

S420 5 kV Insulation Test Set



FEATURES

Output voltage level: 5000V, 2500V, 1000V, 500V, 250V

Range: 0.01 MΩ to 5TΩ

PI & DAR

Automatic discharge

Data save & data hold

Short circuit current: 5mA



SPECIFICATIONS

Function	Insulation resistance, polarization index, absorption ratio, AC/DC voltage test; Automatic discharge function; Ambient temperature test
Power	DC 14.8V 2600mAh rechargeable Li-battery, full battery voltage 16.8V
Output Voltage	Setting range: 250V, 500V, 1000V, 2500V, 5000V
Short Circuit Current	≥5mA
Wire Connection Method	L port: High Voltage Terminal. The other end of the lead cable connected from the L port should be connected to the insulator that needs to be measured
	G port: Guard Terminal. Provides a return circuit that bypasses the meter. For example, if you are measuring a circuit having a current that you do not want to include, you connect that part of the circuit to the "GUARD" terminal
	E port: "E" Ground Terminal. Connect to the ground or neutral to the measured object. For example, the housing, transformer grounding, or cable shield
	V port: AC / DC voltage measuring terminal (AC / DC automatic identification)
Measurement Range	0.01MΩ to 5TΩ
Resolution	Insulation resistance: 0.01MΩ AC voltage: 0.01V DC voltage: 0.01V
Test Duration	1 to 30 mins (depends on measuring method, can be set)
Backlight Brightness	Adjustable backlight, suitable for dark environments
Measurement Range	The measurement range will be automatically adjusted based on the voltage of the conductor
LCD	4 bite LCD, white screen with backlight
LCD Size	138mm×85mm
LCD Display Area	122mm×66mm
Test Indication	During testing, a LED light will flash and there will be a bar that indicates the progress

Charging Indication	A red light indicates it is charging; a green light indicates it is fully charged
Dimensions	Instrument size: LWH 270mm×220mm×85mm
Standard Test Wire	1 red lead, 1 green lead, 1 black lead
Battery Voltage	The instrument will display battery level. Please charge when necessary
Communication Port	Stored data can be uploaded to PC through a USB cable
Communication Line	1 USB cable. length 1.5m
Weight	Instrument: approx. 2.2kg (including battery) Total: approx. 4.11 kg (including package)
Working Current	Stand by: 25mA Max (backlight off); Backlight: 25mA Max (only backlight on); Measuring: 450mA Max (backlight off)
Tool Bag	Standard orange-black tool bag
Ideal Working Conditions	-10°C to 40°C; below 80%RH
Ideal Storage Conditions	-20°C to 60°C; below 70%RH
Withstand Voltage	Between the wire and the housing AC 10.0kV 50Hz withstand for 1min
Insulation Resistance of Housing	Between the wire and the housing >500 MΩ
Electromagnetic Properties	IEC61326 (EMC)

INSULATION RESISTANCE MEASUREMENT RANGE AND ACCURACY

Output Voltage	Range	Accuracy
250V (10%) DC	0.01MΩ to 2.50GΩ	±3%rdg±5dgt
	2.50GΩ to 250GΩ	±15%rdg±5dgt
500V (10%) DC	0.01MΩ to 5.00GΩ	±3%rdg±5dgt
	5.00GΩ to 500GΩ	±15%rdg±5dgt
1000V (10%) DC	0.01MΩ to 10.00GΩ	±3%rdg±5dgt
	10.00GΩ to 1.00TΩ	±15%rdg±5dgt
2500V (10%) DC	0.01MΩ to 25.0GΩ	±3%rdg±5dgt
	25.0GΩ to 2.50TΩ	±15%rdg±5dgt
5000V (10%) DC	0.01MΩ to 50.0GΩ	±3%rdg±5dgt
	50.0GΩ to 5.00TΩ	±15%rdg±5dgt



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