



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 (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).

APPLICATIONS



DATA CENTERS



CRITICAL POWER



POWER UTILITIES



TELECOM



TRANSPORTATION

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.



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 | ⑪ Probe/clamp cable port | ⑲ Probe testing interface |
| ② Tester body | ⑫ Temperature sensor | ⑳ Clamp testing interface |
| ③ Glove-compatible key pad | ⑬ Infrared printer LED | ㉑ Integrated light |
| ④ Port access door | ⑭ Rechargeable battery pack | ㉒ Interchangeable cable port |
| ⑤ USB A port (data storage/transfer) | ⑮ Side vent | |
| ⑥ USB B port (PC connection) | ⑯ Rear vent | |
| ⑦ On-board re-charging port | ⑰ Rubber handle grip | |

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.