



HIOKI 3453 DIGITAL MΩ HITESTER

Field measuring instruments



- 125 V/ 40MΩ
- 250 V/2000 MΩ
- 500 V/2000 MΩ
- 1000 V/4000 MΩ

4 ranges

Insulation resistance measurement



For general-purpose measurement

Insulation resistance, AC voltage, low resistance (continuity) measurement



ISO 9001
JMI-0216

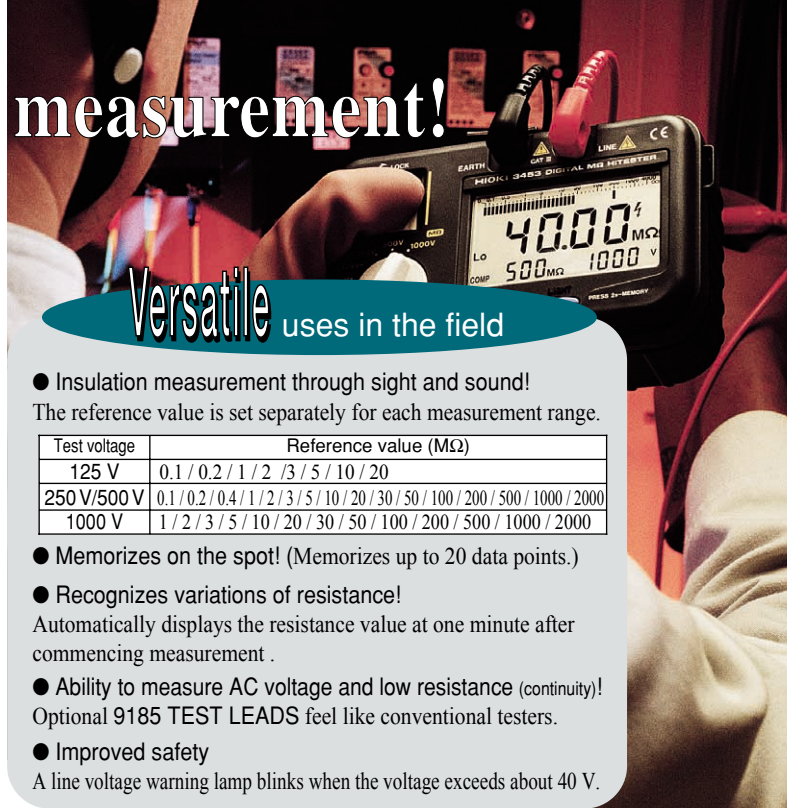


ISO14001
JQA-E-90091



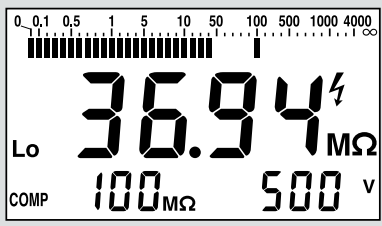
For efficient insulation measurement!

Myriad functions for various measurement needs.



Accurate digital display

Moving-average processing (averaging for two seconds) suppresses dispersion of display, ensuring more accurate and stable measurement. The logarithmic scale bar graph display from 0 to 4000 MΩ offers the feel of an analog meter. The bar graph displays the voltage level of the object being measured, showing either that the object is at a line voltage or how the object



discharges after being charged during measurement.

Back-lighting liquid crystal display enables reading in dark areas.

Versatile uses in the field

- Insulation measurement through sight and sound! The reference value is set separately for each measurement range.

Test voltage	Reference value (MΩ)
125 V	0.1 / 0.2 / 1 / 2 / 3 / 5 / 10 / 20
250 V/500 V	0.1 / 0.2 / 0.4 / 1 / 2 / 3 / 5 / 10 / 20 / 30 / 50 / 100 / 200 / 500 / 1000 / 2000
1000 V	1 / 2 / 3 / 5 / 10 / 20 / 30 / 50 / 100 / 200 / 500 / 1000 / 2000

- Memorizes on the spot! (Memorizes up to 20 data points.)
- Recognizes variations of resistance! Automatically displays the resistance value at one minute after commencing measurement.
- Ability to measure AC voltage and low resistance (continuity)! Optional 9185 TEST LEADS feel like conventional testers.
- Improved safety A line voltage warning lamp blinks when the voltage exceeds about 40 V.

