



Advanced Test Equipment Corp.

www.atecorp.com 800-404-ATEC (2832)



Franklin Electric GRID SOLUTIONS

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 Nickle Cadmium (Ni-Cd) batteries, the CELLTRON™ Advantage Digital can measure battery voltage down to one (1) volt as well as measure inter-cell and terminal connection resistance.



ACCURATE
CONDUCTANCE TESTING



WIRELESS
COMMUNICATION



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).

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 25 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.

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

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

APPLICATIONS



DATA CENTERS



CRITICAL POWER



POWER UTILITIES



TELECOMM



TRANSPORTATION



SPECIFICATIONS

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

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, 2300mAh, NiMH
- Internal swappable battery & charger

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

Data Transfer

- Wifi
- USB 2.0 Flash Drive (Type A)
- USB 2.0 PC Interface (Type B)
- Infra-red
- Half-duplex IrDA protocol for optional printer

Environmental Operating Range

- 0 to +104°F (0 to +40°C)
- 95% relative humidity
- Non-condensing

Storage Temperature

- -4 to 180°F (-20 to 82°C)

Over Voltage Protection

- Auto-reset disconnect
- Reverse polarity protected

Housing Material

- Acid-resistant ABS plastic
- Santoprene™ overmold

Tester Dimensions

- 11in x 4in x 3in
(279mm x 105mm x 80mm)

Tester Weight

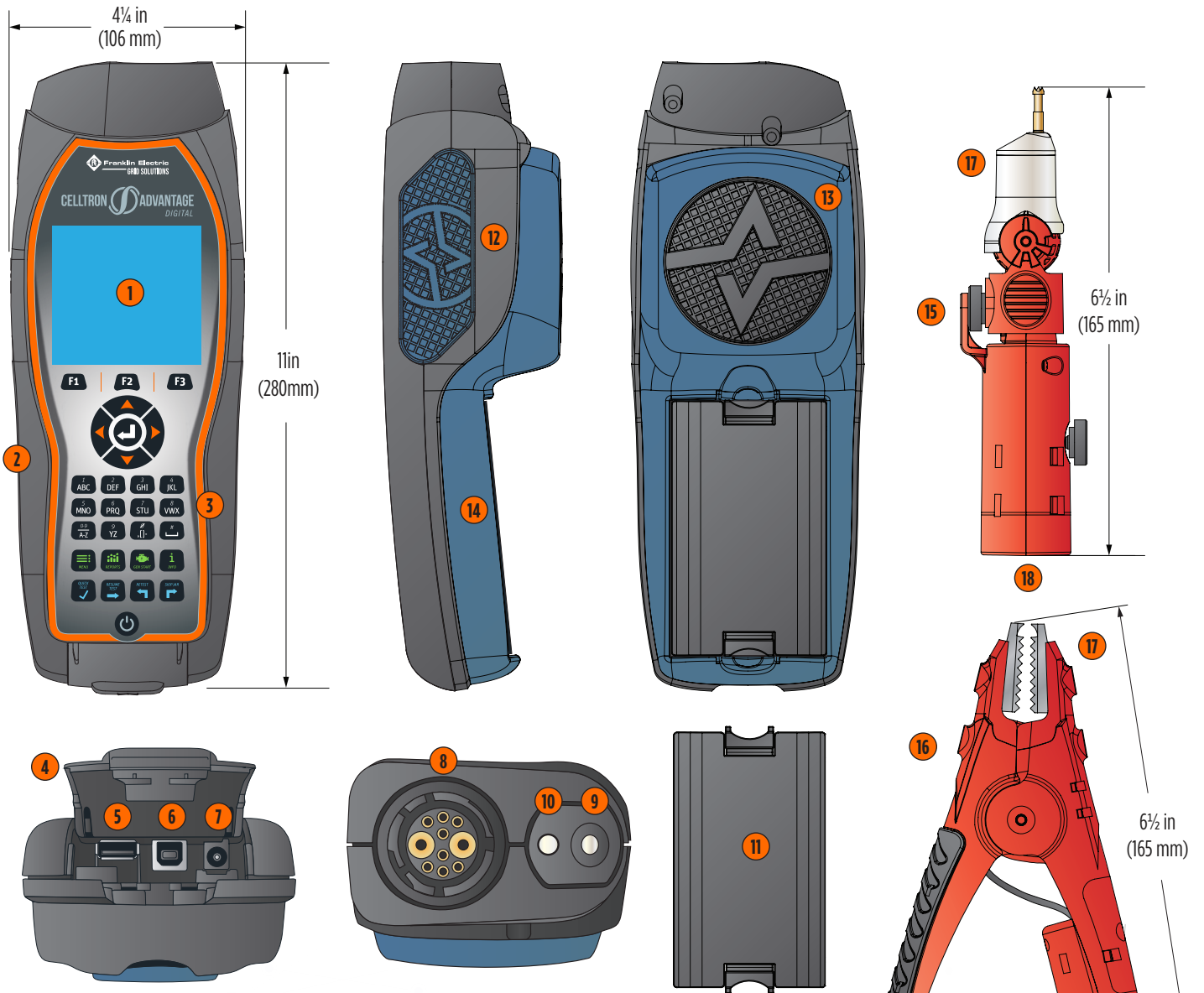
- 2.6 lb (1 Kg)

