

ES3022 multifunction clamp earth resistance tester (2/3/4-wire clamp)



Measurements:

- ▶ Earth resistance by clamp method
- ▶ Earth resistance with auxiliary probes
- ▶ Grounding auxiliary probe resistance
- ▶ AC Current (resolution: 1uA)
- ▶ Soil resistivity
- ▶ AC Voltage: 600V AC

Others:

- ▶ Bluetooth connection
- ▶ USB data download
- ▶ Settable limits with alarm function
- ▶ Color screen display

ES3022 Multifunction Clamp Earth Tester having a 2.4" color screen provides the following measurement functions: earth resistance measurement by clamp method, three or four wire resistance measurement, AC voltage and current measurement.

Other functions are storage of measurement values, data recall to the screen, settable limit values and alarming by the set limit as well as automatic power off.

The microprocessor controlled ES3022 Multifunction Clamp Earth Tester accurately measures the earth resistance. The fast filtering technology minimizes the interference effect so insuring stable and accurate measurement.

The maximum 500 measured value groups stored in the instrument memory can be downloaded to a memory stick by means of the USB interface.

The shock-, dust-, and moisture-proof design insures good protection against mechanical effects.

Specifications

Measurement functions and ranges

Model	ES3022	ES3022E	ES3022F
Earth resistance by clamp	0.00 ~1500	0.00~1800	0.00~2000
(Leakage) current	0.000~40 A AC	0.000~50 A AC	0.000~60 A AC
Current resolution	1 μA	1 μA	1 μA
3-, 4-wire resistance measurement	0.00~3000	0.00 ~30 k	0.00 ~30 k
Specific earth resistance	--	0.00 m~9999 k m	
(Earth) voltage	600 V	600 V	600 V

Reference conditions: 23±5°C, <75% RH
 Resistance measurement resolution: 0.01
 Voltage measurement resolution: 0.01 V
 Measurement speed: 1/sec
 Display: 2.4" color LCD, 46x29 mm
 Adjustable alarm function
 USB interface for downloading measured values + software
 Bluetooth interface (only ES3022F)
 Memory: for max 500 groups of measured data
 Power supply: DC 3.7 lithium battery
 Automatic power off: after 15 minute idle
 Real-time display of the battery charge level
 Dimensions: 273 (H) x 106 (W) x 53 (D) mm
 Jaw opening: for max 68 mm diameter cable
 Weight: 975g (with battery)
 Working temperature / humidity: -10~50°C; 80% RH
 Storage Temperature / Humidity: -10~60°C; 70% RH
 High voltage test: AC 3700 Vrms (between the circuit and the outer of the casing)
 Applicable regulations / standards: IEC61010-1 (CAT III 300V, CAT IV 600V, Pollution Degree 2); IEC61010-031; IEC61557-1 (Ground resistance)

Scope of delivery (Accessories supplied with the device)



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