HIOKI

RESISTANCE METER
RM3545, RM3544

RESISTANCE METER RM3545

Featuring super-high accuracy and multi-channel capabilities

(20 channels with 4-terminal measurement)

- Basic accuracy : 0.006%
- No. of display digits: Max. 6.5
- Max.resolution : 0.01μΩ (LP) 0.01mΩ

RESISTANCE METER RM3544

High-accuracy bench-top meter ideal for production lines

- Basic accuracy : 0.02%
- No. of display digits: Max. 4.5
- Max.resolution : 1μΩ

CE 3 year Warranty

Choose from two models based on your application

RM3545

Super-high accuracy and multi-channel capabilities

for advanced development and production applications

●Resistance measurement

Basic accuracy : **0.006%** Max. resolution : **0.01μΩ**

Max. measurable current : **1A**

●Low power resistance measurement

Basic accuracy : **0.2%** Max. resolution : **0.01mΩ**

Max. measurable current : **1mA** Max. Open-circuit voltage : **20mV**

RM3544

High-accuracy bench-top meter

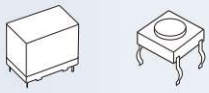
for both manual operation and integration with automatic lines

Basic accuracy : **0.02%** Max. resolution : **1μΩ**

Max. measurable current : **300mA**

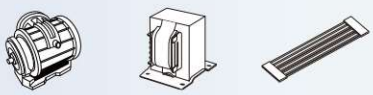
■ Applications

■Small-signal contacts — RM3545

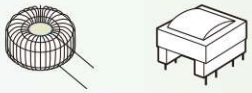


■Compact fuses, airbag inflator, compact magnetic components (EMC filters, ferrite beads) — RM3545

■Multi-contact resistance measurement (motor and transformer windings) — RM3545-02



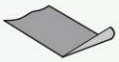
■Motors, solenoids, choke coils, transformers, wire harnesses — RM3545 RM3544



■Contacts, wire harnesses, relay contacts, switches — RM3545 RM3544

■Fuses, resistors, heaters, wires, welds — RM3545 RM3544

■Conductive rubber, paint — RM3545 RM3544



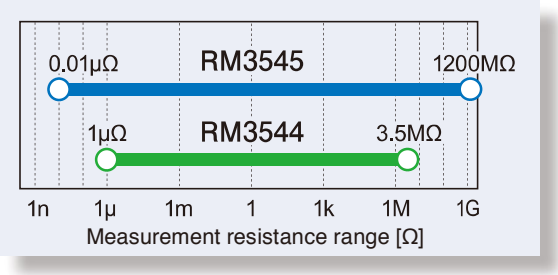
■ General specifications

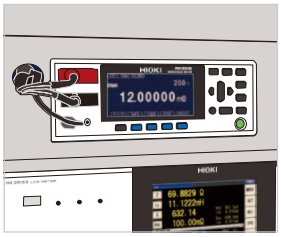
RESISTANCE METER RM3545		RESISTANCE METER RM3544
0.00μΩ to 1200MΩ	Measurement types (4-terminal direct current)	0.000 mΩ to 3.5 MΩ
✓	Temperature measurement, Temperature correction (TC), comparator, judgment sound setting, auto hold	✓
✓	Low power resistance measurement (LP)	N/A
✓	Temperature rise (Temperature conversion (ΔT)	N/A
✓	Offset voltage compensation (OVC)	N/A
✓	D/A output	N/A
✓ RM3545-02 : Max. 20ch	Multiplexer	N/A

Simplifying high-accuracy resistance measurement

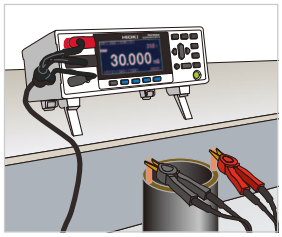
■ Standard features of the high-accuracy Resistance Meter RM3545 and RM3544

● Convenient wide range options RM3545 RM3544





Integrate into automated inspection systems



Manual testing on production lines

Overview of the RM3545 RM3545

Measure from 0.00μΩ to 1200.0MΩ
0.01μΩ max. resolution, 0.006% basic accuracy
Max.measurable current of 1A

The RM3545 can perform resistance measurement with a 6.5-digit, 1,200,000-count display at a maximum resolution of 0.01 μΩ. It delivers more than enough capabilities to be used in applications requiring high-resolution resistance measurement, for example in testing inverter motor windings.
High-resistance materials such as conductive sheets and conductive rubber are often used in electronic components. The RM3545 can measure resistance values of up to 1,200 MΩ. It also delivers maximum accuracy of 0.006%, enabling researchers to test state-of-the-art current sensing resistors.