Languages

- English
- Spanish
- German
- Polish
- Portuguese
- Dutch
- Russian
- French



COMPONENTS & DIMENSIONS



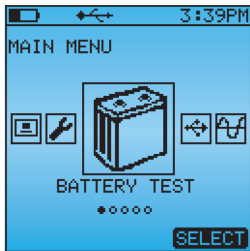
Components

- ① LCD display
- ② Tester body
- ③ Glove-compatible key pad
- ④ Port access door
- ⑤ USB A port (data storage/transfer)
- ⑥ USB B port (PC connection)
- ⑦ On-board re-charging port
- ⑧ Probe/clamp cable port
- ⑨ Temperature sensor
- ⑩ Infrared printer LED
- ⑪ Rechargeable battery pack
- ⑫ Side vent
- ⑬ Rear vent
- ⑭ Rubber handle grip
- ⑮ Probe testing interface
- ⑯ Clamp testing interface
- ⑰ Integrated light
- ⑱ Interchangeable cable port



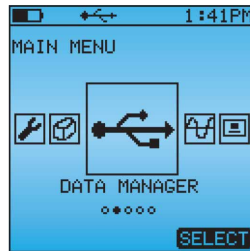
SOFTWARE, APPLICATIONS & TOOLS

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



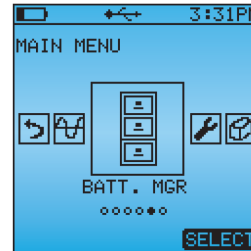
BATTERY TEST

Standard, conductance-based battery testing.



DATA MANAGER

Upload, download, and delete testing data.



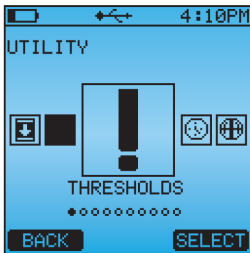
BATTERY MANAGER

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



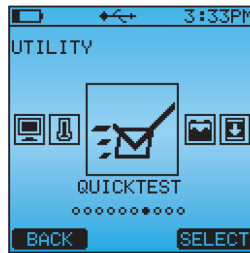
REPORTS

Generate reports for individual battery string results.



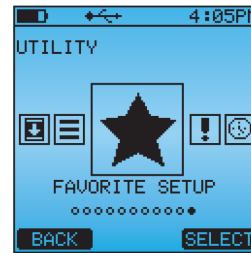
THRESHOLDS

Set tester thresholds for voltage, conductance, and temperature.



QUICK TEST

Start a test on a single cell or monoblock without setting up a site.



FAVORITE SETUP

Set up favorites for quick access.



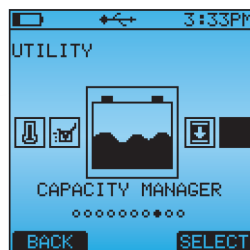
AUTOSTART

Set the tester to activate a test process on contact.



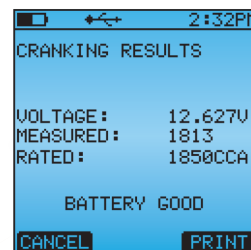
SITE TRENDING

Effective trend analysis including test comparisons in one screen.



