ES3022 Series Clamp Earth Resistance Tester



Ⅰ. Characteristic

Ground pile type clamp ground resistance tester, also known as **loop resistance tester**, is used for grounding resistance test. The instrument uses a new 2.4-inch luxury color screen design, with clamp resistance, three or four-wire resistance, AC voltage, current measurement functions, and also has data storage, data review, alarm, automatic shutdown and other functions. The whole machine is beautiful and high-grade, with a wide range, high resolution, convenient operation, convenient carrying, accurate, reliable, stable performance and strong anti-interference ability. Moreover, it has a shock-proof, dust-proof and moisture-proof structure. It is a common and indispensable instrument for telecommunications, electric power, meteorology, computer rooms, oil fields, electromechanical installation and maintenance, and industrial enterprises that use electric power as industrial power or energy. It is suitable for measuring grounding resistance of various telecommunications, electric power, meteorology, computer room, oil field, power distribution lines, tower transmission lines, gas stations, factory grounding grids, lightning rods, etc.

The **ground pile type clamp ground resistance tester** is controlled by a microprocessor and can accurately detect the ground resistance. It uses fast filtering techniques to minimize interference. At the same time with data storage and data upload and other functions.

Ⅱ. Technical Specification

Model	ES3022	ES3022E	ES3022F
Clamp Resistance Range	0.00Ω-1500Ω	0.00Ω-1800Ω	0.00Ω-2000Ω
Leakage current range	0.000mA-40A	0.000mA-50A	0.000mA-60A
Current resolution	1uA	1uA	1uA
Three or four line method	0.00Ω-3000Ω	0.00Ω-30kΩ	0.00Ω-30kΩ
Soil Resistivity Range	○	0.00Ω-9999kΩm	0.00Ω-9999kΩm
Ground voltage range	600V	600V	600V

Bluetooth	○	○	●
Built-in rechargeable battery	●	●	●
TFT color display	●	●	●
USB data upload function	●	●	●
Data storage	●	●	●
Battery level real-time indicator	●	●	●
Backlight	●	●	●
Alarm function	●	●	●
Low battery indication	●	●	●
Overload protection	●	●	●
○**Hollow means no** ●**Solid indicates yes**			

Ⅲ. Packing List

Features	Ground resistance test, loop resistance test, AC current test, AC voltage test
Accuracy Guaranteed Temperature Humidity	23℃±5℃, below 75%rh
Power supply	DC 3.7V lithium battery
Resistor Resolution	0.01Ω
Current resolution	0.001mA
Voltage resolution	0.01V
Jaw size	68mm
Display mode	2.4 inch color LCD screen
LCD size	46mm×29mm
Meter size	Length, width and height: 273mm×106mm×53mm
Measure time	1 time/second
USB interface	With a USB interface, the stored data can be uploaded to the computer, saved and printed
Communication line	1 USB communication line
Data storage	Maximum 500 sets of data, displaying "FULL" symbol indicates that the storage is full
Overflow display	"OL" symbol indication when overrange overflow
Alarm function	When the measured value exceeds the alarm setting value, an alarm prompt will be issued
Battery voltage	Real-time display of battery power, reminding to charge in time when the battery voltage is low

Automatic shut-down	Automatic shutdown after 15 minutes of startup
Power consumption	750mA MAX
Quality	Meter: 975g (including battery)
Working temperature and humidity	-10℃～40℃; below 80%rh
Storage temperature and humidity	-20℃～60℃; below 70%rh
Insulation resistance	Above 20MΩ (500V between circuit and case)
Pressure resistance	AC 3700V/rms (between circuit and case)
External magnetic field	<40A/m
External electric field	<1V/m
Suitable for safety regulations	IEC61010-1 (CAT III 300V, CAT IV 150V, pollution degree 2); IEC61010-031; IEC61557-1 (grounding resistance);

Ⅲ. Packing List

Meter	1 set
Test lead	4
Simple test lead	2 pieces
USB communication cable	1
Charger	1
Monitoring software CD	1 serving
Manual, Warranty	1 set
Instrument box	1

GuangZhou ZhengNeng Electronics Technology CO.,LTD
Address: 4 / F, Building 6, Hongjie Industrial Park, Xingshan Middle Road, Baisha Village, Zhongluotan Town, Baiyun District, Guangzhou, China
Post code：510540
Tel：+86-020-36544172
E-mail: sales@fuzrr.com
Website：http://www.fuzrr.com