



**Cambridge Instruments
& Engg. Co.**

EST. 1963 · HOWRAH, INDIA

EARTH TESTER · HAND-DRIVEN, METAL BODY

CIE/222M

Hand-driven earth tester · 3-terminal and 4-terminal types · single to five-range

01 KEY FEATURES

- Hand-driven generator
- Centrifugal governor
- 3-terminal and 4-terminal types
- Anti-magnetic aluminium body
- Collapsible generator handle
- Protective flap over scale

Supplied as base instrument only - testing kit and carrying case available at extra cost.



CIE/222M · EARTH TESTER

02 TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
MEASUREMENT	
Terminal Types	3-terminal (earth resistance) or 4-terminal (+ soil resistivity)
Range Configuration	Multiple range options available - specify at order
Accuracy	±5% (as per IS: 9223/1979)
Scale Length	80 mm (approx.)
GENERATOR	
Generator Type	Hand-driven generator, centrifugal governor
Rotation Speed	160 r.p.m.
TEST & SAFETY	
High Voltage Test	2 KV A.C. (r.m.s.), 1 min., circuit to containing case
Insulation Resistance Test	Better than 25 MΩ at 500V D.C.
GENERAL	
Body	Anti-magnetic aluminium
Dimensions (L×W×H)	110 × 128 × 190 mm (approx.)
Weight	2.5 kg (approx.)
Warranty	12 months against manufacturing defects only

Custom ranges and configurations can also be built against specific requirements.

03 APPLICATIONS

- Earth resistance measurement for power circuits and lightning protection systems
- Telecommunications and railway electrification earthing checks
- Domestic and industrial electrical installation earthing
- 4-terminal type: soil resistivity surveys for civil engineering projects (tunnels, drainage, sewerage)

04 OPTIONAL ACCESSORIES

- + Testing kit - 3-terminal: 2 spikes (45cm), 3 wire spools (10/20/30m), 1 hammer, bag
- + Testing kit - 4-terminal: 4 spikes (45cm), 4 wire spools (10/20/20/30m), 1 hammer, bag
- + Carrying case
- + Any other range - on request