

S430 5KV INSULATION TEST SET



FEATURES

Insulation resistance measurement up to 10 TΩ
Automatic DAR and PI calculation
Selectable noise filter
SV and DD diagnostics
Capacitance and leakage current measurement in real time
AC/DC external voltage measurement up to 1000 V
Compact, lightweight, waterproof design for field use
PC software: 1s data log, trend view, and report generation



GENERAL SPECIFICATION

Function	Measurements: Insulation Resistance, Leakage Current, Capacitance, PI, DAR Diagnostics: SV (Step Voltage), DD (Dielectric Discharge), Ramp Test Utilities: Auto Discharge, Noise Filter, Timer, External Voltage (AC/DC), Data Storage, Ambient Temperature Display
Power	DC 14.8V, 5200mAh Li-ion Battery
Test Voltage	100V, 250V, 500V, 1kV, 2.5kV, 5kV
Voltage Measurement	AC/DC up to 1000V
Short Circuit Current	≥ 5 mA
Connection	L: HV Output G: Guard (minimizes surface leakage current) E: Earth
Time	Max: 99min and 99second, depending on the test method, adjustable
Step Voltage	100–1000V: 10V step 2.5–5kV: 20V / 30Vstep
Resolution	Insulation Resistance: 0.01MΩ Capacitance: 0.001 μF
Capacitance Test	Range: 0.200μF to 100.0μF Accuracy: ±20%±0.005μF

Backlight	Adjustable (High/Medium/Low)
LCD	5.6-inch color LCD
Test Indication	LED flash and buzzer alert during test
Charging Indication	Red = charging; Green = full
Data Storage	Auto-save up to 1000 records
Data View	Built-in data view and browse function
Automatic Shut-Down	Auto power-off (15 min inactivity)
Standard Test Lead	Red/Green/Black clip leads included
Battery Status	Real-time battery level; output disabled at low battery
Display Info	Date, ambient temperature, and humidity
Dimensions	320mm(L) × 240mm(W)× 145mm(H)
Weight	Approximately 3.5kg (battery included)
Connectivity	USB (PC software) and Bluetooth (App)
PC Software	Data export, real-time display, and continuous logging
USB Cable	1.5m
Operating Environment	-10–40 °C, ≤80% RH (non-condensing)
Storage Environment	-20–60 °C, ≤70% RH (non-condensing)
Dielectric Strength	5 kV AC, 50 Hz, 1 min (leads to enclosure)
Safety Standard	IEC 61010-1, Pollution degree 2
Measurement Category	CAT IV 600 V
IP Rating	IP54
Auto Discharge	Automatic discharge after test completion
Step Voltage	Voltage and duration freely adjustable for each step
	Voltage : 100 - 5kV
	Duration: 1 s - 99 min
PI Setting	Flexible PI timing configuration (P1 / P2)

INSULATION RESISTANCE MEASUREMENT RANGE AND ACCURACY

Output Voltage	Range	Accuracy
100V (10%) DC	0.01MΩ to 5.00GΩ	±3%rdg±5dgt
	5.00GΩ to 200GΩ	±15%rdg±5dgt
250V (10%) DC	0.01MΩ to 10.0GΩ	±3%rdg±5dgt
	10.0GΩ to 500GΩ	±15%rdg±5dgt
500V (10%) DC	0.01MΩ to 25.0GΩ	±3%rdg±5dgt
	25.0GΩ to 1.00TΩ	±15%rdg±5dgt
1000V (10%) DC	0.01MΩ to 50.0GΩ	±3%rdg±5dgt
	50.0GΩ to 2.00TΩ	±15%rdg±5dgt
2.5KV (10%) DC	0.01MΩ to 100GΩ	±3%rdg±5dgt
	100GΩ to 5.00TΩ	±15%rdg±5dgt
5KV (10%) DC	0.01MΩ to 200GΩ	±3%rdg±5dgt
	200GΩ to 10.0TΩ	±15%rdg±5dgt

CAPACITANCE AND CURRENT MEASUREMENT RANGE AND ACCURACY

	Range	Accuracy
Current Measurement Range	0.01nA to 20.00mA	1.5%±5dgt
Capacitance Range	0.010uF to 100.0μF	±20%±0.005μF
AC/DC Voltage	0V to 1000V	±2%rdg±5dgt



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