

GPS

ERT-50R



Performs all four ground tests quickly and accurately

Measure earth ground loop resistances for multi-grounded systems using only current clamps. This technique eliminates the dangerous, and time-consuming job of disconnecting parallel grounds, and finding suitable locations for auxiliary ground stakes. You can use it to perform earth ground tests in places you have not considered before, such as inside buildings, on power pylons, or anywhere you don't have access to soil.

The GPS ERT-50R is fully suitable for outdoor use thanks to a special IP65 rated enclosure that protects the device from water and dust damage. It also features an incredibly easy to use interface with rotary dial for switching between test procedures such as 2/3/4 pole, ART, stakeless, leakage current and ground noise voltage measurements, a frequency selection button for choosing between 94, 105, 111 and 128Hz and a button to switch the backlight of the LCD display on and off. Once you have set everything up you can then initiate the test procedure by pressing the TEST button. All the buttons and rotary dial are large enough to be easily used even when you are wearing a large pair of gloves for extra protection.

Key Features

- IP65 Protection - robust, watertight casing for use indoors and outdoors
- 4 testers in one - calculates earth resistance, soil resistivity, earth voltage & earth current
- 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/ERT50R
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com

EARTH TESTER with current clamps

Technical Specifications

ERT-50R Earth Tester	
Measurement Range	Earth Resistance: 2/3/4-wire method: 0.00 ~ 30.00kΩ Selection method: 0.00 ~ 3000Ω Double clamp method: 0.01 ~ 100Ω
	Soil Resistivity: 0.00Ωm-9000kΩm (automatic range shift)
	Earth Voltage: 0V~600V
	AC current measurement, Range: 0.01mA~600A
Measurement Method	Earth Resistance: rated current change-pole method, test current 250mA Max Soil Resistivity: 4-pole method (Wenner method) Earth Voltage: average rectification (between P(S)-ES) Earth Current: current clamp measurement
Test Frequency	128Hz/111Hz/105Hz/94Hz (Automatic Frequency Control)
Intrinsic Error and Accuracy	±2%rdg±3dgt (please refer to USER MANUAL for full readout)
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)
Set of current clamps (Φ70mm, 2m lead)
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), JJG 1054-2009 (Clamp grounding resistance meter)

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
ERT-50R	Digital Earth Resistance Tester with current clamps	800350

Mass

2.3kg/5.0lbs approx. (main unit)
1.6kg/3.5lbs approx. (test wires)
1.1kg/3.0lbs approx. (current clamps)
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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