



INSULATION **TESTERS**

Digital

DROP PROOF



Built tough to withstand a 1-meter drop onto a concrete floor



5 ranges

Rated output voltage (DC) Effective maximum indicated value

 $50 \text{ V} / 100 \text{ M}\Omega$

125 V / 250 MΩ

250 V / 500 MΩ

500 V / 2000 MΩ

1000 V / 4000 MΩ

Manage measurement data using Bluetooth® communication



Z3210 (Option)

Attach to enable Bluetooth® wireless technology



Transport to the Excel® file





Open an Excel® file and select a cell. The measured value being held on the instrument's display will be transferred to the computer and entered into the selected cell.

Transport to GENNECT Cross



Cloud

Mail



CSV Measurement data

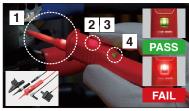
JPG Image data



> 20.0 MO

GENNECT Cross, a free app designed specifically for use with Hioki measuring instruments, lets you check and manage measurement results and create reports. The software provides a range of functionality that helps manage data in the field, including photographing measurement sites, placing measurement results on photographs, and saving handwritten memos.

Significantly improve testing speed using test lead with remote switch



- 1 LED light shines a spotlight on the target
- 2 Red light warns of live voltage detection
- 3 Measurement start switch
- 4 Identify pass/fail decisions with red or green light

TEST LEAD SET WITH REMOTE SWITCH L9788-11 (Option) *Standard with the IR4056-21, Not CE Marked

Identify PASS / FAIL using light and sound



Compare measured values to pre-set reference values to generate a pass or fail decision with the Comparator function.

Convenient for inspections

Low resistance measurement¹

Perform EV and HEV continuity checks as well as resistance measurement of protective conductors in facility electrical equipment as defined by IEC 60364.

AC/DC voltage measurement

Automatically detect AC or DC for testing. Use as a tester thanks to DC voltage measurement functionality.

PV Ω dedicated function²

Measurement is not affected even when the PV system is online.

1. Excludes IR4053 2. IR4053 Only

One-touch Start and Stop



Measurement voltage is applied while MEASURE key is pressed

Continuous test

Lift and lock the MEASURE key to apply a continuous stream of voltage

Prevent Accidental High Voltage Generation





Under [500V], [1000V], or [PV Ω] settings, the RELEASE button will blink. Press to unlock the release of high voltages as an extra safety meaure.



Lineup - Digital

Lineup - D	igitai		Accuracy guaranteed for 1 year				
Measurement type		Low voltage (le	High voltage (less than 5000 V)				
Measurement type	Standard High-speed		EV	P	v	Standard	
Model	IR4056-20 IR4056-21	IR4057-50	IR4059	IR4053-10	IR5051	IR5050	
Appearance	MODE	And	New		New	New	
Number of ranges	5				5		
Testing voltage (DC) / Effective maximum indicated value	50 V /100 MΩ 125 V /250 MΩ 250 V /500 MΩ 500 V /2000 MΩ 1000 V /4000 MΩ				250 V /500 GΩ 500 V /1.00 TΩ 1000 V /2.00 TΩ 2500 V /5.00 TΩ 5000 V /10.00 TΩ		
PV Ω measurement	N/A			500 V / 2000 MΩ 1000 V / 4000 MΩ	500 V /100 GΩ 1000 V /100 GΩ 1500 V /100 GΩ	N/A	
Leakage current measurement	N/A				0.00 nA to 3.00 mA		
DC voltage measurement	600 V			1000 V	2000 V		
AC voltage measurement	600 V				1000 V		
Low resistance measurement	V			N/A	N/A		
Displaying 1-min. values	N/A	<i>v</i>		N/A	V		
Comparator decision response time	0.8 second	0.3 second		0.8 second (PV : 4 second)	V		
AUTO power save	V			<i>V</i>			
Bluetooth® communication	N/A	✓ (With Z3210)		N/A	✓ (With Z3210)		
Resistance gauge	N/A	•		N/A	V		
Backlight		•	v				
Safety standard category		CAT II	CAT IV 1000 V CAT III 2000 V				
CE		•	V				
Dustproof and waterproof		IP-	IP40 ^{2, 3} , IP65 ⁴				
Drop proof		•	N/A				
Power supply		LR03 (AAA) alk HR6 (AA) NiMH rec	LR6 (AA) alkaline battery × 8 HR6 (AA) NiMH rechargeable battery x8				
Dimensions (W × H × D)	159 × 177 × 53 mm 6.26 × 6.97 × 2.09 in. 160 × 98 × 46 mm 6.30 × 3.86 × 1.81 in.			159 × 177 × 53 mm 6.26 × 6.97 × 2.09 in.	195 × 254 × 89 mm 7.68 × 10 × 3.50 in.		
Weight	600 g (21.2 oz)	640 g (22.6 oz)	536 g (18.9 oz)	600 g (21.2 oz)	1.7 kg (59.97 oz)		

