

TM-200

IntelliTweeze™

R-C-L TweezerMeter™

by Excelta®

with
Improved Features,
New Name and Part Number



The IntelliTweeze™ is a quick and easy way of testing and troubleshooting many types of components. With the use of only one hand, this lightweight unit will quickly measure resistance, capacitance, inductance, voltage, continuity and polarity.

Measures Resistance, Capacitance and Inductance

The primary display shows the present reading.

The secondary display (above the primary display) shows the present reading of additional parameters when the primary display shows other features (L,C).

The bar graph provides an analog indication of the measure input.

Measures Voltage

The auto mode measures DC voltage from 100uV to 8VDC.

The trace mode shows an oscilloscope picture of AC voltage.

Measures Continuity

The beeper sounds for resistance below the threshold, or to indicate momentary open circuit.

Measures Diode Polarity

Manual setting for testing polarity on diodes.



FEATURES

Precision gold plated replaceable tips are specially designed to work with small SMD components. With automatic recognition of measurement modes (R-C-L) and the range of measurement, sorting and evaluation of components becomes more efficient and cost effective.

Replacement Tip Part Number TM-200X

Dual display read-out dominant and secondary parameter C+D, H+Q, C+R, H+R

Auto range

Three test frequencies

Analog Bar Graph

Audio Feedback

Left/Right hand display mode

DC Voltage measurements

Trace mode – oscilloscope display

Manual mode settings

Manual test frequency settings

QUICK REFERENCE

PRIMARY DISPLAY The Primary Display is located in the middle of the display and is the larger of the two displays available. It shows the present reading. For most functions the primary display shows 5 digits. If OUT OF RANGE is displayed, an overload condition is present.

SECONDARY DISPLAY The Secondary Display is located at the top of the display screen and is the smaller of the two displays. It shows the present reading of additional parameters, or measurement conditions when the primary display shows some other feature (e.g. L, C). When multiple features are present, the secondary display shows one of the values.

For example, ESR value can appear in the secondary display while capacitor value appears in the primary display.

GETTING STARTED

To turn ON the IntelliTweeze™ push down or rotate the Jog Dial. The symbol in the lower left corner will indicate the device is ON and ready to take measurements. The default mode is AUTO. Rotate or push Jog Dial to activate the Menu Mode.

The IntelliTweeze™ will automatically shut OFF if no measurements were taken or Jog Dial has not been touched for 30 seconds.

CAUTION: Auto Power OFF does not work in the VOLTAGE measurement mode.

BASIC SPECIFICATIONS

Measurement Functions	R, L, C, ESR, D, Q Continuity check, DC Voltage (optional)
Measurement Ranges	Accuracy
Resistance	0.1 ohm to 9.9 Mohm <5% 5 ohm to 999Kohm <1%
Capacitance	10pF to 100uF <3% 0.5pF to 4999uF <5%
Inductance	10uH to 99mH <3% 0.5uH to 999mH <5%
DC Voltage	0V to 8V <1%
Test Frequencies	100Hz, 120Hz, 1kHz, 10kHz
Max Test signal level	400-460 mV
Source resistance	620 Ohm

BATTERY

The IntelliTweeze™ uses three 1.4-1.5V alkaline or air zinc "Button" batteries, size 11.2 X 5.6 mm
Alkaline LR44, 357A, SG13, A76, AG13, L1154
Air Zinc ZA675, VT675, KL675, 675A
The typical battery life is 70 hours with alkaline batteries.