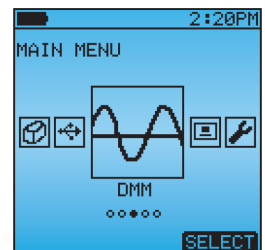
CAPACITY MANAGER

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

Included with Tester

- Belt loop
- Battery pack
- Universal charger
- Backpack
- UNITE™ web-based software access
- 1 meter USB cable



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

Included in the Kit

- CELLTRON™ Advantage Digital
- Belt loop
- Battery pack (2)
- Universal charger
- 1 meter USB cable
- Backpack
- UNITE™ web-based software access
- 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	Description
CADD-5200 KIT	Enhanced CELLTRON™ Advantage Digital Battery Testing Kit

Included in the Kit

- CELLTRON™ Advantage Digital
- Belt loop
- Battery pack (2)
- Universal charger
- 1 meter USB cable
- Backpack
- UNITE™ web-based software access
- 4' interchangeable cable
- Probe set
- Probe tip replacements
- Clamp set
- Waffle replacements



ACCESSORIES & REPLACEMENT PARTS

RED LIGHTED PROBE



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
- Incorporates a quick connect/disconnect radio frequency BNC connector for easy removal.
- Replaceable gold-plated over Duralloy® dual probe tips

BLACK LIGHTED PROBE



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
- Incorporates a quick connect/disconnect radio frequency BNC connector for easy removal.
- Replaceable gold-plated over Duralloy® dual probe tips

RED & BLACK LIGHTED PROBES



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
- Incorporates a quick connect/disconnect radio frequency BNC connector for easy removal.
- Replaceable gold-plated over Duralloy® dual probe tips

REPLACEMENT 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



RED LIGHTED PIRANHA CLAMP



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
- Incorporates a quick connect/disconnect radio frequency BNC connector for easy removal

BLACK LIGHTED PIRANHA CLAMP



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
- Incorporates a quick connect/disconnect radio frequency BNC connector for easy removal

RED & BLACK LIGHTED PIRANHA CLAMPS



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
- Incorporates a quick connect/disconnect radio frequency BNC connector for easy removal

INTERCHANGEABLE CABLES



Model	Description
CA026	4' interchangeable CELLTRON Advantage cable

- Flex strain relief and spread of 24" with "Y" junction
- Incorporates a quick connect/disconnect radio frequency BNC connector for easy probe or clamp removal
- Compatible with CA092 clamps and CA093 probes



30" PROBE EXTENDERS



Model	Description
CA034	30" probe extenders

- Soft rubber handles
- Utilized in hard-to-reach areas such as UPS cabinets
- Weight: 2 lbs

RECHARGEABLE BATTERY PACK



Model	Description
CA090	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

DESKTOP RAPID BATTERY CHARGER



Model	Description
CA096	CELLTRON™ Advantage desktop rapid battery charger

- For use with the CELLTRON™ Advantage battery pack CA090 with rated voltage of 7.2VDC
- Rapid charge to 80% of rated voltage in 1 to 2.5 hours, trickle charge the remaining voltage
- Automatically end 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

UNIVERSAL IN-UNIT BATTERY CHARGER



Model	Description
CA091	CELLTRON™ Advantage universal in-unit battery charger

- Input: 100-240V 60Hz/50Hz 14W
- Output: 7.2V, 700mA 5.04VA



39" USB A/B CABLE



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

- For USB 2.0 communication between a PC and the CELLTRON Advantage

4GB USB FLASH DRIVE



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

THERMAL IR / RS232 PRINTER



Model	Description
CA087	Thermal IR / RS232 printer for use with CELLTRON Advantage

- Power adapter and 4 NMH rechargeable AA batteries included
- Weight: 1 lb
- Dimensions: 2.25"H X 75"L X 3.25"W

PRINTER POWER ADAPTER / CHARGER



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

THERMAL PRINTER PAPER



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



DIGITAL AMP CLAMP / METER



Model	Description
C040	Multidigital Amp and Volt meter

- 40A DC/AC range
- .90" (23mm) diameter jaw
- One touch zero button
- 400V DC/AC range
- Requires 2 AA batteries
- 600V overload protection for Ohm measurement
- Weight: 1.5 lbs
- Dimensions 10"L X 2"H X 4"W

CUSTOM BACKPACK



Model	Description
CA100	Custom backpack for CELLTRON™ battery testers

- Customized inserts fitted for the CELLTRON™ handheld testers and accessories
- Backpack only, tester and accessories sold separately