Overview of the RM3544 RM3544

Measure from 0.000mΩ to 3.5000MΩ
1μΩ max. resolution, 0.02% basic accuracy
Max.measurable current of 300mA

As inverter-equipped power supply equipment uses increasingly high currents and frequencies, increasingly low-resistance and low-loss inductors are being incorporated in their circuitry, prompting a need for the ability to measure lower resistance levels with a high level of stability. With a resolution of 1 μΩ, the RM3544/RM3544-01 satisfy these needs.
Electronic components make extensive use of high-resistance substrates such as conductive sheets and rubber, and the RM3544/RM3544-01 deliver the ability to measure up to 3.5 MΩ.
Moreover, the instruments' maximum accuracy of 0.02% allows them to be used in testing current detectors with a precision of 0.1%.

● Guaranteed accuracy with no warm up or zero-adjustment RM3545 RM3544

For the RM3545/RM3544, accuracy is guaranteed* immediately after startup, without any warm up or zero-adjustment.

*When performing measurement with the RM3545 in a temperature and humidity environment that satisfies the guaranteed accuracy conditions, an even higher level of accuracy (full accuracy) is guaranteed.

● Offset Voltage Compensation (OVC) RM3545

Thermal EMF occurs at connections between different metals. This force can affect measurement and, if large enough, introduce a measurement error. The RM3545's offset voltage correction (OVC) function reduces the effects of thermal EMF to enable more precise measurement.

● High-durability probes RM3545 RM3544

HIOKI offers a line of probes designed to accommodate the full range of measurement targets. Flex resistance has been dramatically improved (based on HIOKI comparisons).

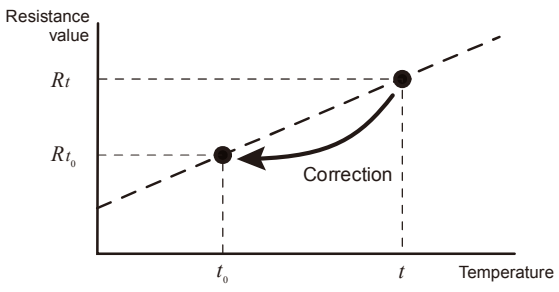
Leads (overall view)

Example lead tip profiles

■ Temperature correction RM3545 RM3544

Generally, the resistance of copper wiring changes with temperature by 0.4% per degree Celsius. The RM3544/RM3545 provide a temperature correction function to convert the observed resistance value *Rt* at the current temperature *t* to the resistance value Rt_0 at the reference temperature t_0.
**Requires the Temperature Sensor Z2001 or a thermometer capable of generating analog voltage output (an infrared thermometer or similar instrument).*

Types of temperature input	RM3544: Temperature Sensor (Z2001) RM3545: Temperature Sensor (Z2001), Analog voltage input (from an infrared thermometer, etc.)
Reference temperature setting range	-10.0 to 99.9 °C
Temperature coefficient setting range	RM3544: -9,999 to 9,999 ppm/°C RM3545: -99,999 to 99,999 ppm/°C



Easy-to-use RESISTANCE METER

suits both manual operation and integration with automatic lines

■ High-intuitive advanced functionality

RM3545 RM3544

① Guard terminals

Minimize the effects of external noise on measurements.

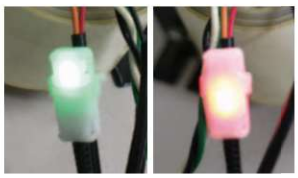
*GUARD terminal is the shield potential.
This terminal is not for guarding network resistance measurements.

② Simple control over basic settings

Range and measurement speed can be controlled directly.

③ LED COMPARATOR ATTACHMENT (Option)

The LED Comparator Attachment indicates judgment results with green and red LEDs, eliminating the need to look at the instrument's screen and increasing work efficiency. Since the lamps do not light up when the measurement leads are open, the attachment can also be used to verify the connection status.



