds when a signal input in excess of 23.3 volts is introduced through the testing probes, providing instant protection to both the device and the user.

The web-based UNITE™ software is a sophisticated database with advanced data visualization tools that accommodates Franklin's portfolio of industrial IoT devices. It enables users to wirelessly pre-program site string details, export the details to the tester, and upload battery test for analysis and reporting.

## APPLICATIONS

CRITICAL POWER









Integrated lighted test interfaces allows the user to see battery post connections clearly in dark conditions.

DATA CENTERS

## SPECIFICATIONS GENERAL

Voltage Range	0.8 - 23.5 Volts DC
Conductance Range	100 - 19,990 Siemens*
Test Data Storage	<ul> <li>50 string locations of 240 test results</li> <li>Stored internally</li> <li>Unlimited transfer to USB drive</li> </ul>
Accuracy	+/-2% across test range, voltage & conductance
Voltmeter Resolution	5mV
Power Requirements	<ul><li>7.2V, 2300mAh, NiMH</li><li>Internal swappable battery &amp; charger</li></ul>
User Programmable Functions	<ul> <li>Preset values for over 250 battery types</li> <li>Low voltage alarm setting</li> <li>Low conductance warning</li> <li>Low conductance failure</li> <li>Test mode (push button/auto start)</li> </ul>
Power Requirements	– English – German – Portuguese – Russian – Spanish – Polish – Dutch – French

### HARDWARE

Dimensions	11in x 4in x 3in (279mm x 105mm x 80mm)
Weight	2.6 lb (1 Kg)
Housing Material	<ul> <li>Acid-resistant ABS plastic</li> <li>Santoprene<sup>™</sup> overmold</li> </ul>
LCD Display	<ul> <li>2.97 in x 2.81 in (75.4 mm x 71.3mm)</li> <li>128 x 128 pixels</li> <li>40 degree viewing angle</li> <li>LED backlight</li> </ul>
Keypad	<ul> <li>Alpha-numeric</li> <li>Stainless-steel dome</li> <li>Polycarbonate overlay</li> <li>1,000,000 actuations</li> </ul>
Storage Temperature	-4 to 180°F (-20 to 82°C)
Environmental Operating Range	<ul> <li>0 to +104°F (0 to +40°C)</li> <li>95% relative humidity</li> <li>Non-condensing</li> </ul>
Over Voltage Protection	<ul><li>Auto-reset disconnect</li><li>Reverse polarity protected</li></ul>
Data Transfer	<ul> <li>Wifi</li> <li>USB 2.0 Flash Drive (Type A)</li> <li>USB 2.0 PC Interface (Type B)</li> <li>Half-duplex IrDA protocol for optional printer</li> </ul>
Cable Options	<ul> <li>Dual contact clamps</li> <li>Dual contact probes</li> <li>Custom cables by quotation</li> </ul>

\*Conductance testing voltage range 1V to 23.3V. Battery should be fully charged for best results.

## **SPECIFICATIONS CONTINUED**



## **SPECIFICATIONS CONTINUED** SOFTWARE, APPLICATIONS & TOOLS

All CELLTRON™ Advantage Digital Battery Testers come fully-loaded with these standard applications and tools for quick testing, tester customization, and easy data management.



BATTERY TEST Standard, conductancebased battery testing.



### **THRESHOLDS**

Set tester thresholds for voltage, conductance, and temperature.



### SITE TRENDING

Effective trend analysis including test comparisons in one screen.



DATA MANAGER Upload, download, and delete testing data.

QUICKTEST

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**QUICK TEST** 

Start a test on a single

cell or monoblock without

setting up a site.

CAPACITY MANAGER

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**CAPACITY MANAGER** 

Record cell voltages on

a timed interval during

a capacity load test.

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SELECT

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SELECT

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### **BATTERY MANAGER**

Select from a library of pre-loaded battery manufacturers and types.



**REPORTS** 

Generate reports for individual battery string results.



FAVORITE SETUP Set up favorites for quick access.



AUTOSTART

Set the tester to activate a test process on contact.



### **GEN START**

Test the state of health of generator starting batteries.



### **DIGITAL MULTIMETER**

Accurately measure a battery's DC voltage.

# **ORDERING INFORMATION**

## **CELLTRON™ ADVANTAGE DIGITAL BATTERY TESTERS**





#### Model Description CADD-5000 KIT Basic CELLTRON™ Advantage Digital Battery Tester Kit

- Belt loop
- Battery pack
- Universal charger
- Backpack
- Free 90-day UNITE™ trial
- 1 meter USB cable

### Model

### Description

CADD-5500 KIT Complete CELLTRON™ Advantage Digital Battery Testing Kit

- CELLTRON™ Advantage Digital
- Belt loop \_
- Battery pack (2)
- Universal charger
- 1 meter USB cable
- Backpack
- Free 90-day UNITE™ trial
- 4' interchangeable cable

- 8' probe cable \_
- Probe set
- Probe tip replacements
- Clamp set
- Waffle replacements
- Probe extender for 8' probe cables
- Probe extender for 4'probe cables



### Model

- CADD-5200 KIT Enhanced CELLTRON™ Advantage Digital Battery Testing Kit
- CELLTRON™ Advantage Digital
- Belt loop
- Battery pack (2)
- Universal charger
- 1 meter USB cable
- Backpack \_
- Free 90-day UNITE™ trial
- 4' interchangeable cable

