

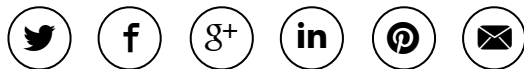


Wednesday, September 21, 2016



Siborg Systems Inc Finalizes Universal Calibration Jig for All Models of Smart Tweezers as Well as LCR-Reader

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Siborg Systems Inc teams-up with the Russian Academy of Sciences to finalize the design of a Calibration Jig. The Jig is suitable for all models of Smart Tweezers; providing distributors with a tool allowing to generate traceable Calibration Certificates.

WATERLOO, ONTARIO (PRWEB) JULY 31, 2015

Over the past year, Siborg Systems Inc, in Canada, and the Institute of Automation and Electrometry of the Russian Academy of Sciences have created a calibration jig for [Smart Tweezers LCR-meters](#). Siborg has sent the jig to Navair Technologies in Toronto, Ontario for NIST certification. Navair Technologies is one of Canada's top calibration facilities for NIST certification of measurement equipment.

The calibration jig cannot create NIST certificates, but is a helpful tool for periodic calibration of the [Smart Tweezers and LCR-Reader LCR-meters](#) as well as troubleshooting devices that have malfunctioned or failed.

The finalized jig uses a set of 14 known components of different types and within the Smart Tweezers measurements ranges. Unlike previously announced calibration jig that uses a 4-wire Kelvin probe connection to connect to the calibrated LCR-meter, it now uses a 2-wire connection to the device, thus allowing to calibrate all models of [Smart Tweezers](#) ever made. The measurement value is displayed on the Smart Tweezers' display which can then be compared to the known value of the component to determine the accuracy.



LCR-Reader from Siborg Systems Inc.

We have created both a 4-wire and 2-wire Verification Jigs for calibration of all models of Smart Tweezers as

“We have also decided to create two versions the Verification Jig for both 4-wire and 2-wire terminals. The jig is helpful in that it can be used for periodical traceable calibration if the jig is calibrated by a certified agency. The 4-wire jig is best for models after [Smart Tweezers](#) ST-3, including the LCR-Reader. The 2-wire jig can be used for models before and including the ST-3,” says Michael Obrecht, the Director of R&D at Siborg.

well as the LCR-Reader

Although a 4-wire connection minimizes noise generated by the connections of the PCB, it does not offer calibration to older Smart Tweezers models. The 2-wire terminal is best suited for Smart Tweezers ST-1, ST-2, and ST-3, where the 4-wire connection wasn't used in the handles.

Siborg sent along 4 randomly selected LCR-Readers to Navair for testing; the results sent back showed better than expected results for basic accuracy. LCR-Reader was claimed to have a 1% basic accuracy where as the measurement results showed closer to 0.5%.

[Smart Tweezers LCR-meter](#) and the recent LCR-Reader are popular LCR-meters that are designed for troubleshooting and testing Surface Mount Devices (SMD). Surface Mount Technology (SMT) is a primary technology for electronics. SMT components are very small and one can easily lose track of their values. LCR-Reader and other Smart Tweezers LCR-meter models are nearly pen-sized devices that quickly evaluate SMT Resistors, Capacitors and Inductors using only one hand. Currently they are recognized professional LCR-meters that automatically determine the component type and a proper range and signal frequency for the maximum accuracy.

All the latest news about Smart Tweezers and LCR-Readers are available on the [Smart Tweezers](#) and [LCR-Reader](#) Blogs.

About Siborg Systems Inc.

Established in 1994, Siborg Systems Inc is a source of engineering hardware and software 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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About the Institute of Automation and Electrometry

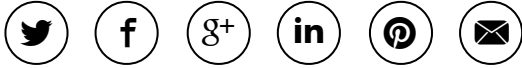
The Instiute was founded in 1957 among the first institutes of the Siberian Branch of the Russian Academy of Sciences. Research directions of the Institute comprise of optics and laser physics, fundamental and applied research and development of laser and optical technologies, system architecture, mathematical models and software for data processing and recognition systems, data analysis and control systems for complex dynamic process.

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Measurement Results



LCR-Reader Specifications Flier
Details about the LCR-Reader LCR-meter



Smart Tweezers ST-5S Specs
Features and Accuracy Specifications of Smart Tweezers ST-5S



Comparison of Smart Tweezers ST5, LCR-Reader LCR-1, Tesla BM591 and MIC-4090D
Comparison of measured values for through-hole components



140520 Calibration Certificate



140521 Calibration Certificate



140522 Calibration Certificate



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