Green light
IN state

Red light
HI/LO state

④ High-volume, user-selectable judgment tones

The RM3544 indicates results with a high-volume judgment tone of 85 dB or greater to ensure it is audible near noisy machinery.
Both the RM3545 and RM3544 feature user-selectable judgment tones so workers don't confuse judgment results on lines where multiple resistance meters are being used.

⑤ Functionality for saving and loading panels

The RM3545 (RM3544) can save and load up to 30* (10) sets of range, comparator, and other settings. Naming each set of panel data lets you make setup changes among production lots and lines smoothly and effortlessly.

*When using the multiplexer terminals, up to 8.

⑥ Material-and temperature-independent temperature correction function

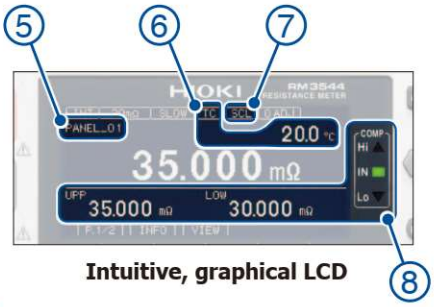
The temperature correction function can be used to convert resistance values that vary with the ambient temperature to a reference value at a reference temperature using the Temperature Sensor Z2001 and a user-specified resistance temperature coefficient.

⑦ Scaling

The scaling function can be used to convert resistance values into physical properties such as length.

Conversion formula : $Rs = A \times R + B$

A, B : Constants, R : Measurement value
Rs : Resistance value



Intuitive, graphical LCD

⑧ Comparator Function

The comparator function compares measured values to a previously set reference value or range and then displays and outputs the judgment result. The RM3545 and RM3544-01 can also output this information using EXT I/O.

■ High-precision specs in a compact package

RM3544

RM3544

● Footprint of just 215 × 166 mm

Compared to the previous model (HIOKI 3540), the RM3544/RM3544-01 take up approximately 25% less installation space.
This space-saving design frees up space in front of the instrument and lets you build compact production lines.

■ Easy integration into automatic testing equipment (RM3545/-01/-02, RM3544-01)

RM3545 RM3544

● Ability to extend measurement cable length

The new instruments feature better wiring resistance tolerances than previous models (the 3541 and 3540). Wiring resistance can now be as high as 1.5 Ω for the RM3545 and 2 Ω for the RM3544.

● High-speed, comprehensive productivity support

- The RM3545 and RM3544-01 deliver the speed demanded by automatic testing equipment at a sophisticated level. The entire process from the start of measurement to outputting of the judgment result takes as little as 2.2 ms[*1] (RM3545) and 18 ms (RM3544-01). One cycle of operation, lasting from measurement to judgment output, completes within this time. [*1] When the measurement current is set to "High".
- The instrument's USB interface can also be used.
- The RM3545 and RM3544-01 support RS-232C data communications at up to 115.2 kbps[*2].
- The EXT I/O output mode can be switched between judgment mode and BCD mode.

[*2] With some computers, large error components may prevent fast transfer speeds (baud rates) from being used. In this case, change the speed to a lower setting.

● Handler (EXT I/O) interface

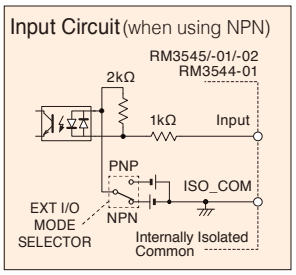
The handler interface (EXT I/O) is isolated from measurement circuitry, control circuitry, and the protective ground (chassis ground), providing a high level of noise resistance.

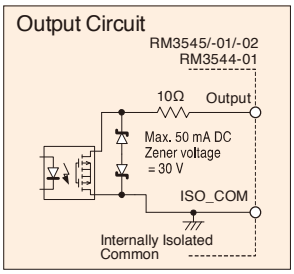
When designing a control system using the EXT I/O interface, be sure to read the instruction manual and check the necessary technical information.

■ EXT I/O Input and Output Circuits

A switch on the rear panel is used to toggle the input signal polarity between NPN (sink output support) and PNP (source output support) settings depending on the PLC common polarity.

