

IR4057 - 1kV Insulation Tester (5 Range)

Quick Response Comparator Offering Reading Stability in High-speed Digital Format

Rating: Not Rated Yet

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Manufacturer [Hioki](#)

Description

Overview

Hioki insulation testers or megohmmeters feature all-in-one designs including built-in rugged cases and test lead storage compartments. The IR4057 is a 5-range, 50V to 1000V digital insulation resistance tester with bargraph, and delivers efficient functions and features to help shorten work time associated with field insulation testing. CAT III 600 V

Key Features

- 5-range testing voltage of 50 V/100 M Ω to 1000 V/4000 M Ω
- Digital bar graph
- Stable & high-speed digital readings, 0.3 second response time for PASS/ FAIL decisions
- Drop proof onto concrete from 1m (3.28 feet)
- Bright LED, luminous LCD, test lead with bright LED lamp to illuminate near hand (Option L9788-11 or L9788-10)
- Continuity check via 200 mA testing
- Built in AC/DC voltage meter, useful for testing solar power generation systems and electric vehicles

Specification:

Rated output voltage	50 V DC	125 V DC	250 V DC	500 V DC	1000 V DC
Effective maximum	100 M Ω	250 M Ω	500 M Ω	2000 M Ω	4000 M Ω

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indicated value					
Accuracy 1st effective measuring range M?	±2 % rdg. ±2 dgt. 0.200 - 10.00	±2 % rdg. ±2 dgt. 0.200 - 25.0	±2 % rdg. ±2 dgt. 0.200 - 50.0	±2 % rdg. ±2 dgt. 0.200 - 500	±2 % rdg. ±2 dgt. 0.200 - 1000
Lower limit resistance	0.05 M?	0.125 M?	0.25 M?	0.5 M?	1 M?
Overload protection	600 V AC (10s)				660 V AC (10s)
DC voltage range	4.2 V (0.001 V resolution) to 600 V (1 V resolution), 4 ranges, Accuracy: ±1.3% rdg. ±4 dgt., Input resistance: 100 k? or higher				
AC voltage range	420 V (0.1 V resolution) / 600 V (1 V resolution), 2 ranges, 50/60 Hz, Accuracy: ±2.3% rdg. ±8 dgt., Input resistance: 100 k? or higher, Average rectifier				
Low resistance range	For checking the continuity of ground wiring, 10 ? (0.01 ? resolution) to 1000 ? (1 ? resolution), 3 ranges, Basic accuracy: ±3 % rdg. ±2 dgt., testing current 200 mA or more (at 6 ? or less)				
Display	Semi-transmissive FSTN LCD with back lighting, bar-graph indicator				
Response time	Approx. 0.3 second for PASS/FAIL decision (based on in-house testing)				
Other functions	Indicate M? measurement value after a lapse of one minute, Live circuit indicator, Automatic electric discharge, Automatic DC/AC detection, Comparator, Drop proof, Auto power save				
Power supply	LR6 (AA) alkaline batteries × 4, Continuous use: 20 hours (based on in-house testing) Number of measurements: 1000 times (at 5 s ON, 25 s OFF cycle, insulation measurement of lower limit resistance value to maintain nominal output voltage)				
Dimensions and mass	159 mm (6.26 in) W × 177 mm (6.97 in) H × 53 mm (2.09 in) D, 640 g (22.6 oz) (including batteries, excluding test leads)				
Accessories	Test Lead L9787 ×1, Neck strap ×1, Instruction manual ×1, LR6 (AA) alkaline batteries ×4				