













AC/ DC automatic detection range



Model IR4057-20

NEW

Built in Bluetooth® Smart

Model **IR4058-20**



Model IR4056-21

Comparator Function Improves Work Efficiency

- · Identify the Insulation and Low Resistance Conditions with the PASS/ FAIL Icon
- FAIL Alert with Red LCD and Audio Buzzer

Stable Digital Readings are Easy to Read





LIGHT







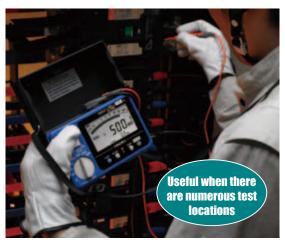
Make measurements safely and efficiently with a digital insulation resistance meter

Comparator function provides PASS/ FAIL decisions at a glance

- Compare measured values to pre-set reference values to generate a pass or fail judgment with the Comparator function. (also pair with insulation resistance measurement and low-resistance measurement)
- Stable display delivers guick and easy-to-read results, increasing work efficiency.

Instantaneous judgment

The insulation testers deliver results as soon as the test lead makes contact, letting you finish your work rapidly similar to a continuity check.



In some cases, the capacitance component may prevent a judgment from being made until charging completes.

Identify PASS/FAIL using light and sound

The insulation testers give you pass/ fail results using a beeping sound, LCD light, and indication right on the test lead with remote control switch*1, letting you check for insulation integrity without needing to look at the instrument.

PASS

When the measured value is greater than or equal to the reference value*2

Short beep





When the measured value is less than the reference value*2

Continuous tone

- *1 Standard with the IR4056-21
- *2 Insulation resistance measurement



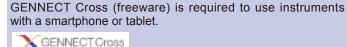




Smooth measurement and data recording with Bluetooth wireless technology

- Measured values held on the display are sent immediately to a smartphone or tablet via Bluetooth® Smart technology.
- Easily manage measured data and create simple PDF reports in the field.













GENNECT Cross specifications

Interface	Bluetooth® 4.0LE (Bluetooth® SMART)
Supported devices	iOS (iPhone®5, 3rd generation iPad®, iPad mini™, iPad Pro™, 5th generation iPod Touch® or later) Android™ (Only for Bluetooth® SMART READY or Bluetooth® SMART model)
Supported OS	iOS 8 or later, Android™ 4.3 or later

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Designed for safety and peace of mind Featuring improved convenience and ease of use

DROP PROOF



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

MEASURE key

Press to measure insulation resistance.

Release to hold the measured value.

AC/ DC voltage measurement (With AC/ DC automatic detection function)

Use as a tester replacement thanks to DC voltage measurement functionality, which is useful in applications involving solar power and electric vehicles (EVs).





200 mA grounding line continuity check function

The Insulation testers can perform EV and HEV continuity checks as well as resistance measurement of safety conductors in building electrical equipment as defined by IEC 60364.



Safety-oriented double-action

500 V/1000 V range only



Set the function key to either 500 V or 1000 V



Press the flashing "RELEASE" key.

..... Integrated hard case with sliding cover



Easy-to-see LCD

An FSTN LCD ensures the instrument's display is easy to read from any angle.

Backlight (White LED)

A backlight lets you work in dark or poorly lit locations



Effective maximum display value

A ">" mark is displayed when the measured value is greater than the effective maximum display value for the function in

Featuring Bluetooth® Smart (IR4058)

Bluetooth® Smart functionality can be switched on or off.







IR4056-20 | Economic model | IR4056-20: With L9787 IR4056-21

Economic model

IR4056-21: With L9788-11

(Not CE marked)

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1	
D WITH SWITCH	

Rated output voltage (DC)	5 ranges 50/125/250/500/1000 V
Voltage mea- surement	1
Low resistance measurement	1
Comparator judgment result response time	Approx. 0.3 s
200 mA continuity	1
Bar graph	1
Displaying 1-min.Values	1
Bluetooth® Smart	✓ (IR4058)
	voltage (DC) Voltage measurement Low resistance measurement Comparator judgment result response time 200 mA continuity Bar graph Displaying 1-min.Values

IR4057-20 Bar graph for visual judgments High-speed model IR4058-20



IR4057-20 IR4058-20 **Functionality**

TEST LEAD L9787



Bar graph

Useful in determining compliance of circuits with a large capacitance component, for example solar panels, due to the ability to illustrate charging status behavior.

Displaying 1-min.Values

The instruments automatically hold the measured value being displayed 1 min. after the start of measurement (the 1 min. value).

This functionality is convenient when you need to measure targets that include a capacitance component.