EXT I/O polarity (Select NPN/PNP)





■ EXT I/O Electrical Specifications

● Inputs:
Photocoupler isolation: Non-voltage contact inputs (support for current sink output)
Input ON: Residual voltage: Max. 1 V @4 mA
Input OFF: Open Max. 100 μA

● Outputs:
Photocoupler-isolated open drain output (no-polarity)
DC30Vmax, DC50mAmax/ch
Residual voltage: Max. 1 V @50 mA, or 0.5 V @10 mA

● External power output:
Output voltage: Sink output support: 5.0V±10%,
Source output support: -5.0V±10%
Max. output current: 100mA

■ EXT I/O Signal List

● RM3545 RM3545

Input Signals:
TRIG(IN0), CAL, KEY_LOCK, 0ADJ, PRINT(IN1), MUX, SCN_STEP, LOAD0 to LOAD5, BCD_LOW

Output Signals:
[Judgment mode] EOM, ERR, INDEX, HI, IN, LO, T_ERR, T_PASS,
T_FAIL, BIN0 to BIN9, OB, OUT0 to OUT2
[BCD mode] EOM, ERR, IN, HILO, BCDm_n*, RNG_OUT0 to RNG_OUT3 * Indicates the nth bit of the mth digit.

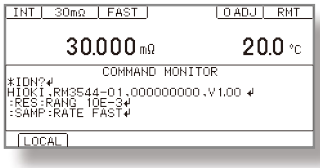
● RM3544-01 RM3544

Input Signals:
TRIG(IN0), KEY_LOCK, 0ADJ, PRINT(IN1), LOAD0 to LOAD3, BCD_LOW

Output Signals:
[Judgment mode] EOM, ERR, INDEX, HI, IN, LO, OUT0 to OUT2
[BCD mode] EOM, ERR, IN, HILO, BCDm_n*, RNG_OUT0 to RNG_OUT3 * Indicates the nth bit of the mth digit.

● Communications Monitor Function for smooth systems development

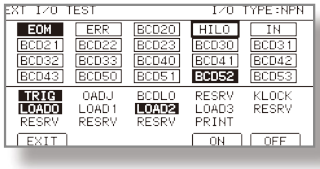
The Communications Monitor Function displays communications data (received commands and sent data) on the screen, providing valuable support for programming of programmable logic controllers (PLCs).



Communications Monitor screen

● Functionality for verifying the EXT I/O connection status and testing EXT I/O

In addition to allowing you to check EXT I/O signal input on the instrument's screen, this functionality allows you to turn output signals on or off as desired. This capability simplifies verification work during PLC programming.



EXT I/O test function screen

RM3545/RM3544 Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)

