

HIGH VOLTAGE INSULATION TESTERS

5000V

KEW **3127**

CAT IV 600V DC V USB Bluetooth

- Insulation Resistance up to 10TΩ
- Short-Circuit Current up to 5mA
- Wide Test Voltage from 250V to 5000V
- Diagnostic Insulation Tests: IR, PI, DAR, DD, SV, RAMP.
- 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.
- Robust design for field use with IP65 (lid closed).
- Powered by rechargeable battery.

Function

PI DAR DD SV RAMP



3127

Insulation resistance						
Test voltage		250V * ¹	500V	1000V	2500V	5000V
Max measurement value		9.99GΩ	99.9GΩ	199GΩ	999GΩ	9.99TΩ
Accuracy		0.0 - 99.9MΩ ±5%rdg±3dgt	0.0 - 999MΩ ±5%rdg±3dgt	0.0 - 1.99GΩ ±5%rdg±3dgt	0.0 - 99.9GΩ ±5%rdg±3dgt	0.0 - 99.9GΩ ±5%rdg±3dgt
		0.1G - 9.99GΩ ±20%rdg	1G - 99.9GΩ ±20%rdg	2G - 199GΩ ±20%rdg	100G - 999GΩ ±20%rdg	0.1T - 9.99TΩ ±20%rdg
Short circuit current		Max 5.0mA				
Output voltage	Accuracy	-10 - +10%	-10 - +20%	0 - +20%		
	Variable	—			-20% - 0% (5%step)	
	Monitor	±10%rdg±20V				
Measuring range		Voltage measurement		Current measurement		Capacitance measurement
		AC:30 - 600V (50/60Hz) DC:±30 - ±600V		0.00nA - 5.50mA		5.0nF - 50.0μF * ²
		±2%rdg±3dgt		±10%rdg* ³		±5%rdg±5dgt
Power source		Rechargeable Battery (Lead-acid Battery) 12V* ⁴ Charging power : DC 15VA MAX				
Communication Interface		Bluetooth:Ver2.1 + EDR Class2 , USB:Ver1.1				
Applicable Standards		IEC 61010-1, 61010-2-030 CAT IV 600V Pollution degree2, IEC 61326-1, 2-2				
Dimension		208(L) x 225(W) x 130(D) mm (Hard case 380(L) x 430(W) x 154(D) mm)				
Weight		3127:4kg Approx. (including battery), Total:8kg Approx. (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		7168A(Line probe with alligator clip:3m), 7253(Longer line probe with alligator clip:15m), 8258(USB communication set), 8302(Adaptor for recorder 1mV/1μA)				

*1) IR mode only *2) At 5000V range 5.0nF-25.0μF *3) Determined by resistance and Voltage values (over 10MΩ) *4) No measurements are possible while charging ※ Bluetooth is a registered trademark of the Bluetooth SIG, Inc.

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)



※Free Android software is available on download site

Optional Accessories



System requirements

OS: Windows®Vista/7/8/10
Display: XGA (Resolution 1024 x 768 dots) or more
Hard-disk: Space required 100Mbyte or more
Others: With CD-ROM drive and USB port
* Windows® is a registered trademark of Microsoft in the United States.

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 Best	4.0-2.0 Good	2.0-1.0 Warning	1.0 or less Bad
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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 Best	1.25-1.0 Good	1.0 or less Bad
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*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 Good	2.0-4.0 Warning	4.0-7.0 Poor	7.0 or more Very poor
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