

Fluke 1625 and 1623 Geo Earth Ground Testers



Fluke 1625



Fluke 1623

The Fluke 1625 and 1623 Earth Ground Testers not only measure ground resistance using the classic “fall of potential test,” but also enable time saving testing using “selective” and “stakeless” methods. “Selective” testing does not require the electrode under test to be disconnected during the measurement, thus increasing safety. The simple “stakeless” method quickly checks ground connections using two current transformers (probes) clamped around the ground conductor under test. Offering “one-button” simplicity, the 1623 is an all-in-one earth ground tester, while the 1625 has extra versatility for more demanding applications.

The 1623 is perfect for performing predictive maintenance checks of commercial and industrial applications. The 1625 is intended for electrical utility or other electrically noisy environments.

Earth ground resistance and soil resistivity should be measured when:

- Designing earth ground systems
- Installing new ground system and electrical equipment
- Periodically testing ground and lightning protection systems
- Installing large electrical equipment such as transformers, switchgears, machines, etc.

Specifications

Features	1625	1623	1621
One-button measurement concept	—	•	•
3-pole earth ground measurement	•	•	•
4-pole earth ground measurement	•	•	—
4-pole soil resistivity testing	•	•	—
2-pole resistance measurement ac	•	•	•
2-and 4-pole resistance measurement dc	•	—	—
Selective testing, no disconnection of ground conductor (1 clamp)	•	•	—
Stakeless testing, quick ground loop testing (2 clamps)	•	•	—
Measuring frequency 128 Hz	—	•	•
Earth impedance measurement at 55 Hz	•	—	—
Automatic frequency control (AFC), 94 Hz to 128 Hz	•	—	—
Measuring voltage switchable 20 V/48 V	•	—	—
Programmable limits, settings	•	—	•
Continuity with buzzer	•	—	—
Dust/water resistance	IP 56	IP 56	IP 40
Safety rating	CAT II 300 V	CAT II 300 V	CAT II 600 V
Two-year warranty	•	•	•

* In favorable conditions (optimal target surface, room temperature) up to 10 m (33 ft). In unfavorable conditions, such as intensive sunshine, very weak reflecting target surface, or large temperature fluctuations, measuring accuracy may deteriorate to approx. ± 0.25 mm/m (± 0.003 in/ft) for distances above 10 m (33 ft).

** In favorable conditions (optimal target surface, room temperature) up to 10 m (33 ft). In unfavorable conditions, such as intensive sunshine, very weak reflecting target surface, or large temperature fluctuations, the deviation over distances 10 m (33 ft) can increase by approx. ± 0.15 mm/m (± 0.0018 in/ft).

Ordering information

Included accessories	Models
Test leads, alligator clips, users manual.	FLUKE-1625 Advanced GEO Earth Ground Tester FLUKE-1623 Basic GEO Earth Ground Tester
Test leads, alligator clips, stake/reel set 4-pole, selective/stakeless clamp set, rugged carrying case, users manual.	FLUKE-1625 KIT Advanced GEO Earth Ground Tester Kit FLUKE-1623 KIT Basic GEO Earth Ground Tester Kit

These products are for unpowered installations measuring grounding connections.

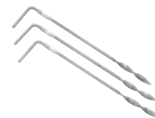
Recommended accessories



EI-1623
Selective/stakeless
clamp set for 1623



EI-1625
Selective/stakeless
clamp set for 1625



ES-162P3
Stake/reel set for
3-pole measurements



ES-162P4
Stake/reel set for
4-pole measurements



EI-162BN
Split Core Transformer
for use with Fluke 1625

Recommended kits



Fluke 1625 Kit

- Fluke 1625 tester
- Two test leads
- Four earth ground stakes
- Three cable reels with wire (2-25 m, 1-50 m)
- Two clamps (one inducing, one sensing)
- Rugged carrying case



Fluke 1623 Kit

- Fluke 1623 tester
- Two test leads
- Four earth ground stakes (2 m to 25 m)
- Three cable reels with wire (2 m to 25 m, 1 m to 50 m)
- Two clamps (one inducing, one sensing)
- Rugged carrying case

Check price and availability at
www.fluke.com/wtb