	RM3545	RM3544
Measurement types	Resistance measurement: 0.000 00mΩ (10mΩ range) to 1200.0MΩ (1000MΩ range), 12 ranges Low power resistance measurement: 0.00mΩ (1000mΩ range) to 1200.00Ω (1000Ω range), 4 ranges Temperature measurement (thermistor): -10.0 to 99.9°C Temperature measurement (analog input): -99.9 to 999.9°C	Resistance measurement: 0.000mΩ (30mΩ range) to 3.500 0MΩ (3MΩ range), 9 ranges Temperature measurement (thermistor): -10.0 to 99.9°C
Measurement method	4-terminal direct current (constant current), banana plug, with guard terminal	
Range switching	Auto or Manual	
Temperature correction	Reference temperature setting range: -10°C to 99.9°C, Temperature coefficient setting range: -99,999 ppm/°C to 99,999 ppm/°C	Reference temperature setting range: -10°C to 99.9°C, Temperature coefficient setting range: -9,999 ppm/°C to 9,999 ppm/°C
Zero-adjustment	By range, by step (RM3545-02 only) Within ±50% f.s. of each range. (Zero-adjustment is not required for 100 MΩ or greater ranges.)	Within -3% to 50% f.s. of each range. (f.s.= 30,000 dgt.)
Trigger	Internal or external	RM3544: Internal trigger, RM3544-01: Internal or external
Measurement speed	FAST / MED / SLOW1 / SLOW2	FAST / MED / SLOW
Delay	Internal fixed value: / 0 to 9999 ms (1ms step)	N/A
Functions	Temperature correction, Temperature conversion, Self-calibration, offset voltage compensation (OVC), comparator (ABS/REF%), BIN, key-lock (OFF, menu lock, all lock), display digit count selection function (7 digits/6 digits/5 digits), automatic power supply frequency settings (AUTO/50Hz/60Hz), scaling, judgment sound setting, auto hold, statistical calculations, clock, self-test, L2105 LED Comparater Attachment output	Temperature correction, comparator (ABS/REF%), key-lock (OFF, menu lock, all lock), display digit count selection function (5 digits/4 digits), automatic power supply frequency settings (AUTO/50Hz/60Hz), scaling, judgment sound setting, auto hold, L2105 LED Comparater Attachment output
Measurement fault detection functions	Contact check, over detection, current fault detection	Over detection, current fault detection
Averaging	OFF, 2 to 100 averaging iterations (variable in 1-iteration steps)	
Panel store, panel load	30 (Front terminals), 8 (MUX (multiplexer)) Panel save parameters: save time and date, resistance measurement ranges, measurement speed, comparator, BIN setting, multiplexer setting, etc.	10 Panel save parameters: resistance measurement ranges, measurement speed, comparator, etc.
Multiplexer	RM3545-02: Number of installed units: Max. 2 Measurement terminal settings : Front terminals / MUX (multiplexer) When using the MUX setting, the measurement leads cannot be connected to the front measurement terminals Support unit: Z3003 Number of channels that can be set: 42, switching time 30 ms (reference value)	N/A
D/A output	Output: resistance measured value Output voltage: 0V DC to 1.5V DC Output impedance: 1kΩ Number of bits: 12bit	N/A
EXT I/O	TRIG and other, BIN, BCD	RM3544-01 : TRIG and other, BCD
Communication interfaces	Select from GP-IB*, RS-232C, PRINTER(RS-232C), or USB *RM3545-01 only	RM3544-01: Select from RS-232C, PRINTER(RS-232C), or USB
Communication interfaces	Remote function, communications monitor function, data output function, memory (50 data)	Remote function, communications monitor function, data output function
RS-232C	Bit rates: 115,200 / 38,400 / 19,200 / 9,600 bps	
USB	Class: CDC (COM mode), HID (USB keyboard mode)	
Printer (RS-232 port)	Printed data: Resistance measurement values, temperature measurement values, judgment results, measurement conditions, statistical results	Printed data: Resistance measurement values, temperature measurement values, judgment results, measurement conditions
	Operation: Prints at PRINT signal or PRINT key input. Interval: ON/OFF, Interval times: 1 to 3,600 s (variable in 1 s steps), Number of print columns per row: 1 or 3	
Operating temperature and humidity	0 to 40°C, 80% rh or less (non-condensating)	
Storage temperature and humidity	–10 to 50°C, 80% rh or less (non-condensating)	
Operating environment	Indoors, Pollution Degree 2, up to 2,000 m ASL	
Power supply	Rated supply voltage: 100 to 240 VAC ±10%, Rated supply frequency: 50/60 Hz	
Rated power consumption	40 VA	15 VA
Insulation withstand potential	1.62 kV AC for 1 min. (with 10 mA cutoff current), between all mains supply terminals and protective ground, interfaces, and measurement terminals	
Dimensions	Approx. 215W × 80H × 306.5D mm (8.46"W × 3.15"H × 12.07"D) (without projections)	Approx. 215W × 80H × 166D mm (8.46"W × 3.15"H × 6.54"D) (without projections)
Mass	RM3545, RM3545-01: Approx. 2.5 kg (88.2 oz) RM3545-02:Approx. 3.2 kg (112.9 oz) (not including Z3003)	RM3544: Approx. 0.9 kg (31.7 oz) RM3544-01:Approx. 1.0 kg (35.3 oz)
Accessories	Power cord ×1, CLIP TYPE LEAD L2101 ×1, temperature sensor Z2001 ×1, male EXT I/O connector ×1, instruction manual ×1, application disc ×1, USB cable (A-to-B type) ×1, spare fuse ×1	Power cord ×1, CLIP TYPE LEAD L2101 ×1, male EXT I/O connector* ×1, instruction manual ×1, application disc* ×1, USB cable (A-to-B type)* ×1, spare fuse ×1 *Included with RM3544-01.
Applicable standards	Safety: EN61010, EMC: EN61326, EN61000-3-2, EN61000-3-3	

●Additional accuracy when using the Z3003

RM3545

When performing measurements using the Z3003, the following uncertainties are added to the RM3545 specifications (accuracy):

