



HVIRM5000 Diagnostic 5kV Insulation Tester



FEATURES

Shock and weatherproof design
Noise filtering
Automatic discharge
DAR & PI
Step voltage test
Capacitance and Current readings
Data Save & Hold.
Measurement Range: 0.01MΩ 10.00TΩ
Resolution: 0.01MΩ



SPECIFICATIONS

Functions	Insulation Resistance, Current Value, Capacitance Value, Polarization Index, Dielectric Absorption Ratio, Automatic Discharge, Ambient Temperature Display, Filter, Time, Data hold & save
Power	DC 14.8 V, 2600mAh rechargeable Li-Battery, approx. 16.8 V in fully charged status
Test Voltage	100V, 250V, 500V, 1000V, 2500V, 5000V
Short Circuit Current	>5mA
Connections	L terminal: High Voltage Terminal. Connect one end of the test leads to the L terminal, and the other end should be connected/clamped on to the device under test. G terminal: Guard Terminal, it is used to provide a return path for surface leakage current and minimize its effect on the results. E terminal: Earth Terminal, usually connected to the ground or neutral terminal of the measured object.
Time	Max: 99min and 99seconds, depending on the test method, adjustable
Resolution	Insulation Resistance: 0.01MΩ
LCD	5.6 bit Colour LCD
Data Storage	Data is automatically saved upon the completion of the test, up to 1000 sets of data, including the current test data, ambient temperature, date and time and other information.
View Data	Use the buttons to select View Data option on the home screen, and use the arrows to browse through the data
Automatic shut-down	Instrument will automatically shut down without operation in 15 minutes
Standard Test Leads	1 red, 1 green and 1 black test lead with clip.



HV TEST

Battery Voltage	Display the remaining battery in real time. Please charge in a timely manner when the battery is low. No output voltage for testing when the battery is low
Dimensions	320mm(L) ×240mm (W)×145mm(H)
Weight	Approximately 3.25kg (battery included)
Data Transmission	Download data through the USB port
Communication Interface	USB port, the saved data can be uploaded to the computer for saving or printing.
Ideal Working Conditions	-10°C-50°C; no condensations when below 80% RH
Ideal Storage Conditions	-20°C-60°C; no condensation when below 70% RH,
Withstand Voltage	AC 5kV 50Hz, 1min between test leads and the housing.
Dielectric Strength	Above 500 MΩ between the test leads and the housing.
EMC	IEC61326(EMC)
Safety Standards	CAT IV 600V

INSULATION RESISTANCE MEASUREMENT RANGE AND ACCURACY

Output Voltage	Range	Accuracy
100V DC	0.01MΩ-1.00GΩ	±3%rdg±5dgt
	1.00GΩ-100GΩ	±15%rdg±5dgt
250V DC	0.01MΩ-2.50GΩ	±3%rdg±5dgt
	2.50GΩ-250GΩ	±15%rdg±5dgt
500V DC	0.01MΩ-5.00GΩ	±3%rdg±5dgt
	5.00GΩ-500GΩ	±15%rdg±5dgt
1000V DC	0.01MΩ-10.00GΩ	±3%rdg±5dgt
	10.00GΩ-1.00TΩ	±15%rdg±5dgt
2500V DC	0.01MΩ-25.0GΩ	±3%rdg±5dgt
	25.0GΩ-2.50TΩ	±15%rdg±5dgt
5000V DC	0.01MΩ-50.0GΩ	±3%rdg±5dgt
	50.0GΩ-10.00TΩ	±15%rdg±5dgt

CAPACITANCE AND CURRENT MEASUREMENT RANGE AND ACCURACY

Output Voltage	Range	Accuracy
Current Measurement Range	0.01nA-10000.0uA	±5%±0.2nA
Capacitance Range	0.010uF-100.0μF	±10%±0.005uF

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HV Test Group of Companies

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