



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.



AUTO POWER
OFF

Bluetooth



TRUE RMS



KEW
CONNECT

Detailed explanation
of the product is available
on our website.



KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

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

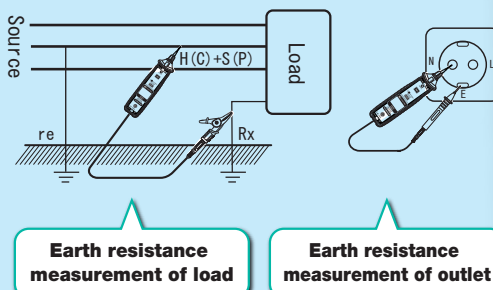
*At the shipment

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.



Earth resistance measurement of load

Earth resistance measurement of outlet

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

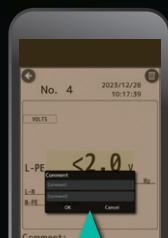


With app! Increase efficiency! KEW Smart Advanced

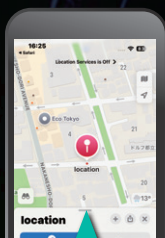
Real-time display and measured data save function



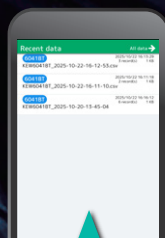
Display the measured value in real time



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.



Add forms



Delete forms

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.

Stock phrases

Fixed stocks

KEW6041BT #00000021
2025年10月 8日
2025/10/08 2025 10/8
User registered: PASS
FAIL

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

Input setting

Input setting

Cursor movement

Horizontal

Vertical

Auto data entry

Unit symbol

Data Hold

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

Horizontal

Vertical

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

Auto input of measured values

Measured values are directly transferred to Excel.

Text input function

Any text can be entered.

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

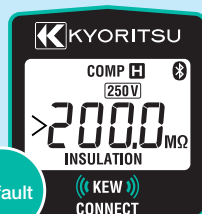
Comparator function (for Insulation and Earth resistance)

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

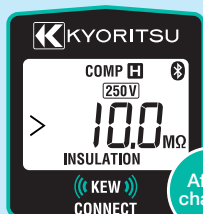
Change of Maximum measurement display value

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
Range(Auto-ranging)		2.000/20.00/200.0 MΩ			
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)			
		0.050 MΩ	0.125 MΩ	0.250 MΩ	0.500 MΩ
Open-circuit voltage		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®. Bluetooth® is a trademark or registered trademark of Bluetooth SIG. Inc.

Volt	
Measuring range	2.0 to 440.0 V AC/±2.0 to ±440.0 V DC (AC/DC auto-detection: 2 V or higher)
Accuracy	±1%rdg±4dgt AC/±1%rdg±8dgt DC
Applicable standards	IEC 61010-1, IEC 61010-2-030 CAT IV 150 V/CAT III 300 V Pollution degree 2 IEC 61010-2-034, IEC 61557-1,2,5,10, IEC 60529(IP40) IEC 61326-1, IEC 61326-2-2, IEC 61010-031
Communication interface	Bluetooth® 5.0 *
Operating temperature and humidity range	-10 to 50 °C, relative humidity 85% or less(no condensation)
Storage temperature and humidity range	-20 to 60 °C, relative humidity 75% or less(no condensation)
Power source	LR6(AA)(1.5 V) x 2
Dimension	232(L) x 51(W) x 42(D) mm(including the tip metal parts)
Weight	Approx. 230 g(including batteries)
Accessories	7248(Test lead with alligator clip and flat test probe) 8072A(CAT II standard prod), 8017B(Extension prod long) 8253(CAT III standard prod), 9161(Carrying case) Batteries, Instruction manual
Optional accessories	7296(L-shaped probe set), 9198(Carrying case for L-shaped probe)


● Accessories




8072A
CAT II standard prod




78 mm
8017B
Extension prod long



8253
CAT III standard prod



7248
Test lead with alligator clip and flat test probe
2,000 mm



9161
Carrying case
250(L)×115(W)×50(D) mm

● Optional accessories



7296
L-shaped probe set
1,650 mm



For housing L-shaped probe and unit
9198
Carrying case for L-shaped probe
326(L)×133(W)×89(D) mm

Auto-slide cover test prod

Black: 7313-BLK
Blue: 7313-BLU
Green: 7313-GRN
Red: 7313-RED
White: 7313-WHT

Connectable with φ4 plug of 7248

Visit our website for more information.



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 :

 **KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.**

2-5-20, Nakane, Meguro-ku, Tokyo, 152-0031 Japan
Phone:+81-3-3723-0131
Fax:+81-3-3723-0152

www.kew-ltd.co.jp

