Smart Tweezers LCR-Reader; a Simplified Method of Evaluating Surface Mount Technology and Troubleshooting PCBs

Siborg Systems Inc.'s Smart Tweezers LCR-Reader is a unique device that makes testing and troubleshooting PCBs and SMT simple and more time efficient.

WATERLOO, CANADA, August 20, 2014 /EINPresswire.com/ -- Siborg Systems Inc.'s Smart Tweezers line of handheld digital LCR-meters began a decade ago, and the line has been expanded with the LCR-Reader, the consumer's choice for LCR-meters. The unique design of Smart Tweezers and LCR-Reader have been a proven success for all applications, from manufacturing to repair and maintenance of PCBs and electronics with Surface Mount Technology (SMT).

Testing and troubleshooting SMT using conventional bench-type testers can be cumbersome and time consuming; needing both hands to work the wire leads, setting-up between measurements, and keeping track of the components and values can be an issue

while testing the small components. LCR-Reader from Siborg Systems Inc. are the solution to these problems.

Smart Tweezers is a device which combines a set of gold-plated tweezers with a small but powerful LCR-meter in a 1 oz. device that is operable with just one hand. Instead of using wire leads, Smart Tweezers are able to grasp loose or mounted components between its tines. When in contact, Smart Tweezers will automatically determine the type of component, there is no stopping to set-up between evaluations. Smart Tweezers and LCR-Reader will automatically determine the type of component and the best test signal and frequency; it then measures for Inductance (L), Resistance (R), or Capacitance (C), while also measuring for secondary values such as the Equivalent Series Resistance (ESR). All evaluation values are instantly displayed on the small display embedded in the device, including the main impedance value, ESR value, test signal, and component type.

LCR-Reader is the consumer's choice for LCR-meters. This device is the budget model in the Smart Tweezers line, retailing under $200, about half of Smart Tweezers. This is the best model for non-professionals and hobbyists looking for a device like Smart Tweezers but without the high price. This device differs from Smart Tweezers by omitting some features, including; component sorting, variable

tolerances and test signals, and continuity and diode testing. A one button navigation allows users to cycle through measurement modes (Automatic, Inductance, Resistance, Capacitance, ESR).

Features on LCR-Reader include:

-1 % Basic accuracy
-Fully automatic L, C, R and ESR measurements
-Best range selection
-Fixed 0.5 Vrms test signal
-1 oz. weight
-Li-Ion battery rechargeable via micro-USB

Siborg has spent the past year making sure that Smart Tweezers and LCR-Reader are available worldwide, by expanding their distribution channel to include Canada, United States, Russia, Brazil, China, Japan, India, Indonesia, Malaysia and United Kingdom. By having distributors on all corners of the globe, customers are able to receive their products without having to wait for shipping or customs from Canada. It also offers a closer-to-home location for sending devices back if they need maintenance or calibration. Siborg has also launched multiple websites for customers, including regional websites in Canada, US, China, Russia and India. The Smart Tweezers Archive was created for users to see the evaluation of Smart Tweezers through major milestone news. The Smart Tweezers Online Catalogue is available to customers who need replacement parts for their devices, including screens, houses, batteries, tips, etc. This catalogue features parts for all models, from the ST-1 to the LCR-Reader.

Smart Tweezers and LCR-Reader are a unique solution for testing and troubleshooting SMT and PCBs by offering a more time efficient alternative to conventional bench type testers. Visit the Smart Tweezers Blog for all the latest news about Smart Tweezers and LCR-meter.

About Siborg Systems Inc.

Established in 1994, Siborg Systems Inc. is a source of engineering software and hardware tools for the semiconductor and electronics industry. Located in the city of Waterloo, Ontario, Canada, it enjoys being a part of the local world renowned high-tech community.

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