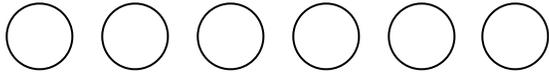


All-New Version of Popular Digital Multimeter LCR-Reader-MPA Debuts at Nepcon 2019 to Encouraging Results

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Siborg Systems Inc. gave the first look at Nepcon 2019 in South Korea; Audiences were very receptive of the new model of All-in-One LCR-Reader-MPA.

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Canadian company Siborg Systems Inc. recently showed their newest device, the LCR-Reader-MPA All-in-One Digital Multimeter at Electronic Manufacturing (Nepcon) Korea in May. The audience showed great interest in the devices' abilities to test with efficiency and high 0.1% basic accuracy. Siborg has previously debuted the [LCR-Reader](#) in 2014 and the LCR-Reader-MP in 2017, both with favorable interest.

“This was the first presentation of the new LCR-Reader-MPA. EMK Nepcon has been proven to be a great place for us to debut devices in the past and this year was no different. We heard a lot of feedback from people, mostly



interested in the wide range of applications and high accuracy of the MPA,” says Michael Obrecht, the Director at Siborg.

Electronic Manufacturing Korea (EMK) has become a globally renowned exhibition for domestic and foreign buyers and is Korea’s largest electronics manufacturing exhibition.

LCR-Reader-MPA is different from traditional multimeters that require set-up and can be cumbersome to use. MPA features gold-plated tweezers integrated with a lightweight multimeter that can automatically determine the test mode and best parameters to use for the component. All measurements are done with 0.1% basic accuracy and are instantly made available, including any secondary values (ESR, Q, or D) on the display. The ability to test unlabelled and unknown components with no set-up is exceptionally useful for sorting components or tasks that are time sensitive, such as on assembly lines.

The MPA offers more features and functions than any other tweezer-based multimeter. In addition to automatic and manual LCR and ESR measurements, the MPA offers test functions such as: AC/DC voltage measurements, frequency measurements, LED/diode testing, short/continuity testing, signal generator, an oscilloscope mode and more.

The device has a wide range of test frequencies, including 100kHz. This test frequency allows the device for a 0.1 nH resolution for inductance measurements and 0.001 pF resolution for capacitance.

Some of the main features on the device are the wide range of test frequencies, including 100 kHz. This test frequency allows the device for a 0.1 nH resolution for inductance measurements and 0.001 pF resolution for capacitance. The device can test Large and Super Large Capacitances up to 1,000 mF by selecting from 100, 120 Hz, 1, 10, 20, 30, 40, 50, 60, 75 and 100 kHz test frequencies. Electrolytic capacitors are measured at 120 Hertz while ESR at 100 kHz according to regular electrolytic capacitor test conditions.

The oscilloscope mode, which hasn't been included on one of Siborg’s devices since the first model of Smart Tweezers, allows users to test voltage waveforms on active circuit boards with frequencies up to 100 kHz. This mode is especially useful while using the LCR-Reader Kelvin Probe Connector. The 5 piece set turns any LCR-Reader, MPA, MP or Smart Tweezers device into a low frequency probe station and extends the reach of the device to measure larger components than the tweezers’ gap would allow.

The obvious differences between the new LCR-Reader-MPA and the MP is the size of the device. MPA is roughly 1.5 times lighter than the original model at 30 grams. The display was reduced slightly but provides better readability, including in low-light conditions. The jog-wheel navigation was replaced with a 4-way joystick navigational button that also allows users to change basic test functions from the main screen. Three test signal levels were implemented: 0.1, 0.5, and 1.0 Vrms; the ability to test at 1 Vrms is very important to accurately measure ceramic capacitors. The slide switch was replaced with an automatic relay switch. LED testing was increased to 3.2 Volts and the signal source resistance was reduced to 100 Ohms allowing for better test results while measuring smaller resistances and larger capacitances.

Features on LCR-Reader-MPA:

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

0.1% Basic accuracy

Automatic and manual test frequencies; 100, 120 Hz, 1, 10, 20, 30, 40, 50, 60, 75, and 100 kHz

Easy Open/Short calibration and offset removal

Test signal levels of 0.1, 0.5 and 1 Vrms

Oscilloscope Transient Voltage up to 100 kHz

Signal Generator with Sine wave up to 100 kHz

AC/DC voltage measurements up to 15V

AC/DC Current measurements

Displays active and reactive impedance components

LCR-Reader-MPA from Siborg Systems Inc. is a powerful yet compact multi tester with high accuracy and wide range of test features

LCR-Reader-MPA was well received at EMK Nepcon in Korea in May. New partnership have been established with companies from Korea and ASEAN countries. Siborg has previously debuted two more devices at exhibitions, the LCR-Reader in 2014 and LCR-Reader-MP in 2017.

Li-Ion battery and micro-USB charging port
Handles components to a 0201 size (0.3mm)
1 oz. Weight
Back lit LCD display
Gold-plated test leads

Every LCR-Reader-MPA comes with an NIST traceable calibration certificate, gold-plated tweezer tips, Offset Calibration Board, and hard shelled carrying case. Available accessories include spare ergonomic bent-tips, LCR-Reader Kelvin Probe Connectors, spare batteries and more.

LCR-Reader-MPA will be available for sale in Summer of 2019 through Siborg's online store, the [LCR-Reader Store](#), and Amazon sales channels in USA, Canada and UK.
