

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

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- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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SIBORG SYSTEMS INC

SMART TWEEZERS



Summary of Features

- Simultaneous Display of Active and Reactive Impedance Components
- Analog Bar Graph
- Fully automatic measurement of Inductance, Capacitance and Resistance
- Automatic selection of the best range
- Oscilloscope like display for AC voltage measurements

Accuracy Specifications

Resistance

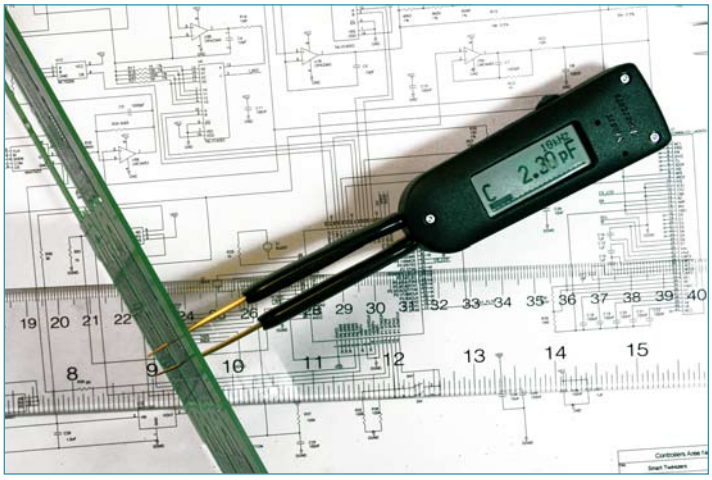
- Range: 0.1 Ω – 5 MΩ
- Accuracy: 1% in range 0.1 Ω – 5 MΩ
- Resolution: 0.01 Ω in range 0-10 Ω

Capacitance

- Range: 10 pF – 499 µF
- Accuracy: 5% in range 20 pF – 1000 µF
- Resolution: 0.5 pF in range 1pF- 100 pF

Inductance

- Range: 1µH - 1H
- Accuracy: 10% in range 1 µH – 10 µH
- 5% in range 10 µH – 100 µH
- 5% in range 100 µH - 1H
- Resolution: 0.5 µH in range 1 µH – 100 µH



www.siborg.com | smarttweezers@siborg.com | Phone: (519) 888-9906 | Fax: (519) 725-9522

SIBORG SYSTEMS INC

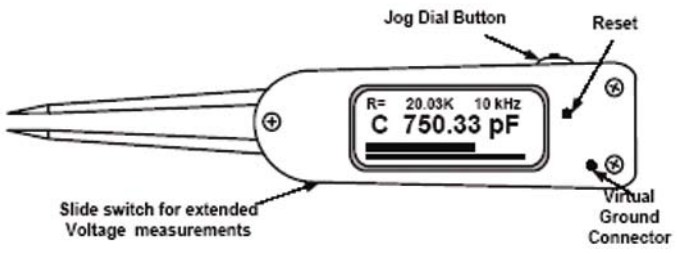


Physical Specifications

- Size: 14.0 x 2.5 x 3.0 cm (3.94 x 0.9 x 1.5 in)
- Weight: 53 grams (0.11lb)
- Battery Type: 1.5V LR44 Alkaline or Air zinc. Battery Life: 80
- Hours typical with alkaline, 240 hours with air zinc battery
- Electromagnetic Compatibility (EMC): Susceptibility and
- Emission: FCC 15 part B
- Warranty: 1 year

Basic Specifications

- Measured Parameters: C, L, R, ESR, Rs, Rp
- Measuring Frequencies: 100Hz, 1 kHz, 10 kHz
- Measurement rate: 1 time per second, default
- DC Voltage: 0 to 800 mV (Up to 8V with optional slide switch
- manual setting)
- Resistance: 0.1 Ω to 9 MΩ
- Capacitance: 10 pF to 900 µF
- Inductance: 1µH to 999 mH



Features

- Smart Tweezers is an automatic high-precision digital R-L-C meter integrated with a set of tweezers that easily fit in one hand.
- Smart Tweezers automatically identifies the component measured (R, L, C) as well as the best measurement range and frequency, making ST the best tool ever for SMT.
- ST is an unrivalled tool for identification and measurement of SMD components. Weighing about one tenth of a pound ST does this job in one touch speeding up the identification process hundreds of times. It can handle the smallest components down to 0.5 mm size.
- ST accuracy is about 1% for resistance and 5% for capacitance and inductance measurements, which is similar or even higher than that of conventional professional devices.
- Smart Tweezers can be used for a circuit on a PCB if you know the circuit and understand how it works. It can also be used for voltage measurements to debug a working circuit.
- By measuring a voltage drop on a resistor and the resistor value, current through the resistor is easily calculated, effectively allowing ST use for measuring currents in operating circuits.
- Smart Tweezers can also be used for a PCB parasitics extraction due to its own very low parasitic capacitance of a fraction of a pF. As a result it allows to estimate inter-track PCB parasitic capacitance of the order of 1 pF that is very important for high frequency circuits.

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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