

ES3001P Multi-function Earth Resistance tester



I , Features

Multi-function Earth resistance tester is also called grounding resistance tester. It is an advanced grounding resistance tester with a variety of measurement methods. Using the large size HD segment code LCD screen display and microprocessor technology, through the microprocessor control precision 4-line method, 3-line method and simple 2-line method to measure the grounding resistance test. Widely used in telecommunications, electric power, meteorology, computer room, oil field, power distribution line, tower transmission line, gas station, factory grounding grid, lightning rod, etc. The instrument has the characteristics of accurate, fast, simple, stable and reliable test.

Multi-function Earth resistance tester Controlled by a microprocessor, it can accurately detect ground resistance, soil resistivity, ground voltage, DC voltage. It uses fast filtering technology to reduce interference to a minimum. The resistance value of the auxiliary electrode is displayed on the same screen, which is convenient to judge the measurement error caused by environmental factors, and is convenient to measure the ground real resistance more accurately. 500 groups of data are stored at the same time, and the mobile phone APP is connected through Bluetooth, or the PC is connected through USB to realize wireless or wired remote measurement, reading historical data, exporting report analysis and other functions. It has unique functions such as numerical retention and intelligent alarm prompt.

Multi-function Earth resistance tester It consists of host computer, upper computer software, mobile phone APP software, test cable, USB cable, charger and ground pin.

Model

Model	Functions
ES3001P	Two, three and four wires AC ground resistance, soil resistivity, AC voltage, DC voltage

II, Technical specifications

Two, three and four wire method earth resistance	0.00 Ω ~200.0k Ω	Precision: $\pm 1.5\%$ rdg ± 7 dgt	Resolution: 0.01 Ω
Soil resistivity	0.00 Ω m~9999k Ω m	Precision: $\rho = 2 \pi a R$	Resolution: 0.01 Ω m
Voltage to earth	0.000V~750.0V	Precision: $\pm 1.5\%$ rdg ± 50 dgt	Resolution: 0.001V
DC Voltage	0.000V~1000V	Precision: $\pm 1.5\%$ rdg ± 50 dgt	Resolution: 0.001V
Base condition	23°C \pm 5°C, Below 75%rh		
Power	11.1VLithium battery (built-in) full charge can be measured more than 1000 times in AC resistance mode		
Backlight	Controllable backlight, suitable for dim places		
Test the waveform, and the frequency	Sine wave 128Hz		
Auto shut off	"APO" indicates automatic shutdown after 15 minutes (default). The shutdown time can be customized		
Measurement methods	Precision four-wire, three-wire method measurement, simple two-wire measurement ground resistance, average rectification		
Alarm function	When the measured value exceeds the alarm set value, an alarm prompt is issued		
Screen size	5inches		
Range of electrode spacing	0.1m~100.0m		
Measuring time	Voltage to ground: about 3 times/SEC Ground resistance, soil resistivity: about 10 seconds / time		

USB interface	With USB interface, data reading, saving record data and so on
Bluetooth APP	With remote control, real-time monitoring, data reading and other functions
Data storage	500sets
Overload protection	Measurement of ground resistance: AC 280V/3 seconds between each port of H-E and S-ES
Auxiliary grounding rod	4pcs: $\phi 10\text{mm} \times 200\text{mm}$
Auxiliary grounding test	With auxiliary grounding resistance value test function, $0.00\text{k}\Omega \sim 200.0\text{k}\Omega$
Power consumption	Standby: 80mA Max(Backlight closed) 90mA Max(Turn on backlight)
	Mesure: 120mA Max(Backlight closed) 130mA Max(Turn on backlight)
Weight	Instrument: 1880g(with batteries)
	Test cable: 1300g(Includes simple test cables)
Suitable for safety regulations	IEC61010-1(CAT III 300V、CAT IV 150V、 degree of pollution); IEC61010-031; IEC61557-1(earth resistance); IEC61557-5(soil resistivity); JJG 366-2004(earth resistance meter);

III, Packing list

Instrument	1 unit (internal battery)
Instrument bag	1 pcs
Auxiliary grounding rod	4 pcs
Monitoring software CD	1 pcs
USB cable	1 pcs
Test cable	4 pcs
Simple test cables	2 pcs
Charger	1 pcs
Guarantee certificate of the user manual	1 pcs



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