Insulation resistance measurement

Rated output voltage (DC)	50V	125V	250V	500V	1000V
Effective maximum indicated value	100 MΩ	250 MΩ	500 MΩ	2000 MΩ	4000 MΩ
1st effective measuring range $[M\Omega]$	0.200 to 10.00	0.200 to 25.0	0.200 to 50.0	0.200 to 500	0.200 to 1000
Accuracy	±2 % rdg. ±2 dgt.				
2nd effective measuring range $[M\Omega]$	10.1 to 100.0	25.1 to 250	50.1 to 500	501 to 2000	1010 to 4000
Accuracy	±5 % rdg.				
Other measuring range [M Ω]			0 to 0.199		
Accuracy	±2 % rdg. ±6 dgt.				
Lower limit resistance value to maintain nominal output voltage	0.05 ΜΩ	0.125 MΩ	0.25 ΜΩ	0.5 ΜΩ	1 ΜΩ

Test leads w	ith sleeves
When measuring i environment, be si sleeve to the test I When the CAT (me category) rating of lower than that of t CAT of the main ui dence.	eads. easurement the main unit is test leads, the
Sleeves can be removed.	1

Basic specifications

Zacio opcomoanono			
Indicator	Semi-transmissive FSTN LCD, Positive backlight		
Functions	Live circuit indicator, Automatic electric discharge, Automatic DC/AC detection, Comparator, Built-in battery power indicator etc.		
IR4057/ IR4058 functions	Bar graph, Displaying 1-min. values		
Power supply	LR6 alkaline battery × 4		
Continuous operating time	Approx. 20 hours (Comparator off, backlight off, 500 V range, no load, Bluetooth® off)		
Auto power save	The power will go off automatically 10 minutes after the last operation		
Operating temperature and humidity	-25 to 40°C (-13 to 104°F) 90% rh or lower (non-condensating) 40 to 65°C (104 to 149°F), at 65°C and below relative with linear decrease up to 25% rh		
Storage temperature and humidity	-25 to 65°C (-13 to 149°F) 90% rh or lower (non-condensating)		
Maximum rated voltage to earth	600 V AC/DC, Measurement category III, Anticipated transient overvoltage: 6000 V		
Dustproof and waterproof	IP40 (EN60529)		
Standards	EN61326 (EMC), EN61557-1/-2/-4*1/-10		
Drop proof	On concrete: 1 m		
Dimensions	Approx. 159W × 177H × 53D mm (6.26"W × 6.97"H × 2.09"D) (excluding protrusions)		
Mass	IR4056-20/ IR4056-21: Approx. 600 g (21.2 oz) IR4057-20/ IR4058-20: Approx. 640 g (22.6 oz) (including battery, excluding test lead)		

^{*1} Subclause 4.3 of Part 4 (interchanging of test leads) is not applicable when L9788-10 is used.

Voltage measurement

voltage measurement					
DC V	Display range (Auto range)	4.2 V	42 V	420 V	600 V
V	Accuracy	±1.3 % rdg. ±4 dgt. *2			
	Display range (Auto range)	420 V (Minimum indicated value: 30.0 V)		600	o v
AC V	Accuracy	±2.3 % rdg. ±8 dgt. *2			
	Measurement principles	Average responding type			
	Frequency range	50/ 60 Hz			
AC/ DC automatic detection range AC detected at 30 V or greater (50/ 60 Hz) (Pulsating currents with an overlapping AC corof 30 V or greater are detected as AC)					
	Effect of temperature		nt accuracy p e operating tempe	er 1°C × 0.1 rature range other	than 18 to 28°C)
	*2 P : CC00 V : 1 1				

^{*2} Ranges in excess of 600 V are outside the accuracy guarantee.

Low resistance measurement

Display range (Auto range)	10 Ω	100 Ω	1000 Ω
Maximum indicated value	10.00 Ω	100.0 Ω	1000 Ω
Resolution	0.01 Ω	0.1 Ω	1 Ω
	0 to 0.19 Ω: ±3dgt. 0.20 to 10.00 Ω: ±3%rdg. ±2dgt.	±3%rdg	±2dgt.
Measuring current	200 mA or more (at 6 Ω or less) (Display value before zero adjustment	:)	
Overload protection	600 VAC (10s, using fuse)		

Instrument

INSULATION TESTER

Model No. (Order Code) (Note)

IR4056-20 Economic model

IR4056-21 Economic model, Not CE marked

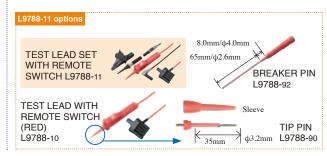
IR4057-20 High-speed model

IR4058-20 High-speed model, Built in Bluetooth® Smart

Options







Accessories (IR4056-20, IR4057-20, IR4058-20)

TEST LEAD L9787



Neck strap Instruction manual LR6 alkaline battery × 4

Accessories (IR4056-21)

TEST LEAD SET WITH REMOTE SWITCH L9788-11



Neck strap Instruction manual LR6 alkaline battery × 4

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