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VOLTCRAFT® - TOP PERFORMANCE IN EVERY WAY

“For more than 25 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft’s success.”

SMD-200 **RCV MEASUREMENT DEVICE**

CE

VERSION 08/09

Nº 12 30 07

The tweezers adapter allows small SMD components to be held and measured at the same time. The measurement unit lies perfectly in the hand and always allows a view of the display. The device runs on two button-cell batteries (LR44 type) and is suitable for use in laboratories and testing stations.

HIGHLIGHTS

With tweezers and measurement line adapters //

For condensers and resistors //

DC/AC voltage measurement //

Resistance measurement //

Capacitance measurement //

Diode test //

Continuity measurement //



GENERAL SPECIFICATIONS

DISPLAY: LCD, 6000 counts **BASIC ACCURACY:** $\pm 0.8\%$ **VOLTAGE SUPPLY:** 2 x LR44 batteries **WEIGHT:** 110 g **DIMENSIONS (W x H x D):** 37 x 23 x 184 mm

TECHNICAL DATA

General information

Max. measurement rate:	2 measurements per sec.
Safety class:	II (double insulation)
Max. voltage in measuring circuit and against ground potential:	600 V DC/AC RMS
Max. input current:	2.5 A
Operating temperature:	-10 °C to +50 °C (14 °F to 122 °F) < 70 % rel. humidity
Temperature for guaranteed accuracy:	23 °C \pm 5 °C < 70 % rel. humidity
Storage temperature:	-30 °C to +60 °C (-4 °F to +140 °F) < 80 % rel. humidity

Measurement tolerances

Statement of accuracy in \pm (% of reading (= reading = rdg) + display error in digits (= dgt = no. of the smallest points)). The accuracy is valid for one (1) year at a temperature of +23 °C \pm 5 °C, and at a relative humidity of less than 70 %, non-condensing.

Function	Range	Resolution	Accuracy	Miscellaneous
V/DC (direct current)	600.0 mV	0.1 mV	$\pm (0.8\% + 2 \text{ dgt})$	Input impedance: 10 M Ω max. input: 600 V/DC or 600 V/AC, RMS
	6.000 V	1 mV		
	60.00 V	10 mV	$\pm (1.0\% + 4 \text{ dgt})$	
	600.0 V	100 mV		
V/AC (alternating current)	600.0 mV	0.1 mV	$\pm (1.0\% + 4 \text{ dgt})$	Input impedance: 10 M Ω max. input: 600 V/DC or 600 V/AC RMS, 50/60 Hz
	6.000 V	1 mV		
	60.00 V	10 mV	$\pm (1.2\% + 6 \text{ dgt})$	
	600.0 V	100 mV		
Ω (resistance in ohm)	600.0 Ω	0.1 Ω	$\pm (0.8\% + 8 \text{ dgt})$	---
	6.000 k Ω	1 Ω	$\pm (1.5\% + 8 \text{ dgt})$	
	60.00 k Ω	10 Ω		
	600.0 k Ω	100 Ω	$\pm (2.5\% + 8 \text{ dgt})$	
	6.000 M Ω	1 k Ω		
60.00 M Ω	10 k Ω			
Capacitance (in Farad)	6.000 nF	1 pF	$\pm (5.0\% + 50 \text{ dgt})$	---
	60.00 nF	10 pF	$\pm (5.0\% + 7 \text{ dgt})$	
	600.0 nF	0.1 nF	$\pm (3.0\% + 5 \text{ dgt})$	
	6.000 μ F	1 nF		
	60.00 μ F	10 nF		
	600.0 μ F	0.1 μ F	$\pm (10\% + 10 \text{ dgt})$	
	6.000 mF	0.001 mF		
60.00 mF	10.00 mF			

Diode test

Test current:	1 mA
Test voltage:	max. 3 V/DC
Resolution:	1 mV
Accuracy:	$\pm (10\% + 5 \text{ dgt})$

Continuity

Test current:	max. 1.5 mA
Acoustic continuity:	< 30 Ω

PACKAGE CONTENT

Measurement device // Tweezers adapter // Measurement lines adapter // Protective cap // 2 batteries (LR44) // Operating instructions

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