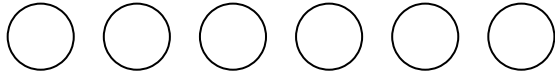


Siborg Is Now Offering Bluetooth Enabled Smart Tweezers ST5S-BT in Their Online Store

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Smart Tweezers ST5S-BT offers users a Bluetooth connection for real-time measurement recording



Smart Tweezers ST5S-BT adds Bluetooth functionality to Smart Tweezers

Smart Tweezers ST5S-BT connects to any communication software via Bluetooth and records measurement values in real-time

**WATERLOO, ONTARIO
(PRWEB) AUGUST 17, 2016**

Canadian Siborg Systems Inc. is now offering the new [Smart Tweezers ST5S-BT](#), available in their online store. The Bluetooth enabled model is based on the popular Smart Tweezers ST-5S, with the same features and 0.2% basic accuracy now with the ability to remotely record measurements

as they are performed.

The ability to test and record measurements automatically creates more efficiency when testing and troubleshooting PCBs. Users that require their measurements be documented no longer have to stop working to record measurement values, and previous measurements can be quickly referred to. The device connects to any communication software such as NI LabView® or Tera Term free software via Bluetooth USB receiver stick, as well as dedicated apps for iOS and Android based smart phones and tablets. Siborg is offering packages with or without the USB receiver stick in the LCR-Reader Store. The USB stick is required for the device to connect to a computer under Windows to be able to use LabView, but can be used without when connecting to an Android or iOS device.

Currently the USB receiver stick is the only way to use the Bluetooth connection under Windows due to incompatibility of the standard Windows Bluetooth drivers with Smart Tweezers ST5S-BT.

When measuring, [Smart Tweezers](#) sends the data that is present on the screen in a string of comma separated values.

Ex.:C1.398nF,R3.461kR,10kHz,0.5,S,,,,; - This string is broken down as: main impedance value and type 'C', secondary value and type, test frequency, test signal level, and measurement mode, and 4 reserved values. The photo attached shows the Tera Term software receiving data. Depending on the communication software used, the sent values can be saved into a file or database for future reference; if it is connected to NI LabView®, the program can store the values in a database for later processing.

The [Smart Tweezers line of handheld LCR- and ESR-meters](#) have become known for their high accuracy and quick measurements since their introduction in the early 2000's. The combination of a set of sharp gold-plated tweezers and a lightweight LCR and ESR-meter in a portable device has been proven a unique and efficient alternative to traditional multimeters. When the tweezers grasp a component, either mounted or loose, Smart Tweezers automatically determines the type of component and best test parameters before measuring with high accuracy; all measurement values, including any secondary values, component type, and parameters

used are instantly available on the built in display. The ability to test components without any set-up between measurements is especially effective for tasks that are time sensitive, such as those on a production line.

[Smart Tweezers ST-5S](#) offers users the highest basic accuracy and most features in the line of handheld LCR- and ESR-meters. This model has extensive menus for better customization for measurements, as well as features such as component sorting, diode/continuity/short testing, and variable tolerances. Other features include:

- Automatic and manual L, C, R, and ESR measurements
- Quality factor (Q), dissipation factor (D) and Impedance (Z) measurements
- Basic accuracy of 0.2%
- Variable tolerances of 1%, 5%, 10% and 20%
- Continuity/diode/short testing
- Extensive menus for customized measurements including offset subtraction, holds and nulls, etc.
- NIST traceable calibration certificate
- 4-way joystick navigation with the ability to change basic features from the home screen
- 1 oz. weight
- Li-Ion battery with micro-USB charging
- Bright OLED display

Siborg has continued to offer many new products in their online store, including the new [LCR-Reader Probe Connector](#) that allows both Smart Tweezers and LCR-Reader to perform complete probing of PCBs and measure components outside the tweezers' reach. They also have begun to offer SMD Multimeter Test Tweezers that give multimeters tweezer-probe functions, and [Smart LED Test Tweezers](#) that measure components including LEDs and other components. Siborg has recently begun offering NIST traceable calibration certificates for LCR-Reader. Visit the [LCR-Reader Store](#) to see all of Siborg's devices as well as accessories and replacement parts.

Basic Smart Tweezers models ST5S and LCR-Reader are available on worldwide Amazon sites in both North America and Europe including the newly introduced [LCR-Reader Professional](#), that includes a NIST Traceable Calibration Certificate and spare tweezer tips.

About Siborg Systems Inc.

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