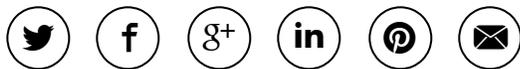


Monday, May 28, 2018



# Siborg Systems Inc. Featured in Manufacturing Today; Promotional Sale on LCR-Reader Devices

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### The Ultimate PCB Debugging Tool: LCR Reader MP Introduction



Interview outlines the future of Siborg's devices and software; new LCR-Reader model and updated semiconductor process and device simulator

**WATERLOO, ONTARIO (PRWEB) MAY 27, 2018**

In the newest volume of Manufacturing Today, Siborg Systems Inc. interviewed with Kat Zeman about the future of Siborg, with focus on the LCR-Reader and their software division. Michael Obrecht, the director

of Siborg, gave insight into a new LCR-Reader model that is being released in 2018 and mentioned how the company is refocusing on their MicroTec software.

**LCR-Reader** is a handheld LCR- and ESR- meter with a 0.5% basic accuracy and high-speed while testing components. The lightweight device quickly determines the type of component and best test parameters before measuring. All measurement values, including main impedance value, secondary values such as the ESR, component type and test frequency are instantly displayed on the bright OLED screen in the device. The LCR-Reader comes with an NIST traceable calibration certificate, and gold-plated tweezer tips that can grasp any component, including those already mounted on crowded PCBs.

Michael Obrecht speaks of a new model that will be available in the summer of 2018 as a refined version of the **LCR-Reader**; "It will be a much more powerful multimeter, less bulky and more fine tuned. We have improved on the LCR-Reader's appearance, performance and functionality." Obrecht goes on to mention that the newer model will have a higher price than the recently released **LCR-Reader-MP**, but will have better functionality, including a three-volt LED test, and one-volt signal component testing for ceramic capacitors. The device is also boasting a lower signal-to-noise ratio which improves the accuracy while testing lower value capacitance and inductances.

As for Siborg's software division, the article outlines that Siborg is starting to refocus on the software side of things, including some new ideas for very fast software tools for thermal design. "We want to enhance the functionality of MicroTec including the thermal analysis built into the semiconductor device simulator. It's sold to a lot of educational markets and to semiconductor manufacturers."

**MicroTec** is an easy-to-use semiconductor process and device simulator that is computationally extensive for simulations for power semiconductor devices with large dimensions or solar cells. It is also particularly useful for devices built with SiC and other wide band gap material. The software was used by more than 100 universities in 25 countries, and more than 35 companies worldwide. MicroTec's staying power comes from the ability to run on a few megabytes of RAM and by being a faster and more robust program than other similar programs.

MicroTec includes 3 main software tools; SiDif for 2-D simulation of implantation, diffusion and oxidation; SemSim for steady-state 2-D simulation and SibGraf for 1-D and 2-D graphics.

Obrecht mentions that the ability to quickly customize the MicroTec software is a main selling point, especially for smaller companies "Maybe our software can do 90% of what they want. Well, we can quickly do modification to the software and that's very important to them. Plus, we offer 24/7 support, which is much higher than competitors. We serve pretty much anybody that does work on electronic circuit boards; it's a very wide community."

Siborg is offering a sale on devices in their online store, including LCR-Reader, LCR-Reader-MP and Smart Tweezers models. The **Smart Tweezers** ST5S-BT2 is a Bluetooth enabled model that can send and receive data from a virtual connection. When connected to receiver software, the Bluetooth device is able



LCR-Reader, LCR-Reader-MP, Smart Tweezers and Kelvin Probe Connector from Siborg Systems Inc.

The new LCR-Reader model will be a much more powerful multimeter, less bulky and more fine tuned. We have improved on the LCR-Reader's appearance, performance and functionality." says Michael Obrecht, director at Siborg Systems Inc.

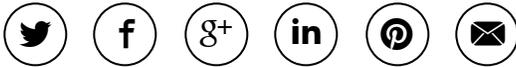
to instantly send a chain of measurement values, which can be save for later processing. The ability to automatically remotely record measurement values is exceptionally helpful for incoming quality control.

Siborg also offers task kits, which include a device and accessories for a discounted price. The LCR-Reader Online Store also has complimentary tools for SMT, including the [LCR-Reader/Smart Tweezers Kelvin Probe Connector](#) the turns any [LCR-Reader or Smart Tweezers](#) model into a full probe station. The kit comes with 5 different attachments (2 sizes of pin-probes, spade connector, alligator clips, and multimeter jack plugs) and allows the device to measure components that wouldn't normally fit between the tweezers' probes. When used with the Oscilloscope mode on LCR-Reader-MP, the Kelvin Probe Connector can measure wave-forms at various nodes on a PCB.

Visit the [LCR-Reader Store](#) to view the sale and read the article in Volume 18, Issue 3 of Manufacturing Today.

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## Media

[LCR-Reader-MP LCR- and ESR-meter with 0.1% basic accuracy and extensive features](#)  
[LCR-Reader-MP LCR- and ESR-meter](#)



LCR-Reader MP Manual  
Main features, Settings, Accuracy Specifications, etc.



Smart Tweezers ST5S-BT adds Bluetooth functionality to Smart Tweezers



LCR-Reader Professional Plus  
Now comes with Kelvin Probe Connector, NIST Traceable Calibration Certificate,  
Spare Bent Tweezer Probes and Extra Battery



LED Tweezers from Siborg Systems Inc.  
Test LEDs, switches, fuses, cables and components with just a touch



LCR-Reader Manual  
Manual for LCR-Reader LCR-meter



Smart Tweezers LCR-meter ST5S Manual



MicroTec Manual  
Manual for Semiconductor Process and Device Simulator

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