ΗΙΟΚΙ

INSULATION TESTER IR4056, IR4057, IR4058



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









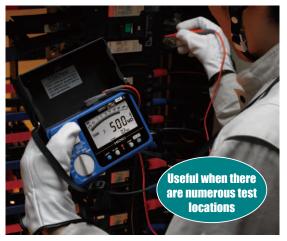
Make measurements safely and efficiently with a digital insulation resistance meter

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

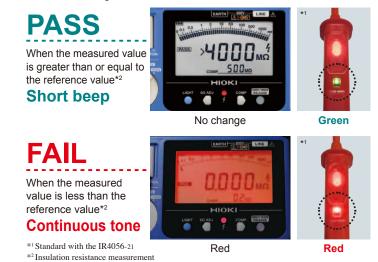
The insulation testers deliver results as soon as the test lead makes contact, letting you finish your work rapidly similar to a continuity check.



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



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.



Smooth measurement and data recording with **Bluetooth[®] wireless technology** IR4058-20 only

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



GENNECT Cross (freeware) is required to use instruments with a smartphone or tablet. GENNECT Cross Google pla App Store

GENNECT Cross specifications

Interface	Bluetooth® 4.0LE
Communication distance	5 m (line of sight)
Supported Android™ devices	Android [™] 4.3 or later (Bluetooth [®] low energy enabled devices)
Supported iOS devices	iOS 10.0 or later (Bluetooth [®] low energy enabled devices)

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

DROP PROOF



1..........

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









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 use.

Featuring Bluetooth® wireless technology (IR4058)

Bluetooth® wireless technology functionality can be switched on or off. Send data to a mobile device to be saved.



Economic model IR4056-20 Economic model IR4056-20: With L9787 **IR4056-**21 IR4056-21: With L9788-11 (Not CE marked)



(1			
	50/125/250/500/1000 V	Rated output voltage (DC)	5 ranges 50/125/250/500/1000 V
	1	Voltage mea- surement	1
	1	Low resistance measurement	1
	Approx. 0.8 s	Comparator judgment result response time	Approx. 0.3 s
	1	200 mA continuity	1
	-	Bar graph	1
, ,	-	Displaying 1-min.Values	1
TH CH	-	Bluetooth®	✓ (IR4058)

IR4058-20

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



IR4057-20 IR4058-20 **Functionality**



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.

Specifications Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year

Insulation resistance measurement

Rated output voltage (DC)	50 V	125 V	250 V	500 V	1000 V
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 $[M\Omega]$	0 to 0.199				
Accuracy	±2 % rdg. ±6 dgt.				
Lower limit resistance value to maintain nominal output voltage	0.05 MΩ	0.125 MΩ	0.25 MΩ	0.5 MΩ	1 MΩ

Test leads with sleeves

When measuring in a CAT III environment, be sure to attach the sleeve to the test leads. When the CAT (measurement category) rating of the main unit is lower than that of test leads, the CAT of the main unit takes precedence.

Sleeves can be removed.

Basic specifications

Dasic specifications				
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 I 0788 10 is use				

Voltage measurement

	C	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 V		ט ע	
	AC V	Accuracy	±2.3 % rdg. ±8 dgt. *2			
v	v	Measurement principles	Average responding type			
		Frequency range	50/ 60 Hz			
		/ DC automatic etection range	AC detected at 30 V or greater (50/ 60 Hz) (Pulsating currents with an overlapping AC component of 30 V or greater are detected as AC)			
		Effect of temperature	Measurement accuracy per $1^{\circ}C \times 0.1$ (Applicable to the operating temperature range other than 18 to 28°C)			
	*2 Pangas in avaass of 600 V are outside the accuracy guarantee				av guarantaa	

*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	1Ω
Accuracy (after zero adjustment)	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)		

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

Model : INSULATION TESTER IR4056 Model No. (Order Code) (Note) IR4056-20 (Economic model) IR4056-21 (Economic model, Not CE marked) Model : INSULATION TESTER IR4057 Model No. (Order Code) (Note)

(High-speed model) IR4057-20 Model : INSULATION TESTER IR4058 Model No. (Order Code) (Note) IR4058-20 (High-speed model, built in Bluetooth® wireless technology)

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

TEST LEAD L9787

Accessories (IR4056-21)

TEST LEAD SET WITH REMOTE

SWITCH L9788-11

Neck strap

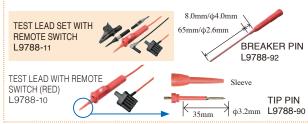
Instruction manual LR6 alkaline battery \times 4

Neck strap

Instruction manual LR6 alkaline battery × 4



L9787 options 22mm/q3.7mm 48mm/ф2.6mm **BREAKER PIN** L9787-91



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