

ERT-40 Earth Resistance and Soil Resistivity Tester

2/3/4-wires measurement of earth resistance, soil resistivity, earth voltage

Anti-interference ability and repeated measurement stability, more precise

New material body, stands hits, avoid slip, solid and durable

Data upload with RS232, Alarm function

Large LCD display with blue backlight

Data memory: 300 sets

Resistance range: 0.00ohm-30.00kohm

Soil resistivity: 0.00ohm m-9000kohm m

Earth voltage range: 0-600V



Brief Introduction

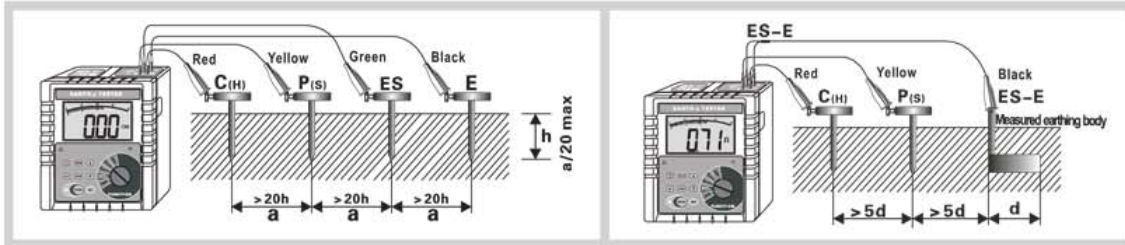
ERT-40 Earth Resistance Soil Resistivity Tester is specially designed and manufactured for measuring earth resistance, soil resistivity, earth voltage, AC voltage. Adopting the latest digital and microprocessing technology, precise 4-pole, 3-pole, simple 2-pole method for earth resistance measurement, importing FFT and AFC technology.

With a unique function of anti-interference capability and the ability to adapt to the environment, consistency of repeat testing, to ensure high precision, high stability and reliability for prolonged measure, which is widely used in electric power, telecommunications, meteorology, oil field, construction, lightning protection, industrial electrical equipment and other earth resistance, soil resistivity, earth voltage, AC voltage measurement.

ERT-40 Earth Resistance Soil Resistivity Tester is composed of host machine, monitoring software, testing wires, auxiliary ground pillars, communication wires and others. The large LCD display of host machine is with blue backlight and bar graph indicating that can be seen clearly. At the same time it can store 300 sets of data, fulfilling historical inquiry and online real-time monitoring through monitoring software, dynamic display, alarm indicator, and with the functions like historical data access, reading, preservation, report forms, printing and so on.

ERT-40 Earth Resistance and Soil Resistivity Tester

Field Application



Technical Specifications

Model	ERT-40
Function	Measurement of earth resistance, soil resistivity, earth voltage, low resistance.
Power Supply	DC 9V (Zi-Mn dry battery R14S 1.5V 6 PCS, continuous standby for 300 hours)
Measuring Mode	Precise 4-pole measurement, 3-pole measurement, simple 2-pole measurement
Measuring Method	Earth Resistance: rated current change-pole method, measurement current 20mA Max Soil Resistivity: 4-pole measurement (Wenner method) Earth Voltage: average rectification(between P(S)-ES)
Display Mode	4-digital super-large LCD display, blue screen backlight. LCD frame dimension: 128mm×75mm, LCD window dimension: 124mm×67mm
Earth Resistance	Range: 0.00ohm-30.00kohm, Resolution: 0.01ohm, Accuracy: ±1%rdg±3dgt
Soil Resistivity	Range: 0.00ohm m-9000kohm m, Resolution: 0.01ohm m
Earth Voltage	Range: 0V-600V AC, Resolution: 1V, Accuracy: ±1%rdg±3dgt
Dimension	L×W×H: 215mm×190mm×95mm
Standard Test Wire	4 wires: each for red 20m, black 20m, yellow 10m, and green 10m
Simple Test Wire	2 wires: each for red 1.6m and black 1.6m
Auxiliary Earthing Rod	4 rods: diameter 10mm×150mm
Measuring Rate	Earth voltage : about 3 times/second, Earth resistance, soil resistivity: about 5 seconds/time
Measuring Times	Over 5000 times (Short-circuit test, interval time should be at least 30 seconds)
Line Voltage	below AC 600V
RS232 Interface	Possess RS232 interface, software supervision, storage data can be uploaded to computer, saved or printed.
Communication Wire	One piece of RS232 communication wire, with length 1.5m
Data Storage	300 sets, "MEM" icon storage indicator, flash display "FULL" icon to indicate storage is full
Data Hold	Data hold function: "HOLD" icon display
Data Access	Data read function: "READ" icon display
Overflow Display	Exceeding measuring range overflow function: "OL" icon display
Alarm Function	Can measure auxiliary earth resistance, 0.00kohm-30kohm (100R+rC<50kohm, 100R+rP<50kohm)
Battery Voltage	When battery voltage decreases to about 7.5V, battery voltage low icon --+ will display, reminding to replace battery.
Power Consumption	Standby: about 20mA (Backlight shut off), Boot and with backlight: about 45mA (25mA without backlight), Measurement: about 100mA (Backlight shut off)
Weight	otal weight: 4.5kg (including package), Tester: 1443g (including battery), Testing wires: 1560g, Auxiliary earthing rods: 935g (4pcs)
Working Temperature & Humidity	-10℃-40℃, below 80%rh
Storage temperature & humidity	-20℃-60℃, below 70%rh
Overload Protection	Measuring earth resistance: between each interfaces of C(H)-E, P(S)-ES, AC 280V/3 seconds
Insulation Resistance	Over 20Mohm (between circuit and enclosure it is 500V)
Withstanding Voltage	AC 3700V/rms (Between circuit and enclosure)
Electromagnetic Features	IEC61326(EMC)
Protection Type	IEC61010-1 (CAT III 300V, CAT IV 150V, Pollution 2), IEC61010-031, IEC61557-1 (Earth resistance), IEC61557-5 (Soil resistivity), JJG 366-2004
Accessories	Tester: 1 PC, Auxiliary Earthing Rod, 4 PCS, Standard Testing Wire: 4PCS, Simple Testing Wire: 2PCS, RS232 Communication Cable: 1PC, Disk: 1PC, Tester Bag: 1 PC