Z3003 additional error		
Effects of leak current	Add a reading error shown on right depending on the measurement current (when using guarding) (With humidity of less than 70% RH. If the humidity is greater than or equal to 70% RH, add the following rdg. error × 5.):	$\frac{1\times10^{-9}\,[A]}{I_{MEAS}\,[A]}\times100\,[\%rdg.]$
Effect of measurement speed	Add the f.s. error component shown on right when the integration time is not a whole-number multiple of the power supply cycle:	$A_{fs}\times0.5\,[\%rdg.]$
Effect of offset voltage	Add the resistance shown on right to the error when OVC is OFF:	$\frac{10\times10^{-6}\,[V]}{I_{MEAS}\,[A]}\,[\Omega]$
Effect of offset resistance fluctuations	When using a 2-wire setup, add the wiring resistance shown on right to the error component.	0.1 Ω
Temperature coefficient	From 0°C to 18°C and 28°C to 40°C, add a temperature coefficient of ±(1/10 of additional accuracy) / °C.	

I_{MEAS} : Measurement current

A_{fs} : f.s. error component for RM3545-02 with Z3003

●RM3544

RM3544

Accuracy = ±(% rdg. + % f.s.)

• f.s. = calculated 30,000 dgt., where 0.010% f.s. = 3 dgt.

(Example) 0.020 + 0.007 ..... 0.020% rdg. + 0.007% f.s.

Range	Max. measurement display*6,*7	FAST	MED/SLOW	Measurement Current*8	Open-Circuit Voltage
30mΩ	35.000 mΩ	0.030+0.080	0.030+0.070	300mA	5.5Vmax.
300mΩ	350.00 mΩ	0.025+0.017	0.025+0.014	300mA	
3Ω	3.500 0 Ω	0.025+0.017	0.025+0.014	30mA	
30Ω	35.000 Ω	0.020+0.010	0.020+0.007	10mA	
300Ω	350.00 Ω	0.020+0.010	0.020+0.007	1mA	
3kΩ	3.500 0 kΩ	0.020+0.010	0.020+0.007	1mA	
30kΩ	35.000 kΩ	0.020+0.010	0.020+0.007	100µA	
300kΩ	350.00 kΩ	0.040+0.010	0.040+0.007	5µA	
3MΩ	3.500 0 MΩ	0.200+0.010	0.200+0.007	500nA	

*6 For negative values, to -10% f.s.
*7 The maximum display range is 99,999dgt.
*8 Measurement current accuracy is ±5%.

■Temperature measurement accuracy (RM3544/RM3545)

• Temperature Sensor Z2001 (for RM3544/RM3544-01)

RM3545 RM3544

Range of guaranteed accuracy	-10.0 to 99.9 °C
Display refresh rate	Approx. 2 s
Guaranteed accuracy period	1 year

• Temperature Sensor Z2001 and RM3545/RM3544/RM3544-01 combined accuracy

t: Temperature measurement values [°C]

Temperature	Accuracy
-10.0 °C to 9.9 °C	± (0.55 + 0.009 × |t-10|) °C
10.0 °C to 30.0 °C	± 0.50 °C
30.1 °C to 59.9 °C	± (0.55 + 0.012 × |t-30|) °C
60.0 °C to 99.9 °C	± (0.92 + 0.021 × |t-60|) °C

Standalone instrument accuracy: ± 0.2 °C

• Analog Input (for RM3545)

RM3545

Guaranteed accuracy range	0 to 2 V
Maximum allowable voltage	2.5V
Resolution	1mV
Display range	-99.9 to 999.9 °C
Measurement period (speed)	Approx. 50 ms, no moving average
Period of guaranteed accuracy	1 year
Accuracy	±1%rdg. ±3 mV

■Resistance D/A output accuracy (RM3545)

RM3545

Output accuracy	Resistance measurement accuracy ±0.2%f.s., (temperature coefficient ±0.02%f.s./°C)
Response time	Measurement time + Max. 1 ms

■Measurement time typical values (RM3545)

RM3545

Range	Measurement current	Measurement speed				
		FAST	MED		SLOW1	SLOW2
			50Hz	60Hz		
10 mΩ	N/A	41	61	58	141	241
100 mΩ	High	41	61	58	141	241
1000 mΩ	High	2.2	22	19	102	202
10 Ω	High	2.2	22	19	102	202
100 Ω	High	2.8	23	20	103	203

Unit: ms, Tolerance: ±10% ±0.2 ms

* Shortest time when using an external trigger source or with continuous measurement off (other than free-run). With a delay of 10 ms, TC on, comparator on, OVC off, and averaging off. Measurement speed varies with the selected range and settings. For more information, please see the Instruction Manual.

