

VOLTCRAFT

VOLTCRAFT - RELIABLE AND PRECISE. SINCE 1982.

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-1000 MICRO OHM METER



Item no. 3414440

Ohmmeter intended to measure low resistance values

FEATURES

0.001 mΩ - 300.0 kΩ // Rechargeable battery // IP 54 Ingress protection



TECHNICAL DATA

Product

Item	Value
Rechargeable battery	3.7 V 3200 mAh 11.84 Wh Li-ion
Power consumption (standby)	<130 mA (connected to test clip)
Protection class	II
Ingress protection	IP54
Testing method	4-wire method
Testing current	≤1 A
Open-circuit voltage	≤4.2 V
Measurement power	<8 W
Display backlight	yes
Measurement speed	approx. 2× per sec
USB-C® port	data transfer
Data storage	499 readings
Overrange indication	“OL” is displayed
Auto power off	approx. 15 minutes of inactivity
Operating temperature	−10 to +50 °C
Storage temperature	−20 to +60 °C
LCD dimension (L x W)	102 x 50 mm
Dimensions (W x H x D)	161 x 117 x 68 mm
Weight	480 g
Applicable standards	IEC61010-1

Test leads

Item	Value
Applicable standard	IEC/EN 61010-031
Length	approx. 70 cm

Accuracy

Item	Value
Ambient temperature	23 ±5 °C
Ambient humidity	45 - 75 % RH
External magnetic field	None (Earth’s magnetic field)
Battery voltage	Available effective battery voltage
Temperature coefficient	A testing error of ±0.01% will be added per degree (Celsius) if test is performed in temperature of >28 °C or <18 °C

Accuracy

Range	Resolution	Testing current (max.)
0.001 mΩ - 10.000 mΩ	0.001 mΩ	1 A
10.01 mΩ - 100.00 mΩ	0.01 mΩ	1 A
100.1 mΩ - 1000.0 mΩ	0.1 mΩ	100 mA
1.001 Ω - 10.000 Ω	0.001 Ω	10 mA
10.01 Ω - 100.00 Ω	0.01 Ω	1 mA

100.1 Ω - 1000.0 Ω	0.1 Ω	100 µA
1.001 kΩ - 10.000 kΩ	0.001 kΩ	10 µA
10.01 kΩ - 100.00 kΩ	0.01 kΩ	10 µA
100.1 kΩ - 300.0 kΩ	0.1 kΩ	3 µA

- 18 to 28 °C; 75 % RH: ±(0.1 % FS +20 dgt)
- 1 Ω (ohm) = 1000 mΩ
- Overrange indication: “OL” is displayed if the measurement range is exceeded.

PACKAGE CONTENTS

Meter // 2x Test leads // Carry strap // Power adapter // USB-A to USB-C® data cable // Carrying case // Operating instructions