 $^{{\}tt 1: IR4056-21 \ excluded \ 2: Terminal \ not \ included \ 3: With \ protector \ attached \ 4: CARRYING \ CASE \ CO212}$

HIGH VOLTAGE INSULATION TESTER IR5050, IR5051

CE Product warranty for 3 years Accuracy guaranteed for 1 year



5 ranges

For PV systems

CAT IV 1000 V, CAT III 2000 V

IR5050 Order code

Order code

IR5051 IR5051-90 Order code

Included accessories



L9850, L9851

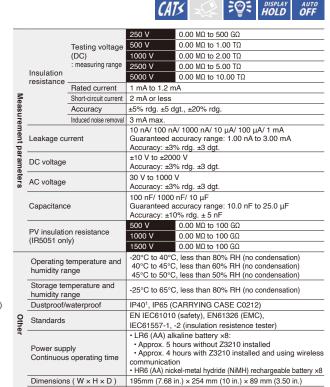
Start:

Complete:

Press and hold for 1 sec

- TEST LEAD L9850-01 (Red), -02 (Black), -03 (Blue), 3 m (9.84 ft.)
- ALLIGATOR CLIP L9851-01 (Red), -02 (Black) ,-03 (Blue) CARRYING CASE C0212
- LR6 alkaline battery ×8
 - Instruction manual
 - TEST PIN SET L9852 (IR5051 and IR5051-90 only)
 WIRELESS ADAPTER Z3210 (IR5051-90 only)

1. With protector attached, excluding terminals



Accurate, easy-to-use insulation resistance meter

Step voltage

Ramp voltage



and leakage current After measurement: Insulation indexes (PI, DAR, DD) and capacitance can be

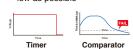
voltage, insulation resistance

Weight

Failures caused by the application of a high voltage can be prevented.

displayed.

Keep the applied voltage as low as possible



Precision stability in high voltage insulation testing

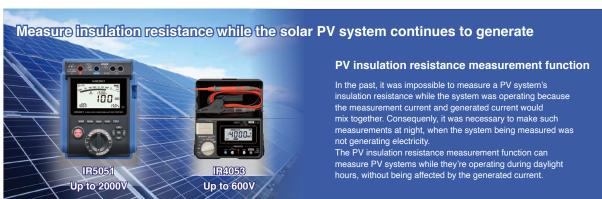


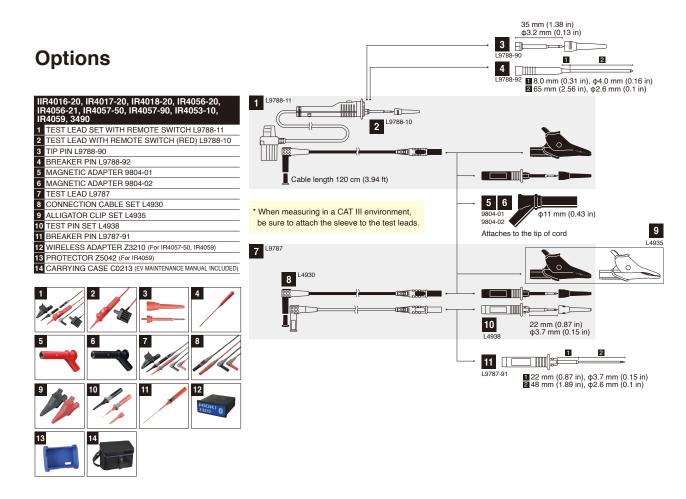
Wireless communication for even greater convenience











IR5050, IR5051		1,4	2,5	3,6	7	8
1 TEST LEAD L9850 -01	Red, 3 m (9.84 ft.)					
2 TEST LEAD L9850 -02	Black, 3 m (9.84 ft.)		111			
3 TEST LEAD L9850 -03	Blue, 3 m (9.84 ft.)					
4 TEST LEAD L9850 -11	Red, 10 m (32.81 ft.)			<u> </u>		
5 TEST LEAD L9850 -12	Black, 10 m (32.81 ft.)	9	10	11	12	13
6 TEST LEAD L9850 -13	Blue, 10 m (32.81 ft.)					100
7 ALLIGATOR CLIP L9851 -01	Red			HIOKI	HIOKI D	
8 ALLIGATOR CLIP L9851 -02	Black					
9 ALLIGATOR CLIP L9851 -03	Blue					
10 TEST PIN SET L9852	Red and black					
11 CARRYING CASE C0212						
12 WIRELESS ADAPTER Z3210						
13 COMMUNICATION PACKAGE DT490	00-01 USB					



HEADQUARTERS

Note: Company names and product names appearing in this brochure are trademarks or registered trademarks of various companies.

DISTRIBUTED BY

All information correct as of May 10, 2024. All specifications are subject to change without notice.

series_insulationtesters_E8-45B