■Measurement time (RM3544)

RM3544

Measurement speed			
FAST		MED	SLOW
50Hz	60Hz		
21	18	101	401

Unit: ms, Tolerance: ±10% ±2 ms

* With TC set to ON and the comparator set to ON

Model Configurations and Options

Model : RESISTANCE METER RM3545

Model No. (Order Code)	(Note)
RM3545	
RM3545-01	(with GP-IB interface)
RM3545-02	(support for the multiplexer unit)

Accessories: Power cord ×1, Clip type lead L2101 ×1, temperature sensor Z2001 ×1, Male EXT. I/O connector ×1, Instruction manual ×1, Application disc ×1, USB cable (A-to-B type) ×1, Spare fuse ×1

Model : RESISTANCE METER RM3544

Model No. (Order Code)	(Note)
RM3544	(No interfaces)
RM3544-01	(with EXT I/O, RS-232C, USB)

Accessories: [RM3544] Power cord ×1, Clip type lead L2101 ×1, Instruction manual ×1, Spare fuse ×1, [RM3544-01] Power cord ×1, Clip type lead L2101 ×1, Male EXT. I/O connector ×1, Instruction manual ×1, Application disc ×1, USB cable (A-to-B type) ×1, Spare fuse ×1

Caution when considering the use of probes without guard terminals

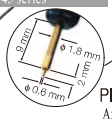
Proper operation of the RM3545 and RM3544 is not guaranteed when using test leads (test probes) that lack guard terminals, for example test leads used with models such as the Resistance HiTester 3541 or mΩ HiTester 3540. Please use the test leads indicated in the RM3545 and RM3544 accessory and option documentation.

Options

*The L2101 is bundled with the RM3545/RM3544 series, the Z2001 is bundled with the RM3545 series

Measurement Leads / Input scanner

CLIP TYPE LEAD L2101
A: 250 mm (9.84 in), B:84 mm (3.31 in), L:1.5 m (4.92 ft)



PIN TYPE LEAD L2102
A: 250 mm (9.84 in), B:178 mm (7.01 in), L:1.5 m (4.92 ft)

PIN TYPE LEAD L2103
A: 250 mm (9.84 in), B:176 mm (6.93 in), L:1.5 m (4.92 ft)

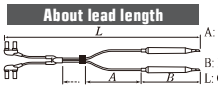
4 -TERMINAL LEAD L2104
A: 280 mm (11.02 in), B:149 mm (5.87 in), L:1.5 m (4.92 ft)

TEMPERATURE SENSOR Z2001
1.75 m (5.74 ft) length

Z2001: Bundled accessory for the RM3545 series

LED COMPARATOR ATTACHMENT L2105
2 m (6.56 ft) length

About lead length



A: From junction to probe
B: Probe length
L: Overall length

Note: For L2101 to L2104, length "A" can be extended by roughly 1.1 m (3.61 ft) by cutting the binding tube.

for RM3545-02

MULTIPLEXER UNIT Z3003
4-wire 10ch or 2-wire 21ch input scanning

PC Communication

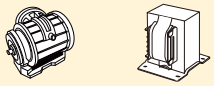
*The 9151-02 is only for the RM3545-01

RS-232C CABLE 9637
For the PC, 9pin - 9pin, cross, 1.8m (5.91 ft) length

GP-IB CONNECTOR CABLE 9151-02
2m (6.56 ft) length

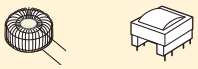
Related products

■ Large motors, large transformers



■ Vehicle grounding lines, conductivity of aircraft fuselages

■ Temperature rise tests (Motors, choke coils, transformers)



High-accuracy portable resistance meter
measures from μΩ to MΩ

RESISTANCE METER RM3548

Basic accuracy : **0.02%**
Max. resolution : **0.1μΩ**
Max. measurable current : **1A**

- **Measure from 0.0 μΩ (@ 1 A) to 3.5 MΩ**
- **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.**

For more information, please visit http://www.hioki.com.

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