



Quality and reliability is our tradition

KYORITSU

# INSULATION EARTH TESTER

## KEW 6041BT

### *Be released from test lead problems!*

#### *Three testing functions in a palm sized tester*

**INSULATION** 50/125/250/500 V

**2-pole EARTH** 200/2000 Ω

**VOLTAGE** 440 V AC/DC

- Possible to measure line voltage up to 440 V
- Small test current of 2 mA or less prevents unintentional RCD trip.  
(on EARTH function)
- Live circuit warning (on INSULATION and EARTH functions)
- Comparator function with audible warning
- Setting customization via app  
Enable/disable unnecessary functions or ranges.  
Any desired max displayed value and threshold  
value for comparator are selectable.
- Replaceable 4-type of metal tips are available.  
Standard, long, and molded metal tips (accessories)  
L-shaped probe useful in high place measurement (optional accessory)
- Bluetooth® communication  
Save the measured values in tablets or smartphones.



**TRUE RMS**



**KEW CONNECT**

Detailed explanation  
of the product is available  
on our website.



KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

[www.kew-ltd.co.jp](http://www.kew-ltd.co.jp)

## Insulation resistance measurement

- 4 ranges (50/125/250/500 V)
- Warning with red LCD backlight for high voltage 500 V range

### Auto-discharge function

Charged voltages are automatically discharged after measurement.

### Live circuit warning

Safety design-Audible warning and red LCD backlight indicate the measured voltage is higher than the reference value, and no measurement is performable.

### Comparator function

Audible warning and red LCD backlight indicate the measured voltage drops below the reference value.

(Reference value is changeable via special app.)

Rated voltage	50 V	125 V	250 V	500 V
Reference value	0.100 MΩ	0.100 MΩ	0.200 MΩ	0.400 MΩ

\*At the shipment



## Earth resistance measurement

- 200/2000 Ω Auto-ranging
- Small test current of 2 mA or less prevents unintentional RCD trip

### Live circuit warning

Audible warning and red LCD backlight indicate that the measured voltage is 30 V or higher; during this time, no measurement can be performed.



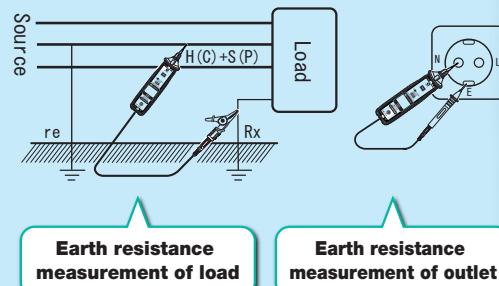
### Comparator function

Audible warning and red LCD backlight indicate that the measured voltage is higher than the reference value.

(Reference value is changeable via special app.)

#### Helpful method when auxiliary earth electrodes aren't able to be driven into the ground.

This is a simplified earth resistance tester and uses the existing earth systems (with a sufficiently low earth resistance) such as buried metal pipes like main water pipe, common earth for commercial power supply and a lightning electrode on buildings and performs measurements based on the 2-pole measurement method.



## Voltage measurement

- Measurable up to 440 V max.
- True RMS measurement even on distorted waveforms
- AC/DC auto-detection

### Illuminance sensor installed. Facilitates work in dimly lit areas.

- LED light and LCD backlight with automatic on/off function
- Glow-in-the-dark switches

Actual size



# With app! Increase efficiency! KEW Smart Advanced

## Real-time display and measured data save function



Display the measured value in real time



Enter comments in the measured data and files



Automatic save of location info



Save the measured data in CSV format



Send the data by mail and create report

## Report creation Measured values can be entered in the original Excel report template.

### Report creation

Possible to import forms in Excel format.



### Upper limit change of record value

Possible to change the upper limit of measured values to be entered in each cell: normally, ">200.0MΩ" but can be set to ">100.0MΩ" or ">10.0MΩ", etc.

### Fixed stocks

KEW6041BT #00000021

2025年10月8日

2025/10/08 2025 10/8

### Stock phrases

Model name and serial No. of the connected product and date info are automatically displayed: original item name can be registered.

### Auto input of measured values

Measured values are directly transferred to Excel.

Insulation resistance measurement		Inspector	K.Kyoritsu	Model	KEW6041BT	
		Date of Test	2025/10/08	Production No.	#00000021	
Measuring point		Measured value [MΩ]			Judgement	Remarks
Distribution panel 1-A		>200.0	>200.0	>200.0	>200.0	>200.0
						PASS
						Floor1
Breaker 3		>200.0	>200.0	>200.0		
Distribution panel 1-B						
Breaker 1						
Distribution panel 1-B						
						Floor2

### Text input function

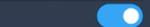
Any text can be entered.

### Input setting

Cursor movement



Auto data entry



Unit symbol

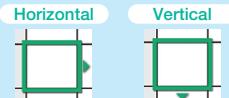


Data Hold



### Input setting

- Cursor movement direction after entering measured values or text can be selected.



