

**Luminous scales**

**HIOKI**

3451 (Single range)

3452 (3 ranges)

**MΩ HiTESTER**

Field measuring instruments



# Compact analog MΩ meter



Actual-size



ISO14001  
JQA-E-90091



<http://www.hioki.co.jp/>

HIOKI company overview, new products, environmental considerations and other information are available on our website.

Easily held in one hand  
Energy-saving design

## ■ 3451 specifications Measurement ranges (23°C±5°C, 90 %rh. or less, no condensation)

Model	3451 -11	3451 -12	3451 -13	3451 -14	3451 -15
Insulation test voltage	125V DC	250V DC	500V DC	500V DC	1000V DC
Effective max. indication	20MΩ	50MΩ	100MΩ	1000MΩ	2000MΩ
Tolerance *1	±5% of indicated value				
Voltage with no load	Not more than 1.2 times rated voltage				
Min. resistance measurement value *2	0.125MΩ	0.25MΩ	0.5MΩ	1MΩ	2MΩ
Short-circuit current	1.2mA max.			0.6mA max.	
Center indication value	0.5MΩ	1MΩ	2MΩ	20MΩ	50MΩ
Response times	∞ to center, ∞ to 0 MΩ within 3 seconds				
AC voltage scale Tolerance	0 to 250V	0 to 300V	0 to 500V		
	±5% of maximum scale value				
Transient voltage protection, 10 seconds	300V AC	360V AC	600V AC		1200V AC
Max. rated power	3VA (for battery check)				

\*1 This is the tolerance for the first effective range. For the second effective range the value is ±10% of the indication. For 0 and infinity the tolerance is 0.7% of the scale length

\*2 Resistance value to maintain rated voltage.

## ■ 3452 specifications Measurement ranges (23°C±5°C, 90 %rh. or less, no condensation)

Model	3452 -11			3452 -12			3452 -13		
Insulation test voltage	25V DC	50V DC	100V DC	125V DC	250V DC	500V DC	250V DC	500V DC	1000V DC
Effective max. indication	10MΩ	10MΩ	20MΩ	20MΩ	50MΩ	100MΩ	50MΩ	100MΩ	2000MΩ
Tolerance *1	±5% of indicated value								
Voltage with no load	Not more than 1.2 times rated voltage								
Min. resistance measurement value *2	0.025MΩ	0.05MΩ	0.1MΩ	0.125MΩ	0.25MΩ	0.5MΩ	0.25MΩ	0.5MΩ	2MΩ
Short-circuit current	1.2mA max.								0.6mA MAX.
Center indication value	0.2MΩ	0.2MΩ	0.5MΩ	0.5MΩ	1MΩ	2MΩ	1MΩ	2MΩ	50MΩ
Response times	∞ to center, ∞ to 0 MΩ within 3 seconds								
AC voltage scale Tolerance	0 to 150V			0 to 500V					
	±5% of maximum scale value								
Transient voltage protection, 10 seconds	200V AC			600V AC			1200V AC		
Max. rated power	3VA (for battery check)								

\*1 This is the tolerance for the first effective range. For the second effective range the value is ±10% of the indication. For 0 and infinity the tolerance is 0.7% of the scale length

\*2 Resistance value to maintain rated voltage.

## ■ 3451, 3452 common specifications

Battery check function: Battery voltage OK if needle in "BATT CH" range

Discharge function: Discharges capacitance charge of tested item

Safety Standards: EN 61010

EMC Standards: EN 61326

Operating temperature range: 0 to 40 °C, 90 %rh. or less  
(no condensation)

Storage temperature range: -20 to 50 °C, 90 %rh or less  
(no condensation)

Insulation resistance: 100 MΩ minimum at 1000 V DC; electrical circuits and outer case

Withstand voltage: 7.4 kV AC(50/60Hz, 1 minute); electrical circuits and outer case

Power supply: R6P/AA manganese batteries X4

Dimensions and mass: 152 WX95 HX47 Dmm · approx. 420 g

Accessories: 9384 CARRYING CASE X1

9292 TEST PROBE X1

## Accessories



Lead length approx. 1.2 m

9292 TEST PROBE



9384 CARRYING CASE

## Options



Lead length approx. 1.2 m

9293 PIN-TYPE EARTH PROBE



\* 9288 BREAKER PIN

\*No CE marking

# HIOKI

HIOKI E. E. CORPORATION

### HEAD OFFICE :

81 Koizumi, Ueda, Nagano, 386-1192, Japan  
TEL +81-268-28-0562 / FAX +81-268-28-0568  
E-mail: os-com@hioki.co.jp

### HIOKI USA CORPORATION :

6 Corporate Drive, Cranbury, NJ 08512 USA  
TEL +1-609-409-9109 / FAX +1-609-409-9108  
E-mail: hioki@hiokiusa.com

### Shanghai Representative Office :

1704 Shanghai Times Square Office  
93 Huaihai Zhong Road  
Shanghai, 200021, P.R.China  
TEL +86-21-6391-0090, 0092  
FAX +86-21-6391-0360  
E-mail: hioki-sh@81890.net

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