

S410 2.5 kV Insulation Test Set



- Output Voltage level: 2500V, 1000V, 500V, 250V, 100V
- Short Circuit Current Output: 10mA, 5mA, 3.5mA, 1.5mA
- Resistance Measurement Range: 0.01MΩ~5TΩ
- Voltage Measurement Range: AC 0.01V~750V, DC 0.01V~1000V
- Large LCD with backlight display
- Anti-interference
- 3 terminal test
- Accurate results

DESCRIPTION

S410 2.5 kV Insulation Test Set is a fully automatic 2.5kV insulation test set designed to provide a comprehensive assessment of the conditions of electrical insulations of high voltage apparatus such as the insulation resistance of transformers, bushing, circuit breakers, and other machinery. S410 makes measurement by using the ohm's law with the 3 terminal method, which is much more accurate than the 2 terminal method. An additional Guard Terminal provides a return circuit that bypasses the meter, providing users a more precise result. The instrument is also able to automatically calculate the absorption ratio (DAR) and polarization index (PI), giving users a comprehensive diagnostic of the insulation result.

APPLICATION

S410 provides a quick and easy way to determine the condition of the insulation on the wire, generators, transformers, etc. It is widely used in transport, power utility, factories, and general industries.

SPECIFICATIONS

Functions	Insulation resistance, polarization index, absorption ratio, AC/DC voltage test; automatic discharge function; ambient temperature test
Power	DC 14.8V 2600mAh rechargeable lithium battery, 16.8V when fully charged
Test Voltage	Setting range: 100V、250V、500V、1000V、2500V
Short Circuit Current	≥5mA (optional ≥10mA、≥3.5mA、≥1.5mA)
Wire Set Up	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 measurement terminal (AC/DC automatic identification)
Resolution	Insulation resistance: 0.01MΩ
	AC voltage: 0.01V
	DC voltage: 0.01V
Measuring Time	1~30 mins (depends on the measuring method, can be set)
Backlight	A controllable white screen backlight, suitable for dark places
Measurement Range	The measurement range will be automatically adjusted based on the voltage of the conductor

LCD	4-bit LCD with white backlight LCD size: 138mm×85mm Display area: 122mm×66mm
Test Indication	During testing, a LED light will flash and there will be a bar that indicates the progress
Charge Indication	The indicator on the charger is red when charging and green when full
Dimension	270mm×220mm×85mm
Standard Test Leads	1 red lead, 1 green lead, 1 black lead
Low Battery Warning	The instrument will display battery level. Please charge when necessary
Communication Port	Stored data can be uploaded to PC through a USB cable
Communication Wire	1 USB cable, length 1.5 m
Operating Current	Standby: 25mA Max (backlight off) Backlight: 25mA Max (backlight consumption alone) Operating: 450mA Max (backlight off)
Weight	Host: approx. 2.2 kg (including battery) Total: approx. 4.11kg (including package)
Tool Bag	Standard yellow-black tool bag
Ideal Working Conditions	-10℃～40℃; below 80%RH
Ideal Storage Conditions	-20℃～60℃; below 70%RH
Withstand Voltage	AC 3700V/ RMS (between front and back ends of the housing)
Insulation Resistance	20MΩ above (500V between the screw on the bottom housing and the upper housing)
Electromagnetic Feature	IEC61326(EMC)

ACCESSORIES & ORDER DATA			
Description	Order Code	Description	Order Code
S410 2.5 kV Insulation Test Set, 1 pc	S410	Included accessories for S410	
		Toolbag, 1 pc	
		High-pressure test rod (3m), 1 pc	
		High-pressure test rod clamp, 1 pc	
		High-pressure test rod hook, 1 pc	
		Test leads with clamp (3m), 3 pcs (black, green, and red 1 each)	
		18650 battery, 4 pcs	
		16.8V charger, 1 pc	
		Data software (e-copy), 1 pc	
		USB cable, 1 pc	
		User manual, Warranty card, Certificate of Conformity, 1 copy of each	

SALES OFFICE

Email: sales@eaglotest.com
 Tel: +86 020 31529626
 Add: Building 4, No.18 Keyuan Road,
 Baiyun District, Guangzhou, Guangdong, China

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www.eaglotest.com

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