- Turn on/off the auto input of measured values
- Turn on/off the auto input of unit symbol
- Data hold function

## KEW 6041BT setting changes Select a function to enable or disable, and change the reference values as needed.

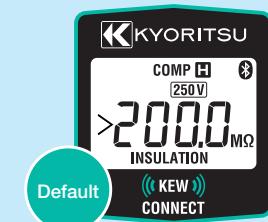
### Comparator function (for Insulation and Earth resistance)

Possible to turn ON/OFF comparator function or change threshold value for warning.

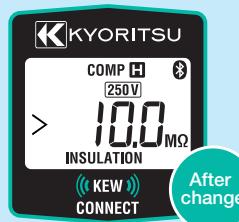
### Change of Maximum measurement display value

Maximum display value of voltage, insulation and earth resistance can be set to the desired value.

E.g.: Max resistance value on 250 V range for insulation resistance measurement is changed to 10 MΩ.



Default



After change

### Enable/Disable Setting Function

Prevent unintentional output on insulation ranges! Disable unnecessary features!

E.g.: Voltage measurement and 50 V and 500 V are disabled.



\*Even when the voltage function is turned off, voltage can be measured while the insulation and earth resistance functions are in stand-by mode.

### Quick reset of settings is possible.\*

Suddenly need to use any of the disabled feature, press the power switch with holding down the SELECT switch and restart it. This temporarily restores settings to the default. Reset is possible without using the app.

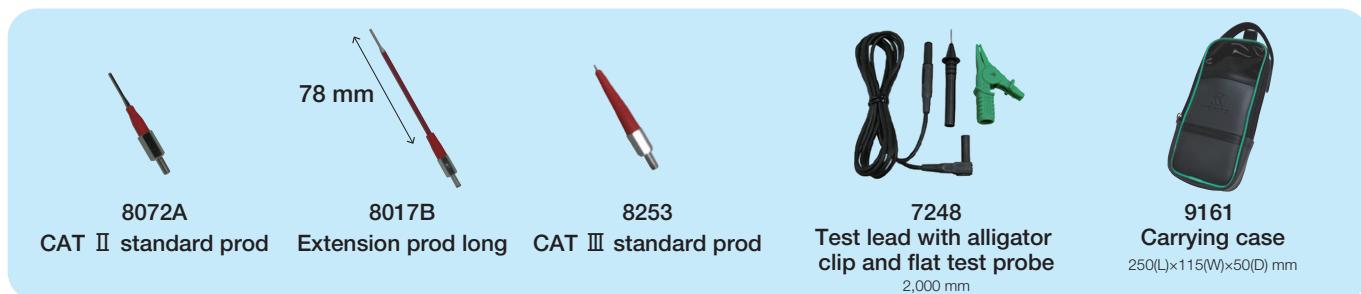
\*This is a temporary setting. To reset settings changed via the app and completely initialized (restore to factory default setting), extra operations are required.

## ● KEW 6041BT Specification

Insulation resistance					
Rated voltage	50 V	125 V	250 V	500 V	
First effective range	Measuring range	0.100 to 10.00 MΩ	0.100 to 25.0 MΩ	0.100 to 50.0 MΩ	0.100 to 100.0 MΩ
	Mid-scale value	1 MΩ	2 MΩ	2 MΩ	5 MΩ
	Accuracy	±2%rdg±2dgt			
Second effective range	Measuring range	0.050 to 0.099 MΩ			
	Accuracy	±2%rdg±4dgt			
	Measuring range	10.01 to 200.0 MΩ	25.1 to 200.0 MΩ	50.1 to 200.0 MΩ	100.1 to 200.0 MΩ
Other range	Accuracy	±5%rdg			
	Measuring range	0.000 to 0.049 MΩ			
Rated current	Accuracy	±2%rdg±6dgt			
		1.0 to 1.2 mA(at the following resistances)			
Open-circuit voltage		0.050 MΩ	0.125 MΩ	0.250 MΩ	0.500 MΩ
		100 to 120% of rated voltage			
Short-circuit current					
1.5 mA or less					
Earth resistance					
Measuring range(Auto-ranging)	200.0/2000 Ω				
Accuracy	±3%rdg±5dgt				
Output current	Approx. 1.6 mA(200 Ω range)/825 Hz, Approx. 0.7 mA(2000 Ω range)/825 Hz				

\* Some countries regulate the compliance with their Radio Law of the products equipped with Bluetooth®. Please confirm it with your distributor before purchasing our products equipped with Bluetooth®.  
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## ● Accessories



## ● Optional accessories



Measurement Data Management Application Supporting Android™ and iOS

**KEW Smart Advanced**



Android™ App

Download from Google Play Store for FREE.



iOS App

Download from App Store for FREE.

\* Please note that communication charge is incurred separately for downloading the applications. \* Please visit our website to check the supported versions of Android™ and iOS.  
\* Android™ is the trademark or registered trademark of Google LLC. \* iOS is the trademark or registered trademark of Cisco in the U.S. and other countries.  
\* Microsoft Excel is the registered trademark of Microsoft Corporation in the U.S. and/or other countries.

**Safety Warnings :** Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

## ■ For inquiries or orders :



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