

GPS

ERT-40R



A comprehensive solution to your ground stake and soil resistivity testing

Built-into its own protective, watertight carrying case for extreme durability and easy transportation, the GPS ERT-40R is ideal for use on both existing and new electrical grounding applications. Whether you are setting up a brand-new system and want to ensure correct earthing or are carrying out measurement/error diagnosis to maintain safety in electrical systems, the ERT40R has all of the tests you need to test safely, accurately and find problems with earth. The instrument is easy to use with a large rotary selector switch and one-press test button, both of which permit operation with gloved hands. The system integrates Automatic Frequency Control that identifies existing interference and chooses a measurement frequency to minimize its effect, thus providing a more accurate earth ground value.

Suitable for use both indoors and outdoors, the ERT-40R is there whenever you need to test earth connections.

Key Features

- IP65 Protection - robust, watertight casing for use indoors and outdoors
- 3 testers in one - calculates earth resistance, soil resistivity, & earth voltage
- Automatic Frequency Control
- Automatic checks – 3 indicators show fault presence
- Large-size LCD display with backlight for use in poor conditions
- Meets stringent safety standards
- 4 connecting terminals with colour coding for use with banana plugs or forked lugs
- Test initiation button
- Compatible with normal and rechargeable batteries (lithium battery supplied)
- Bluetooth® connectivity software

Applications

- Power, telecommunications, meteorology, oil fields, construction, lightning protection, and industrial electrical equipment

www.gpslimited.com/ERT40R
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com

EARTH TESTER

Precision 2/3/4-wire method

Technical Specifications

ERT-4OR Earth Tester	
Measurement Range	Earth Resistance: 0.00Ω-30.00kΩ (automatic range shift)
	Soil Resistivity: 0.00Ωm-9000kΩm (automatic range shift)
	Earth Voltage: 0V~600V
Measurement Mode	Precise 4-pole measurement, 3-pole measurement, simple 2-pole measurement of earth resistance
Measurement Method	Earth Resistance: rated current change-pole method, test current 20mA Max Soil Resistivity: 4-pole method (Wenner method) Earth Voltage: average rectification (between P(S)-ES)
Test Frequency	128Hz/111Hz/105Hz/94Hz (Automatic Frequency Control)
Intrinsic Error and Accuracy	±2%rdg±3dgt (please refer to USER MANUAL for full readout)
Short-circuit Test Current	AC 20mA max
Open-circuit Test Voltage	AC 40V max
Test Voltage Wave	Sine wave
Electrode Distance Range	1m-100m
Interface	USB interface, software monitoring, storage data can be uploaded to computer, saved, or printed.
Other Features	Data Storage/Data Hold/Data Access/Overflow Display/Interference Test

Standard Accessories

Auxiliary Grounding Rod (4pcs)
Standard Testing Wires (red 20m, black 20m, yellow 10m, and green 10m)
Simple Testing Wires (red 1.6m and black 1.6m)
Monitoring Software with Bluetooth Connectivity
USB Communication Cable
Tester Carry Bag

Power Supply

DC 7.4V 2600mAh rechargeable lithium battery

Electromagnetic

IEC61326(EMC)

Safety Standards

IEC61010-1 (CAT III 300V, CAT IV 150V, Pollution 2), IEC61010-031, IEC61557-1 (Earth resistance), IEC61557-5 (Soil resistivity), JJG 366-2004 (Grounding resistance meter)

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
ERT-4OR	Digital Earth Resistance Tester	800240

Mass

2.3kg/5.0lbs approx. (main unit)
1.6kg/3.5lbs approx. (test wires)
0.9kg/2.0lbs approx. (ground rods)

Dimension

Main unit: 280(L)×260(W)×160(H)mm

Operating

Temp -10°C to 40°, humidity RH<80%

Storage

Temp -20°C to 60°, humidity RH<70%

Services

1-year warranty (subject to product registration with GPS Ltd)
Please contact for more information.

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