

RM3548 - High-precision Portable Resistance Meter

High-precision Portable Resistance Meter Measures from $\mu\Omega$ to M Ω

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Manufacturer [Hioki](#)

Description

Overview

Hioki DC resistance meters measure a broad range of resistance values at a high level of precision. The RM3548 is a high-precision, portable resistance meter capable of measuring resistance levels from microohms to megaohms, and is ideal for the testing and maintenance of large equipment, for example, measuring the winding and weld resistances in large motors and stators for hybrid and electric vehicles. **Key Features**

- 0.02 % basic accuracy, 0.1 Ω max. resolution, 1A max. testing current
- Measure from 0.0 Ω (testing current 1 A) to 3.5 M Ω
- Easily record up to 1,000 data points in memory simply by applying the instrument's probes
- Smoothly capture temperature-rise test data using interval measurement
- Portable design is ideal for maintenance and testing of large equipment

Specification:

Resistance range	3 m Ω (3.5000 m Ω display Max., 0.1 $\mu\Omega$ resolution) to 3 M Ω range (3.5000 M Ω display Max., 100 Ω resolution), 10 steps Measurement accuracy: ± 0.020 % rdg. ± 0.007 % f.s.
Testing current	[at 3 m Ω range] 1 A DC to [at 3 M Ω range] 500 nA DC
Open-terminal voltage	5.5 V DC max.
Temperature measurement	-10.0 to 99.9 $^{\circ}$ C, accuracy: $\pm 0.50^{\circ}$ C (Temperature Sensor Z2002 and RM3548 combined accuracy)
Measurement speed	Fixed
Display refresh rate	Without OVC: approx. 100ms, With OVC: approx. 230ms
Functions	Temperature correction, temperature conversion, offset voltage compensation (OVC), comparator (ABS/REF%), length conversion, judgment sound setting, auto hold, auto power save (APS), Averaging, panel store/panel load, USB communication interface (RM3548 internal memory is recognized as a mass storage device when connected to a PC)
Memory storage	Number of recordable data points: (manual/auto) Up to 1,000, (interval) Up to 6,000; Interval: 0.2 to 10.0s (0.2s steps); Acquisition of data from memory: display, USB mass storage (CSV, TXT files)
Power supply	LR6 (AA) Alkaline batteries $\times 8$, Continuous use: 10 hours (Under our company's conditions), Rated power consumption: 5 VA max.

Dimensions and mass	192 mm (7.56 in) W × 121 mm (4.76 in) H × 55 mm (2.17 in) D, 770 g (27.2 oz)
Accessories	Clip type lead L2107 ×1, Temperature sensor Z2002 ×1, LR6 Alkaline battery ×8, Instruction manual ×1, USB Cable(A-to-mini B type) ×1, Strap ×1, Spare fuse ×1