

BATTERY TESTERS

CELLTRON™ ADVANTAGE DIGITAL BATTERY TESTER

The CELLTRON[™] 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.













HIGH NOISE IMMUNITY

HIGHLIGHTS & TECHNOLOGY

The conductance-based diagnostics provided by the CELLTRON[™] 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



DATA CENTERS







TELECOMM

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

SPECIFICATIONS GENERAL

Voltage Range	0.8 - 23.5 Volts DC
Conductance Range	100 - 19,990 Siemens*
Test Data Storage	 50 string locations of 240 test results Stored internally Unlimited transfer to USB drive
Accuracy	+/-2% across test range, voltage & conductance
/oltmeter Resolution	5mV
Power Requirements	 7.2V, 2300mAh, NiMH Internal swappable battery & charger
User Programmable Functions	 Preset values for over 250 battery types Low voltage alarm setting Low conductance warning Low conductance failure Test mode (push button/auto start)
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	 Acid-resistant ABS plastic Santoprene[™] overmold
LCD Display	 2.97 in x 2.81 in (75.4 mm x 71.3mm) 128 x 128 pixels 40 degree viewing angle LED backlight
Keypad	 Alpha-numeric Stainless-steel dome Polycarbonate overlay 1,000,000 actuations
Storage Temperature	-4 to 180°F (-20 to 82°C)
Environmental Operating Range	 0 to +104°F (0 to +40°C) 95% relative humidity Non-condensing
Over Voltage Protection	 Auto-reset disconnect Reverse polarity protected
Data Transfer	 Wifi USB 2.0 Flash Drive (Type A) USB 2.0 PC Interface (Type B) Half-duplex IrDA protocol for optional printer
Cable Options	 Dual contact clamps Dual contact probes Custom cables by quotation

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

SPECIFICATIONS CONTINUED

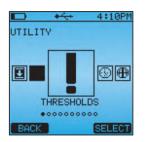


SPECIFICATIONS CONTINUED SOFTWARE, APPLICATIONS & TOOLS

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.

• I

SELECT

UTILITY

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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.



CAPACITY MANAGER

Record cell voltages on a timed interval during a capacity load test.



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

CADD-5000 KIT

Belt loop Battery pack Universal charger

Backpack

Model

Description

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

CELLTRON™ Advantage Digital

Free 90-day UNITE™ trial 1 meter USB cable

- 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

Description

Basic CELLTRON™ Advantage Digital Battery Tester Kit

- 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 $\frac{1}{2}$ " 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[®] dual probe tips

Model	Description
CA093B	Black 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[®] dual probe tips

Model	Description
CA093	(1) red and (1) black 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® 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[®] dual probe tips

Model	Description
CA025	8' CELLTRON™ Advantage probe cable
 Flex strain rel 	ef 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[®] 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
 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
CA092	(1) red and (1) black 6.5" piranha lighted clamps
 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





- 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[™] 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





Model	Description
CA096	CELLTRON™ Advantage desktop rapid battery charger
 For use with the voltage of 7.2VI 	e CELLTRON™ Advantage battery pack CA090 with rated DC
 Rapid charge to 80% of rated voltage in 1 to 2.5 hours, trickle charge the remaining voltage 	
 Automatically e 	nd charging with negative delta voltage greater than 50mVDC

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: 100-24	0V 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
– Weight: 1 lb	

- 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 An	mp and Volt meter	
 40A DC/AC rang .90" (23mm) di One touch zero 400V DC/AC rang Requires 2 AA b 	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
 Customized ir 	serts fitted for the CELLTRON™ handheld testers and accessories

Backpack only, tester and accessories sold separately