

3½ - Digit Milliohm Meter HM 8014



Measurement ranges from 200 mΩ to 20 kΩ

Resolution 100 μΩ, basic accuracy 0.25 %

4-wire Kelvin measurement

Low measurement voltages from 4 mV to 200 mV

Low measurement current from 10 μA to 20 mA

Mainframe HM8001-2 required for operation

HZ19 Test tweezers



HZ17 Test lead (included)



HZ18 Kelvin test lead



3½ -Digit Milliohm Meter HM8014

Valid at 23 °C after a 30 minute warm-up period

Operating mode

Milliohm measurement
Diode testing

Milliohm measurement

Measurement ranges: 200 mΩ-20 kΩ (6 ranges)
Type of measurement: 4-wire measurement (Kelvin test lead)
Resolution: max. 0.1 mΩ
Accuracy: 200 mΩ-20 Ω: 0.25 % of reading ± 2 digits
200 Ω-20 kΩ: 0.25 % of reading ± 1 digit

Measurement voltage and current:

Range	max. voltage ¹⁾	Current	Test voltage
200 mΩ	6 mV	20 mA	4 mV
2 Ω	6 mV	2 mA	4 mV
20 Ω	6 mV	0.2 mA	4 mV
200 Ω	300 mV	1 mA	200 mV
2000 Ω	300 mV	100 μA	200 mV
20 kΩ	300 mV	10 μA	200 mV

Max. permissible input voltage: ± 30 V

Diode testing

Voltage measurement range: 1999 mV
Accuracy: 0.25 % of reading ± 1 digit

Measurement voltage and current:

Range	max. voltage ¹⁾	Current	Test voltage
1999 mV	3 V	20 mA	2 V
1999 mV	3 V	2 mA	2 V
1999 mV	3 V	200 μA	2 V

Currents can be selected using pushbuttons

Max. permissible input voltage: ± 30 V

Display

3½-digit 7-segment LED display

Sampling rate: 3 measurements per second

Miscellaneous

A built-in loudspeaker emits acoustic signals at different pitches depending on the size of the measured resistance.

Volume adjustable.

Output power: 250 mW

When headphones are used, the loudspeaker is automatically deactivated. Zero calibration on the front panel.

Power supply (from mainframe): + 5 V/250 mA
+7.5 V/60 mA
- 5 V/60 mA
(Σ = 2.45 W)

Operating temperature: +10° C to +40° C

Max. relative humidity: 80 % (without condensation)

Dimensions (W x H x D) (without 22-pole flat plug):
135 x 68 x 228 mm

Weight: approx. 0.65 kg

¹⁾ without load

Accessories supplied: Operator's Manual, HZ17 4-wire test lead
Optional accessories: HZ19 test tweezers, HZ18 Kelvin test lead

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