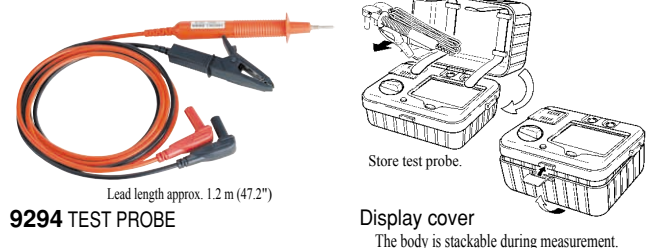
3453 specifications Accuracy at 23°C±5°C (73°F±9°F), 90 % rh or less

Insulation resistance	Insulation test voltage	125 V DC	250 V DC	500 V DC	1000 V DC	
	Measurement range*1	4.000 / 40.00 MΩ				4.000 / 40.00 / 400.0 / 2000 / 4000 (1000V range only) MΩ
	First effective range	0.100 to 10.00 MΩ	0.200 to 20.00 MΩ	0.200 to 50.00 MΩ	0.200 to 999 MΩ	
	Second effective range	0 to 0.099 MΩ 10.01 to 40.00 MΩ	0 to 0.199 MΩ 20.01 to 2000 MΩ	0 to 0.199 MΩ 50.01 to 2000 MΩ	0 to 0.199 MΩ 1000 to 4000 MΩ	
	Accuracy	First effective range: ±2%rdg. ±3 dgt. Second effective range: ±2 %rdg. ±6 dgt. (0 to first effective range), ±5 %rdg. (more than first effective range)				
	Voltage with no load	Not more than 1.2 times rated measurement voltage				
	Min. resistance measurement value*2	0.125 MΩ	0.250 MΩ	0.500 MΩ	2.000 MΩ	
	Short circuit current	1.2 mA max.			0.6 mA max.	
Response time	∞ to center, ∞ to 0 MΩ within 5 s (within accuracy range)					
Low resistance (continuity)	Measurement range: 0 to 400.0 Ω, aural warning below 30 Ω Accuracy: ±2% rdg. ±8dgt. Open terminal voltage: 4 V max. Response time: 2 s max.					
AC voltage	Measurement range: 0 to 600 V Accuracy: ±2% rdg. ±8dgt. Frequency range: 50 to 60 Hz Input impedance: 170 kΩ					

●Functions: Insulation resistance mode; comparator, memory (20 data), measurement value hold, auto discharge, bar graph display (measure switch ON: insulation resistance; measure switch OFF: voltage across measurement terminals), auto display of measurement value 1 minute after measurement start, other measurement modes, live wire warning (when voltage of 40 V± 20 V exists across measurement terminals), battery indicators, auto power save ●Display: semi-transparent LCD, "4000" count, with backlight, bar graph 30 dots ●Display update rate: 2 times / second ●Load protection: 10 s: 600 Vrms (AC V range 720 Vrms) ●Safety standard: EN61010-1 measurement category III 600 V ●EMC standard: EN61326-1 ●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 × 4 or LR6 alkaline battery × 4 ●Dimensions and Mass: Approx. 155 (6.1") W × 98 (3.9") H × 80 (3.2") D mm; Approx. 500 g (17.7 oz.) (with display cover attached)

*1. Measurement range shifts automatically. *2. Resistance value to maintain rated voltage.

Accessories



9294 TEST PROBE

Display cover The body is stackable during measurement.

Options



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

9289 TEST PROBE

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(All include 9294 TEST PROBE, display cover and suspension band)

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