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

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	0.200uF to 100.0μF	±20%±0.005μF
AC/DC Voltage	0V to 1000V	±2%rdg±5dgt








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