

CAUTION: Do not use the Celltron ULTRA to test the entire string at once. Test only individual jars/batteries.

Refer to the Instruction Manual for safety guidelines and complete instructions.

Battery (Test) Setup

1. Make sure the clamps/probes cable is connected to the analyzer and the memory card is inserted.
2. Press and hold the **POWER** button.
3. Select BATTERY SETUP in the Main menu, and press the **ENTER** key.
4. For a new test, select the NEW and press **ENTER**.
5. To overwrite the string name, press **ENTER**. Press the **BACK** key to delete letters. Create a new string name by using the alphanumeric keypad. When finished, press **ENTER**.
6. To change test settings, use the **ARROW** keys to scroll to parameters in the String Info list and press **ENTER** to select.

IMPORTANT: Be sure to count the number of jars/batteries you are testing in the string and enter the correct number in JARS PER STRING.

7. Testing with or without a reference value:

To test with a reference value:

Option 1: Use a reference value from the Celltron ULTRA database:

- a. Select BATTERY MANAGER.
- b. Select SELECT MANUFACTURE.
- c. Scroll to a manufacturer name and press **ENTER**.
- d. Select a model.

Option 2: Have the Celltron ULTRA calculate a value based on a percentage of batteries with the highest conductance value.

- a. Select BATTERY MANAGER.
- b. Select REFERENCE DEVELOPER.

- c. Press **ENTER** to accept 30%, or use the **ARROW** keys or keypad to select a percentage. (The REFERENCE parameter in the String Info list displays *****U.)

Option 3: Use your own reference value:

- a. Select REFERENCE.
- b. Use the **ARROW** keys or keypad to select a percentage and press **ENTER**.

To test without a reference value:

- a. Select REFERENCE.
- b. Use the **ARROW** keys or keypad to select 0, and press **ENTER**. (The REFERENCE parameter in the String Info list displays -----U.)

8. Select SAVE AND TEST to begin testing or SAVE AND CONTINUE to create or update a file/string.

Reports

String Summary: Select a file/string to view the average percentage of the conductance value, average mhos/siemens, total jars, low and high jar. Press the **PRINT** key to print the summary and all jar data in the string in tabular form.

Jar Data: Select a file/string to view data for individual jars. Press the **PRINT** key to print the displayed results. (The analyzer will print results only for the selected jar.)

You can retest any jar displayed by pressing the **RETEST** key.

Transfer: To transfer the test data to your PC, close all programs and launch inFORM™. Select a file/string in the analyzer's TRANSFER menu. Aim the analyzer's IR transmitter at the IR receiver connected to your PC, and press **ENTER**.

Version: Displays the software version.

Test

Press **ENTER** to test after you connect the cables to the jar posts. The analyzer will test using the parameters file last used or saved. If there is no setup in memory, the analyzer will use the default parameters.

Utilities Setup

Main Menu: Press **Main Menu** to return to main screen.

Clock: Sets the date and time.

Display: Adjusts the backlight time (to conserve the NiMH battery) and the screen contrast.

Language: Sets the languages used in menu and printed reports (English, French, Spanish, Portuguese, German, Italian and Russian).

Temperature: Sets Celsius or Fahrenheit as the unit of measure.

Mode: Sets a test start mode: Auto Start (default) or Manual Start

Warning: Enables you to select the percentage of the reference value below which a jar and string must fall to generate a warning or failure notice.

Update: Enables you to update software when new versions are released.

Dmm (Digital Multimeter)

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DC Volts: Measures from 0 to 25 Vdc in real time.

AC Volts: Measures from 0 to 10 Vac in real time.

Scope: Measures voltage trace in real time with a range of 0 to 25 Vdc.

Current: Estimates AC ripple current through the jar.

Battery Manager

Stores major battery manufacturers, model numbers, and established reference values.

Enables you to change or add manufacturers, battery models, and reference values.

Printing test data

Select **REPORTS > STRING SUMMARY** or **JAR DATA**. Select a file/string, and press the **PRINT** key.

See the **Reports** section or instruction manual for more information.

Downloading test data

Requires Midtronics software application. Select **REPORTS > TRANSFER**. Select a file/string and press the **ENTER** key.

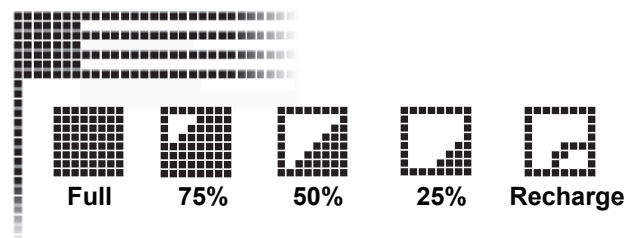
See the **Reports** section or instruction manual for more information.

Reverse polarity protection

To protect its circuitry, the analyzer will not turn on—and display or sound a warning—if the clamps/probes are connected in reverse polarity (red to negative, black to positive).

Charge level indicator: NiMH battery pack

A small box in the upper left corner of the display shows the charge level of the analyzer's battery pack.



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