



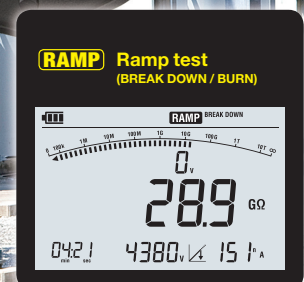
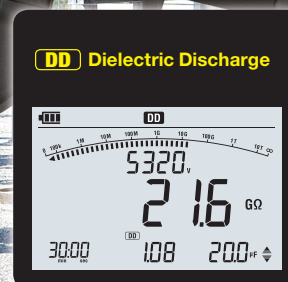
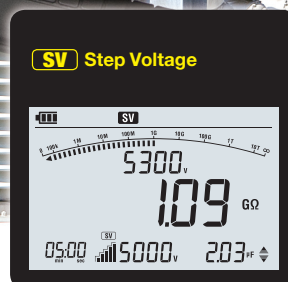
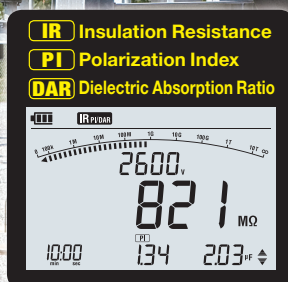
Quality and reliability is our tradition

**KYORITSU**

# Digital High Voltage Insulation Tester KEW 3127



**Equipped with the latest  
Diagnostic Insulation Test!**



- Insulation Resistance up to **10TΩ**
- Short-Circuit Current up to **5mA**
- Wide Test Voltage from **250 to 5000V**
- Diagnostic Insulation Tests: IR, PI, DAR, DD, SV, RAMP (Breakdown and Burn modes), Capacitance, Leakage Current
- Wireless communication by **Bluetooth** for transferring and showing real-time data to **PC** and **Android device**
- Memory and Logging functions
- Filter function reduces noise interference for obtaining stable measurements
- Large back light display with Bar-Graph indication
- Robust design for field use with **IP65** (lid closed)
- Powered by rechargeable battery
- Safety Standard IEC61010-1 **CAT IV 600V**

KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

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

## Specifications

Insulation resistance						
Test Voltage	250V *1	500V	1000V	2500V	5000V	
Max measurement value	9.99GΩ	99.9GΩ	199GΩ	999GΩ	9.99TΩ	
Accuracy	0.0 to 99.9MΩ ±5%rdg±3dgt	0.0 to 999MΩ ±5%rdg±3dgt	0.0 to 1.99GΩ ±5%rdg±3dgt	0.0 to 99.9GΩ ±5%rdg±3dgt	0.0 to 99.9GΩ ±5%rdg±3dgt	
	0.1 to 9.99GΩ ±20%rdg	1 to 99.9GΩ ±20%rdg	2 to 199GΩ ±20%rdg	100 to 999GΩ ±20%rdg	0.1 to 9.99TΩ ±20%rdg	
Short circuit current	5.0mA max.					
Output voltage	Accuracy	-10 to +10%	-10 to +20%	0 to +20%		
	Variable	-			-20 to 0% (by 5%)	
	Monitor	±10%rdg±20V				
Measuring range	Voltage measurement		Current measurement		Capacitance measurement	
	AC:30 to 600V (50/60Hz) DC:±30 to ±600V		0.00nA to 5.50mA		5.0nF to 50.0μF *2	
Accuracy	±2%rdg±3dgt		±10%rdg*3		±5%rdg±5dgt	
Power source	Rechargeable Battery (Lead-acid Battery) 12V*4 Charging power : 15VA DC max.					
Communication Interface	USB, Bluetooth®5.0*5					
Applicable standards	IEC61010-1, 61010-2-030 CAT IV 600V Pollution degree2, IEC 61010-2-034 IEC61010-031, IEC61326-1, 2-2					
Dimension	208(L) x 225(W) x 130(D) mm (Hard case 380(L) x 430(W) x 154(D) mm)					
Weight	3127:Approx.4kg (including battery), Total:Approx.8kg (including Accessories)					
Accessories	7165A(Line probe), 7224A(Earth cord), 7225A(Guard cord) 8019(Hook type prod), 8327EU(Power adaptor 15V/1A) 9171(Carrying case [Hard]), Instruction manual					
Optional accessories	7168A(Line probe with alligator clip), 7253(Longer line probe with alligator clip), 8212-USB(USB adapter), 8302(Adapter for recorder)					

\*1 IR mode only \*2 At 5000V range 5.0nF to 25.0μF \*3 Determined by resistance and Voltage values (over 10MΩ)

\*4 No measurements are possible while charging

\*5 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®.

## Accessories



### EVERYTHING YOU NEED...

KEW 3127 comes with everything you need for Insulation Resistance and Diagnostic Test. A full set of accessories, Power adaptor and test leads are included. The instrument also comes in a robust hard case, a quick reference guide on case lid and it is supplied with a calibration certificate.

## Diagnostic Insulation Tests

### PI Polarization Index

PI =  $\frac{\text{Insulation resistance value 10 min. after start}}{\text{Insulation resistance value 1 min. after start}}$

PI Criteria	4.0 or more	4.0 to 2.0	2.0 to 1.0	1.0 or less
Criteria	Best	Good	Warning	Bad

### DAR Dielectric Absorption Ratio

DAR =  $\frac{\text{Insulation resistance value 1 min. after start}}{\text{Insulation resistance value *15 sec. after start}}$

DAR Criteria	1.4 or more	1.25 to 1.0	1.0 or less
Criteria	Best	Good	Bad

\*User-Selectable 15sec. or 30sec. interval

### DD Dielectric Discharge

DD =  $\frac{\text{Current value 1 min. after completing (mA)}}{\text{Voltage value when a measurement complete (V) x Capacitance (F)}}$

DD Criteria	2.0 or less	2.0 to 4.0	4.0 to 7.0	7.0 or more
Criteria	Good	Warning	Poor	Very poor

## Data Communication Function

- Transferring and showing real-time data to PC and Android™ tablet
- Recorded data can be transferred (PC only)
- Analyzing of the saved data (PC only)







Please download the software from our website.

\*Bluetooth® is a registered trademark of the Bluetooth SIG, Inc.

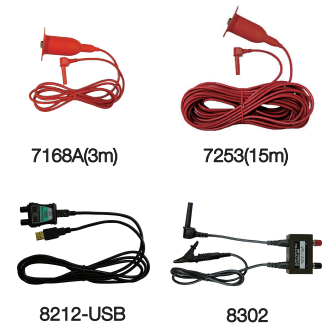
\*Free Android™ software is available on download site

\*Android™ is a registered trademark of the Google LLC.

## Selection Guide

	3125	3126	3127	3128
				
Voltage / resistance	5kV / 1TΩ	5kV / 1TΩ	5kV / 10TΩ	12kV / 35TΩ
Short circuit current(max)	1.3mA	5mA	5mA	5mA
PI, DAR	✓	✓	✓	✓
SV, DD	-	-	✓+Ramp	✓
Filter	-	✓	✓	✓
Memory / communication	-	-	✓	✓
Power source	LR14 x 8	LR14 x 8	Rechargeable Battery	Rechargeable Battery

## Optional accessories



## 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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