

HIOKI

DIGITAL MΩ HiTESTER

3454-11, -51(3-range), 3454-10 (4-range)

Field measuring instruments



with
200mA
continuity

Insulation Testing- The Next Generation



ISO 9001
JMI-0216



ISO 14001
JQA-E-90091



www.hioki.com

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



3454-51
No CE marking



3454-10

3-range or 4-range INSULATION & CONTINUITY 200 mA

New!
Sliding Cover
System



Insulation measurement through sight and sound!

The reference value is set separately for each measurement range.

Function	Reference value (3454-11 & 3454-51)
Insulation	250 V/500 V --- 0.2/0.4/0.5/1/2/3/5/10/20/30/50/100/200 (MΩ)
	1000 V --- 1/2/3/5/10/20/30/50/100/200/500/1000/2000 (MΩ)
Continuity	0.5/1/2/3/4/5/6/10/20/30/50/100/200/1k (Ω)

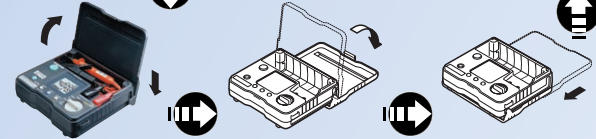
Insulation Ω: Meas. value < Ref. value ⇨ FAIL, Ref. value ≤ Meas. value ⇨ PASS
Continuity: Meas. value ≤ Ref. value ⇨ PASS, Ref. value < Meas. value ⇨ FAIL
Buzzer can be set to sound on either PASS or FAIL

Ex. Insulation resistance

Buzzer on FAIL at 20 MΩ or less

Ex. Continuity

Buzzer on PASS at 10 Ω or less



Compact storage without disconnecting test probes

Back-lighting liquid crystal display for easy reading in dark areas.

Checks ground wire continuity with a short current of 200 mA

Also capable of testing the continuity of electrical facility grounds in accordance with IEC 60364.

3454 series specifications Accuracy at 23°C±5°C (73°F±9°F), 90 % rh or less

MODEL	3454-11 & 3454-51			3454-10			
Insulation test voltage	250 V DC	500 V DC	1000 V DC	50 V DC	125 V DC	250 V DC	500 V DC
Measurement range*1	4.000 / 40.00 / 400.0 / 500 / 4000(1000 V range only) MΩ			4.000 / 40.00 / 200.0 MΩ		4.000 / 40.00 / 400.0 / 2000 MΩ	
1st effective range	0.200 to 50.0 MΩ		0.200 to 200.0 MΩ	0.200 to 10.00 MΩ		0.200 to 100.0 MΩ	
2nd effective range	0 to 0.199 / 50.1 to 500 MΩ		0 to 0.199 / 200.1 to 4000 MΩ	0 to 0.199 / 10.01 to 200.0 MΩ		0 to 0.199 / 100.1 to 2000 MΩ	
Accuracy	1st effective range: ±3 %rdg. ±4 dgt. / 2nd effective range: ±5 %rdg. ±5 dgt.						
Voltage with no load	Not more than 1.2 X rated measurement voltage						
Short circuit current	1.2 mA max.						
Response time	∞ to center, ∞ to 0 MΩ within 5 s (within accuracy range)						
Low resistance (continuity)	Measurement range: 40.00 / 400.0 / 4.000 k / 40.00 k / 400.0 k / 4.000 MΩ Short circuit current: 200 mA Accuracy: ±3 %rdg. ±6dgt. (±5 %rdg. ±6dgt. at 400 kΩ range or higher), Open terminal voltage: 4 to 6 V, Response time: 5 s max.						
AC voltage	Display indication range: 0 to 750 V, Accuracy: ±3 %rdg. ±6 dgt.(up to 600V), Frequency range: 50 / 60 Hz, Input impedance: 100 kΩ						

● Other functions: Insulation and low resistance mode - comparator, measurement value hold; Insulation resistance mode - auto discharge; Insulation and AC voltage mode - live wire warning (when voltage of 70V ±10V exists across measurement terminals); Low resistance mode - zero adjust; All measurement modes - battery indicators, auto power save ● Display: Semi-transparent LCD, "4000" count ● Display update rate: 2 times / second ● Load protection(10 s): Insulation resistance mode - 600 Vrms (1000 V range; 1200 Vrms); AC voltage mode - 800 Vrms; Low resistance / continuity mode - 600 Vrms(fuse protection) ● Safety standard: EN61010 CAT III 600 V ● EMC standard: EN61326 ● Ambient temperature range for use: 0 to 40°C (32°F to 104°F), 90% rh or less (no condensation) ● Ambient temperature range for storage: -20 to 50°C (-4°F to 122°F), 90% rh or less (no condensation) ● Power source: R6P manganese battery X 4 or LR6 alkaline battery X 4 ● Dimensions and Mass: Approx. 175 (6.9") W X 148 (5.9") H X 56 (2.3") D mm; Approx. 530 g (18.7 oz.) (with display cover closed)

DIGITAL MΩ HiTESTER 3454-11, 3454-10

(Includes TEST PROBE 9294 and Strap band)

*DIGITAL MΩ HiTESTER 3454-51

(Includes *TEST PROBE 9289, *Alligator clips and Strap band) *No CE marking

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DISTRIBUTED BY

Accessories

for 3454-11, -10



Lead length approx. 1.2 m (47.2")

TEST PROBE 9294

Options



* BREAKER PIN 9288
To be attached on top of 9294 (Red)

for 3454-51



Lead length approx. 1.2 m (47.2")

* TEST PROBE 9289
with attachable alligator clips



Lead length approx. 1.3 m (51.1")

CONNECTION CORD 9257

*No CE marking