EAGLOTEST

Down-to-earth instruments you can trust!

S480

4 TERMINAL EARTH TESTER

MIN. 0.001 Ω RESOLUTION · UP TO 200 kΩ



MEASURE THE GROUND. FILTER THE NOISE.

Earth resistance, Wenner soil resistivity and ground-voltage testing - one field kit.

FFT/AFC processing, automatic frequency selection and interference detection help improve measurement stability in noisy field conditions. Save up to 300 results for PC review.

Built for Reliable Ground Testing

4-Terminal Precision

Separate current and voltage paths for accurate field testing.

Interference Rejection

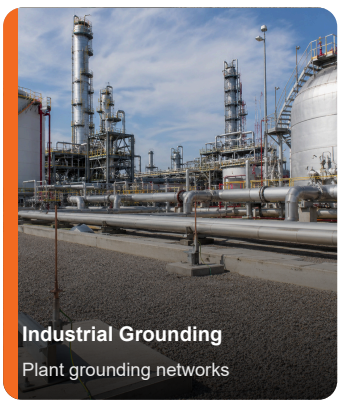
Automatic frequency selection helps stabilize readings in noisy sites.

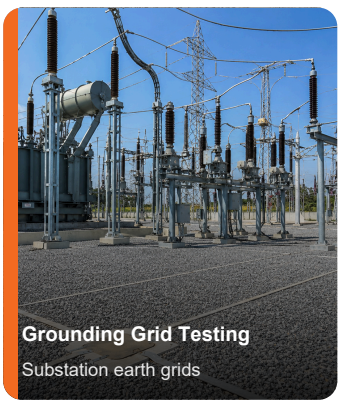
Wenner Soil Testing

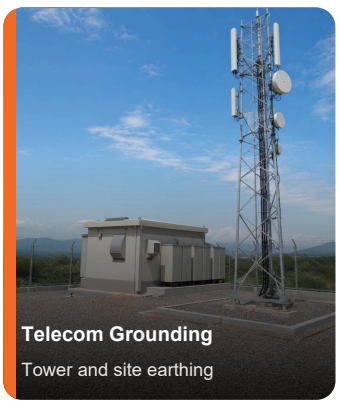
4-point soil resistivity testing supports site assessment.

Where It Works









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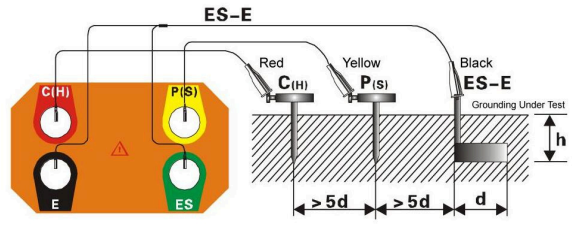
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Two Core Field Setups

Use 4-terminal mode when lead/contact effects matter.
Use Wenner mode to evaluate soil resistivity for grounding design.

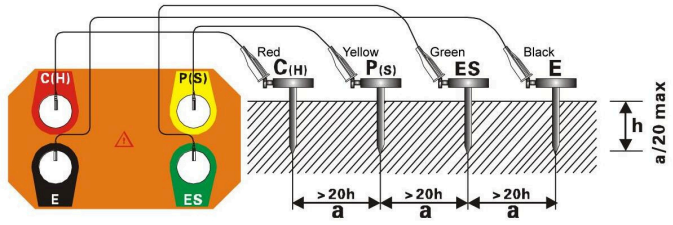
4-Terminal Earth Resistance

E / ES → ground under test | P(S) / C(H) → auxiliary electrodes



Soil Resistivity - Wenner Method

C(H) · P(S) · ES · E → four electrodes in one line



Field Test Workflow

1 — CHECK GROUND VOLTAGE
For REARTH, verify C(H)-E or P(S)-ES is below 20 V.

2 — CONNECT
Arrange and connect the required 2T, 3T, 4T or Wenner leads.

3 — SELECT & TEST
Select REARTH or ρ EARTH; set spacing a for Wenner, then press TEST.

4 — HOLD & SAVE
Press HOLD to freeze and automatically save the result.

Technical Specifications

MEASUREMENT

Earth resistance (R)	**0.000 Ω to 200 kΩ**
Minimum resistance resolution	**0.001 Ω**
Accuracy, 0 to 10 kΩ	**±2% rdg ±5 dgt**
10 to 100 kΩ	**±3% rdg ±5 dgt**
100 to 200 kΩ	**±3.5% rdg ±5 dgt**
Soil resistivity (ρ)	**0.00 Ωm to 9999 kΩm**
Minimum soil resolution	**0.01 Ωm**
Ground voltage	**AC 0.001 to 600.0 V (50/60 Hz)**
Test frequency	**412 / 825 / 1280 Hz, auto**
Electrode spacing (Wenner)	**1 to 100 m**

Resistance accuracy: 26 ±3 °C, <70% RH. Interference above 5 V may affect readings.

SYSTEM & FIELD

Open-circuit voltage	**AC 75 V max**
Automatic ranging	**Resistance-dependent**
Display	**LCD with white backlight**
Data storage	**Up to 300 sets**
PC data	**View / upload / save / print**
Power	**11.1 V DC, 2600 mAh Li-battery**
Operating	**−10 °C to 40 °C; <80% RH**
Dimensions	**320 × 275 × 145 mm**
Weight	**Approx. 2.66 kg incl. battery**

Safety & Compliance

Designed in accordance with IEC 61010-1

What's in the Box

- S480 Main Unit
- Tool Bag
- 4 × Ground Rods
- 4T Test Leads
- 2T Test Leads
- USB Cable / Software
- Manual / Warranty / CoC
- Charger