

S470 3 Terminal Earth Tester



- 2 and 3 point testing
- Resolution of 0.001Ω
- Simple one-button operation
- Rugged carry case
- FFT and AFC technology
- Ground resistance: 0.000Ω~200KΩ

DESCRIPTION

S470 3 Terminal Earth Tester is a robust and compact automatic earth (ground) test instrument designed to measure earth electrode resistance. Not only it is simple and intuitive to use, but also it is accurate. The instrument is installed with Fast Fourier Transform (FFT) and Automatic Frequency Control (AFC) technology, which will automatically identify interference and select the appropriate measurement frequency, minimizing the effect of interference, and provide an accurate ground resistance value.

APPLICATION


S470 is widely used in industries such as power utility, geology, construction, lightning protection, etc. The main purpose of the instrument is to determine the quality of the grounding of an electrical system.

SPECIFICATIONS

Functions	Grounding resistance, grounding voltage, and low-value resistance measurement
Power	11.1V DC, 2600mAh
Backlight	A controllable white screen backlight, suitable for use in dark environments
Measuring Mode	Three terminal and two terminal methods to measure grounding resistance
Measuring Method	Earth resistance: rated current pole-changing method, Earth voltage: average rectification(between P(S)-ES)
Measuring Range	Ground resistance: 0.000Ω~200KΩ Grounding voltage: 0.000V~600V (50Hz/60Hz) AC
Resolution	0.001Ω; 0.001V
Accuracy	2 3 wire method to measure grounding Resistance (R): 1. 0.000Ω~10.00KΩ: ±2%rdg±5dgt 2. 10.0K~100.0KΩ: ±3%rdg±5dgt 3. 100.0K~200.0KΩ: ±3.5%rdg±5dgt Note: when the interference voltage is 5V the additional error is ≤±5%rdg±5dgt
Measured Voltage Waveform	Sine wave
Measuring Frequency	412Hz、825Hz、1280Hz
Measuring Current	0.000Ω~100.0Ω range: about 20mA constant current 100Ω~10.00KΩ range: about 3.0mA constant current 10.0KΩ~200.0KΩ range: about 0.25mA constant current
Open Circuit Measuring Voltage	AC 90V max
Display	Extra-large LCD display
Measuring Indication	LED flickers testing, and there is also an LCD count down display

LCD Size	140mm×85mm
LCD Display Area	123mm×66mm
Dimension	Host: 320mm×275mm×145mm Package: 355mm×235mm×325mm
Standard Test Leads	3 in total: red 15m, yellow 10m, green 5m
2T-Test Leads	2 in total: red 1.6m, green 1.6m
Auxiliary Grounding Rod	2 pcs: approx. φ10mm×200mm
Measurement Rate	Ground voltage: approx. 2 times/sec Ground resistance: approx. 7 sec/time
Measure Times	5000 times above (short circuit test, after each test, stop for 30 seconds and retest)
Circuit Voltage	AC 600V below
Communication Port	With a USB interface, stored data can be uploaded to the computer for saving to printing
Communication Wire	1 USB communication wire, length 1.5m
Data Hold	The "HOLD" symbol indicates data is kept
Data Storage	300 sets, "FULL" Indicates that the storage is full
View Data	"READ" symbol will be displayed when browsing saved data
Overload Warning	When exceeding the measuring range, the "OL" symbol will be displayed
Interference Warning	The instrument will automatically identify interference signals, when the interference is above 5V, then the "NOISE" icon will be displayed
Alarm Warning	When the measured value exceeds the pre-set value, an alarm "beep" will be emitted
Low Battery Warning	When the battery voltage is low, the low battery sign will be displayed, please charge the battery when possible
Power Consumption	Standby: 35mA max (backlight off); Backlight: 25mA Max (only backlight consumption); Measurement: 150mA max (backlight off)
Weight	Host: approx. 2.7kg (including battery) Total: approx. 5.3kg (including package)
Toolbox	The military toolbox is designed to support pressure 200kg
Ideal Working Conditions	-10 C ~ 40 C; below 80%RH
Ideal Storage Conditions	-20 C ~ 60 C; below 70%RH
Overload Protection	Ground resistance measurement: C-E, P-E between each port AC 600V
Insulation Resistance	20MΩ above (between circuit and shell 500V)
Withstand Voltage	AC 3700V/RMS (between circuit and shell)
Electromagnetic Features	IEC61326 (EMC)
Safety Standards	IEC61010-1(CAT III 300V, CAT IV 150V, pollution class 2); IEC61010-031; IEC61557-1 (ground resistance); IEC61557-5 (soil resistivity); JIG 366-2004(ground resistance meter)

ACCESSORIES & ORDER DATA

Description	Order Code	Description	Order Code
S470 3 Terminal Earth Tester, 1 pc	S470	Included accessories for S470	
		Toolbox, 1pc	
		Auxiliary grounding rod, 2 pcs	
		Test leads, 3 pcs (red 15m; yellow 10m; green 5m)	
		2T-test leads, 2 pcs (red 1.6m; green 1.6m)	
		Data software(e-copy), 1 pc	
		Charger, 1pc	
		USB cable, 1 pc	
		User manual, Warranty card, Certificate of Conformity, 1 copy of each	

SALES OFFICE

Email: sales@eaglotest.com
 Tel: (852) 2947 1888
 Add: 11F/, Long To Building, 654-656 Castle Peak Road,
 Lai Chi Kok, Kowloon, Hong Kong.

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 www.eaglotest.com
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