

Test & Measuring Instruments

ANALOG EARTH RESISTANCE TESTER



CE

1805 ER

WHY "GROUNDING TEST" IS NECESSARY ?

"Grounding" has a few different purposes, such as the safety and stability of the electrical circuits. Listed below are more info about it.

1. Power system to the ground:
The purpose is preventing the secondary side from the damage of the primary side. It's necessary for users' safety.
2. Equipment to the ground:
Connect equipments or shells to the ground. The purpose is protecting human being from the leakage of the equipments.
3. Electrical signal to the ground:
Set up a "Zero volt" reference point or a loop path for all different signals. The purpose is for the correct operation of measuring and safety device.
4. Grounding for shielding:
To prevent static electricity.
To prevent noise, electromagnetic interference (put shielding).
Application: shielding room, cable and communication wires to the ground, Equipments' guard terminals to the ground, power transformers and filters to the ground.

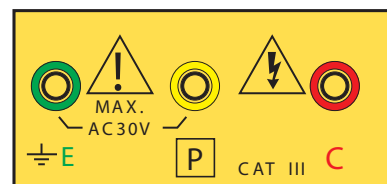
FEATURES

- High quality Taut Band movement.
- Capable of measuring earth voltage (Vac).
- 2mA measuring current permits the testing of earth resistance without tripping earth leakage current circuit breakers in the circuit under test.
- In addition to the facility for precision measurement, test leads for simplified two wire measuring system also supplied as standard accessories.
- Battery operated.
- Battery test indication.
- EN/IEC 61010-1 CAT III 150V
- Calibration performed with supplied test leads.

SPECIFICATIONS

| | |
|-------------------------|---|
| Measuring Ranges | Earth Resistance 0-10Ω/0-100Ω/0-1000Ω Earth Voltage 0-30V AC (40-500Hz) |
| Accuracy | Earth Resistance ± 3% of full scale Earth Voltage ± 2.5% of full scale |
| Measuring System | Earth Resistance by constant current inverter. 820Hz, approx. 2mA. |
| Open Circuit Indication | LED unlit |
| Power Source | 1.5V(R6P)×8 |
| Dimensions | 170(L)×165(W)×92(D)mm |
| Weight | Approx. 1000g(battery included) |
| Accessories | Test leads (AL-36: red-15m yellow -10m green -5m +AL-33) Auxiliary earth spikes. Simplified measurement probe. Heavy-duty case Shoulder belt Instruction manual Batteries |

Test Leads Connections



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