

VOLTCRAFT

VOLTCRAFT – TOP PERFORMANCE IN EVERY WAY

For more than 40 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.

R-200 MILLIOHM - METER



Item no. 101393

The R-200 enables milliohm resistance measurements from 0.1 m Ω to 40 Ω with high resolution and accuracy to transformers, circuits, ring-bus systems, components, etc. High accuracy due to 4-cable Kelvin measuring procedure.

FEATURES

High accuracy // High resolution // Additional multi-meter measuring functions // Test current up to 200 mA // Multimeter with measurement functions V/AC, V/DC, Ω , F, mA/AC, mA/DC, acoustic continuity tester and diode test // Rel-/Min-/Max- and hold function // Background lighting // Auto power-off //

TECHNICAL DATA

Display	LCD, 4000 Counts (digits) with bargraph
Measuring rate	approx. 2 measuring operations/second
Measuring lead length	approx. 80 cm each
Measuring impedance	>10M Ω (V range)
Automatic Power-Off	approx.30 minutes
Voltage supply	6 x mignon batteries (AA)
Working conditions	0 - 40°C (<80%rF)
Operating altitude	max. 2,000 m
Storage temperature	-10°C + 60°C (<70%rF)
Earth DMM	approx. 550 g
Dimensions (LxWxH)	200 x 92 x 50 (mm)
Over-voltage category	CAT III 600 V, Impurity level 2



DC Voltage

Range	Resolution	Accuracy
400 mV	0.1 mV	$\pm(1.0\% + 5)$
4 V	0.001 V	$\pm(1.2\% + 52)$
40 V	0.01 V	
400 V	0.1 V	
600 V	1 V	
Overload protection: 600 V; Impedance approx. 10 MOhm		

AC Voltage

Range	Resolution	Accuracy 50-60 Hz	Accuracy 400 Hz
400 mV	0.1 mV	$\pm(1.2\% + 10)$	$\pm(2.5\% + 10)$
4 V	0.001 V		
40 V	0.01 V	$\pm(1.0\% + 10)$	$\pm(1.2\% + 10)$
400 V	0.1 V		
600 V	1 V		
Frequency range 50 – 400 Hz; effective average at sinusoidal voltage; overload protection 600 V; Impedance approx. 10 MOhm			

DC Current

Range	Resolution	Accuracy
400 μ A	0.1 μ A	$\pm(1.5\% + 5)$
4000 μ A	1 μ A	
40 mA	0.01 mA	
400 mA	0.1 mA	
Overload protection: 600 V, fuse FF500 mA		

AC Current

Range	Resolution	Accuracy
400 μ A	0.1 μ A	$\pm(1.5\% + 5)$
4000 μ A	1 μ A	
40 mA	0.01 mA	
400 mA	0.1 mA	
Overload protection: 600 V, fuse FF500 mA; frequency range 50-400 Hz		

Resistance 2-lead measurement

Range	Resolution	Accuracy
400 Ω	0.1 Ω	$\pm(1.0\% + 4)$
4 k Ω	0.001 k Ω	$\pm(1.5\% + 2)$
40 k Ω	0.01 k Ω $\pm(1.5\% + 2)$	
400 k Ω	0.1 k Ω	
4 M Ω	0.001 M Ω	$\pm(2.5\% + 3)$
40 M Ω	0.01 M Ω	$\pm(3.5\% + 5)$
Overload protection 600 V		

Resistance 4-lead measurement

Range	Resolution	Accuracy	Test current
400 m Ω	0.1 m Ω	$\pm(1.0\% + 10)$	200 mA
4 Ω	0.001 Ω	$\pm(1.0\% + 5)$	20 mA
40 Ω	0.01 Ω		2 mA
Overload protection 30 V			

Capacity

Range	Resolution	Accuracy
4 nF	0.001 nF	not specified
40 nF	0.01 nF	±(5.0% + 20)
400 nF	0.1 nF	±(3.0% + 10)
4 µF	0.001 µF	
40 µF	0.01 µF	
400 µF	0.1 µF	±(4.0% + 10)
4 mF	0.001 mF	±(10.0% + 10)
10 mF	0.01 mF	±(15% + 10)
Overload protection 600 V		

Diode Test

Test voltage	Resolution	Test current
2.8 V	0.001 V	1 mA (typical)
Overload protection 600 V		

PACKAGE CONTENTS

R-200 // 1 set of Kelvin measurement cables // 6 batteries (type AA) //
Strong storage case // Operating instructions