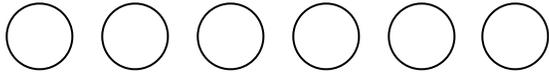


The New Model of Popular LCR-meter Enters the Stage of Implementation of the LCR-Reader-R2 Prototype

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Siborg Systems Inc. starts implementation of a new model in the LCR-Reader line, the R2. This LCR-meter offers a 0.1% basic accuracy and wide measurement ranges and a record high test frequency of 300 kHz.

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After one year since the release of their multi-functional [Digital Multimeter LCR-Reader-MPA](#) Siborg Systems Inc. starts implementation of a new model of their best selling LCR-meter, the LCR-Reader-R1. The new model, the LCR-Reader-R2, includes a basic accuracy of 0.1%, and features a record high 300 kHz test frequency. The new device is going to have a possibility of using 100 Ohm and 1 kOhm signal source impedance allowing a better in-circuit testing.



A New Model of LCR-Reader With a Record High 300 kHz Test Frequency LCR-meter Enters the Prototype Implementation Stage.

[LCR-Reader-R1](#) and [LCR-Reader-MPA](#) are a tried and tested design; the combined lightweight multimeter and sharp, gold-plated tweezers make it easy to grasp and hold small components, either mounted or loose. The device will automatically determine the type of component and best test range before measuring with a 0.1% basic accuracy. The MPA will automatically select the test mode (L, C, or R) and best test frequency before measuring both main impedance value and any secondary values such as the ESR. The device only weighs 1 oz. and is small enough to carry in a bag or pocket for on-field work. The bright backlit LCD allows users to read the device in less-than-ideal environments. The MPA is easily navigated using the 4 way-joystick like button. users can change basic test modes from the main display by pressing the button directionally; pressing down will enter the menus for more features and settings.

The new model [LCR-Reader-R2](#) combines advantages of [LCR-Reader-MP](#) and [LCR-Reader-MPA](#) due to the ability of switching the test signal source resistance from 100 Ohms as in MPA to 1 kOhm as in MP. The latter strongly increases stability of measurements and works much better for in-circuit measurements. On the other hand, lower source impedance effectively increases the actual test signal applied to the component under test thus reducing the signal-to-noise ratio in some cases.

Another important feature of the device is its ability of using 300 kHz test frequency due to the more advanced CPU used. The higher frequency may allow to better measure sub 10 nH inductors.

The [LCR-Reader-MPA](#) offers users a wide range of test features and modes, making it the ultimate testing device. These features include, LED/diode tests, short/continuity testing, AC/DC voltage measurements, frequency measurements, pulse counting, duty cycle and more. One of the main features of the device is the ability to test using a 100 kHz test frequency. This allows for a .01 pF resolution for capacitance measurements and 10 nH for inductance.

An oscilloscope mode is also available on the device; a feature which Siborg hasn't included since [Smart Tweezers ST-1](#). The analog graph display is best used for testing various voltage waveforms on active circuit boards up to 100 kHz. The oscilloscope mode is especially useful when used with the [LCR-Reader Kelvin Probe Connector](#) set which grants the ability to test waveforms at various nodes on a PCB and extends the tweezers' spread to test large components.

Using 'automatic test frequency reduction', the MPA can test Large and Super Large Capacitances up to 1,000 mF when the device evaluates capacitance using DC measurements. The device is able to select the best frequency from 100, 120 Hz, 1, 10, 20, 30, 40, 50, 60, 75 and 100 kHz. Electrolytic capacitors measured at 120 Hertz with ESR of 100 kHz according to the regular electrolytic capacitor test conditions.

Features include:

- Fully automatic and manual LCR, ESR, LED/Diode measurements

- 0.1% Basic accuracy

- Automatic and manual Test Frequency, including 100, 120 Hz, 1, 10, 20, 30, 40, 50, 60, 75 and 100 kHz

- AC/DC voltage measurements up to 15 V

- AC/DC Current measurements

- Easy Open/Short calibration and offset removal for better measurement accuracy

- Two test signal levels: Automatic Test Signal Reduction to 0.1 V for in-circuit measurements

- Oscilloscope Transient Voltage up to 100 kHz

- Signal Generator mode with Sine wave signals

- Parasitic offset removal using easy Short/Open Calibration

- Automatic test signal level adjustment for in-circuit measurements

- Measures components to a 0201 size (0.3 mm)

- Displays active and reactive impedance components

Li-Ion battery and micro-USB charging port

2 oz. weight

Backlit LCD display

Gold-plated test leads

Included with every device is a pre-installed set of gold-plated tips, NIST traceable calibration certificate, Offset Calibration Board, and hard-shelled carrying case. Available accessories include spare ergonomic bent-tips, spare battery and the LCR-Reader Kelvin Probe Connector.

The [LCR-Reader-MPA](#) is available on LCR-Reader Store and Amazon sales channels.

Siborg also offers a wide range of test devices, including LCR-Reader and [Smart Tweezers](#) tweezer-based multimeters. A Bluetooth enabled version of [Smart Tweezers](#) and [LCR-Reader-MPA](#) are also available; these models allow users to send and receive test data from PC, Android and iOS.
