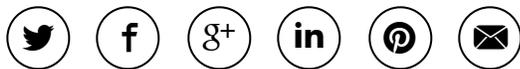


Monday, June 3, 2019



Next Generation of LCR-Reader Multifunctional Multimeter: LCR-Reader-MPA

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Siborg Systems Inc. is about to release a new model in the LCR-Reader-MP, MPA line. This multifunction tester offers a record high basic accuracy of 0.1% and an unsurpassed set of test functions.

WATERLOO, ONTARIO (PRWEB) APRIL 08, 2019

After 1 year since release Siborg Systems Inc. is updating their most advanced multifunctional tweezer-meter [LCR-Reader-MP](#). The new model, the LCR-Reader-MPA, has nearly the same record high basic accuracy of 0.1%, and unrivaled features such as AC/DC voltage/current measurement, oscilloscope mode, Diode/LED tests, signal generator, frequency meter, super large capacitance testing, 100 kHz test frequency, continuity/open testing, and more.

The design was changed radically. The new model has significantly smaller size and weight of about 30 grams that is almost 1.5 times lighter than the original model. A new design of the tweezer handles, and gold-plated test leads provides a much more stable alignment and contact with measured components. The screen size was reduced slightly but still is almost double of the size of that for LCR-Reader/[Smart Tweezers](#). The new screen provides character size comfortable for viewing. Jog-dial button is replaced with a 4-way joystick drastically easing navigation. Three test signal levels are implemented: 0.1, 0.5 and 1 Vrms, the latter is very important for accurate measurement of ceramic capacitors. Slide switch for voltage measurements is eliminated and replaced with an automatic relay switch. LED test voltage is increased to 3.2 Volts. Signal source resistance is reduced to 100 Ohms allowing a better test of smaller resistances and inductances and larger capacitances.



The Ultimate PCB Debugging Tool

The recently revised LCR-Reader-MPA will be released in the spring of 2019.

LCR-Reader-MPA easily grasps and holds 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, Q or D. The device weighs slightly more than 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 **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 and duty cycle measurements, pulse counting, signal generator 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 0.001 pF resolution for capacitance and 0.1 nH for inductance measurements.

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 voltage waveforms on active circuit boards with frequency of 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 virtually making the device a low frequency probe station.

LCR-Reader-MPA can test Large and Super Large Capacitances up to 640 mF. The device can select the best frequency from 100, 120 Hz, 1, 10, 20, 30, 40, 50, 60, 75 and 100 kHz. Electrolytic capacitors are measured at 120 Hertz while ESR at 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

- Test signal levels: 0.1, 0.5 and 1.0 Vrms

- Automatic Test Signal Reduction to 0.1 V for in-circuit measurements

- Oscilloscope Transient Voltage up to 100 kHz

- Signal Generator with Sine wave up to 100 kHz

- Handles components to a 0201 size (0.3 mm)

- Displays active and reactive impedance components

- Li-Ion battery and micro-USB charging port

- 1 oz. weight

- Backlit LCD display

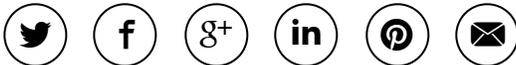
- Gold-plated test leads

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** will be available in the Spring of 2019. The device will be available on **LCR-Reader Store and Amazon** sales channels in USA, Canada and UK.

Siborg also offers a wide range of test devices, including LCR-Reader and **Smart Tweezers multimeters** as well as **Smart LED Test Tweezers**. A Bluetooth enabled version of Smart Tweezers is also available; this model allows users to send and receive test data from PC, Android and iOS.

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[LCR-Reader-MPA, the Leader of PCB Debugging](#)



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