- Description
- - Probe set
  - Probe tip replacements \_
  - Clamp set
  - Waffle replacements











Model	Description
CA093R	Red 6" lighted probe

- 6" probe with rotating head and ½" tip for instant contact
- Designed with an internal LED to light those hard to see battery posts in dark places
- Quick connect/disconnect radio frequency BNC connector for easy removal
- Replaceable gold-plated over Duralloy<sup>®</sup> dual probe tips

Model	Description
CA093B	Black 6" lighted probe
<ul> <li>6" probe with respectively.</li> </ul>	otating head and ½" tip for instant contact

- Designed with an internal LED to light those hard to see battery posts in dark places
- Quick connect/disconnect radio frequency BNC connector for easy removal
- Replaceable gold-plated over Duralloy<sup>®</sup> dual probe tips

Model	Description
CA093	(1) red and (1) black 6" lighted probe
<ul> <li>6" probe with rotating head and ½" tip for instant contact</li> </ul>	

- Designed with an internal LED to light those hard to see battery posts in dark places
- Quick connect/disconnect radio frequency BNC connector for easy removal
- Replaceable gold-plated over Duralloy® dual probe tips

Model	Description
CA069	Replacement probe tips (4 probe tips, 2 probe caps)
CA031	Replacement probe waffle tips (4 probe tips)

Replaceable gold-plated over Duralloy<sup>®</sup> dual probe tips

Model	Description
CA025	8' CELLTRON™ Advantage probe cable
<ul> <li>Flex strain r</li> </ul>	relief and spread of 48" with "Y" junction, for 6 and 12 Volt batteries only

- 6" rotating heads and half inch tips for instant contact
- Replaceable gold-plated over Duralloy<sup>®</sup> dual probe tips







Model	Description
CA092R	Red 6.5" piranha lighted clamp

- 2" opening to attach to large battery terminals
- Designed with an internal LED to light those hard to see battery posts in dark places
- Quick connect/disconnect radio frequency BNC connector for easy removal

Model	Description
CA092B	Black 6.5" piranha lighted clamp
<ul> <li>2" opening to attach to large battery terminals</li> </ul>	

- Designed with an internal LED to light those hard to see battery posts in dark places
- Quick connect/disconnect radio frequency BNC connector for easy removal

Model	Description
CA092	(1) red and (1) black 6.5" piranha lighted clamps
<ul> <li>2" opening to attach to large battery terminals</li> </ul>	

- Designed with an internal LED to light those hard to see battery posts in dark places
- Quick connect/disconnect radio frequency BNC connector for easy removal





- Quick connect/disconnect radio frequency BNC connector for easy removalç \_
- Compatible with CA092 clamps and CA093 probes

Model	Description
CA034	30" probe extenders
C034	30" lighted probe extenders
C033	Replaceable optic lamp kit for probe extenders with adhesive tape

- Soft rubber handles
- Utilized in hard-to-reach areas such as UPS cabinets
- Weight: 2 lbs
- CA034 are used with the CA026/CA093
- C034 are used with the CA025, 8' CELLTRON<sup>™</sup> Advantage probe cable









### Description

CELLTRON™ Advantage 7.2V NiMH rechargeable battery pack

- Battery pack can be recharged by the CELLTRON™ Advantage or with the CA096 desktop charger
- Holds a nominal capacity of 2280mAh of standard charge for a full day of testing
- Rapid charge rate of 2250mA per 1.2hrs for quick recharge







AC power adapter included with an input of 120-240VAC 50-60HZ and output of 12VDC 2.5Amp

Model	Description
CA091	CELLTRON™ Advantage universal in-unit battery charger
– Input: 100-240	V 60Hz/50Hz 14W

– Output: 7.2V, 700mA 5.04VA

Model	Description
CA049	CELLTRON™ Advantage 39" USB A/B cable

– For USB 2.0 communication between a PC and the CELLTRON™ Advantage

Model	Description
CA089	4GB USB 2.0 drive for use with CELLTRON™ Advantage

 Export test data from the tester on to the USB drive or import tester configuration from the USB drive to the tester

Model Description	
CA087	Thermal IR / RS232 printer for use with CELLTRON™ Advantage
- Power adapter	and 4 NMH rechargable AA batteries included
<ul> <li>Weight: 1 lb</li> </ul>	

- Dimensions: 2.25"H X 75"L X 3.25"W









Model	Description
A090	Power adapter / charger for CA087 thermal IR / RS232 printer

Battery pack can be recharged by the CELLTRON™ Advantage or with the CA096 desktop charger

- Holds a nominal capacity of 2280mAh of standard charge for a full day of testing
- Rapid charge rate of 2250mA per 1.2hrs for quick recharge



Model	Description
A095	6 pack of thermal printer paper for CA087 printer



Model			Description
CO40	Multidigital Am	p and V	'olt meter
<ul> <li>40A DC/AC rang</li> <li>.90" (23mm) di</li> <li>One touch zero</li> <li>400V DC/AC rang</li> <li>Requires 2 AA b</li> </ul>	ameter jaw button nge	_	600V overload protection for Ohm measurement Weight: 1.5 lbs Dimensions 10"L X 2"H X 4"W



Model	Description
CA100	Custom backpack for CELLTRON™ battery testers
<ul> <li>Customized</li> </ul>	inserts fitted for the CELLTRON™ handheld testers and accessories

Backpack only, tester and accessories sold separately