

Three Terminal Ground Resistance Tester



- Simple operation
- Quick, routine single electrode tests
- Direct readout in ohms

DESCRIPTION

The Three-Terminal Ground Resistance Tester is the economical choice for electrical contractors, plant electricians, telephone and CATV technicians making routine ground resistance tests on single electrodes and other simple grounding systems. The instrument is easy to use for quick measurement of resistances from 0.5 to 500 ohms.

Because factors such as seasonal variations in temperature, moisture and salt content affect soil resistivity, periodic tests are essential to ensure that resistance to ground remains at a safe value.

The instrument is simple to operate:

- Drive probes and hook up the leads.
- Push switch to READ and ground resistance is displayed directly.
- If reading is questionable, switch to CHECK to verify test lead continuity and probe resistance.

Designed for simplicity of use, the instrument is operated by a single three-position switch to read the measurement, check the probe resistance and turn the instrument off. Measurements are displayed directly in ohms; range changing, multipliers or calibration adjustments are not necessary.

APPLICATIONS

The instrument can be used to make the usual fall-of-potential ground resistance measurements. Two models are available, one for testing in the vicinity of 60-Hertz power systems; the other near 50-Hertz systems. Applications include testing grounds of:

- Utility poles
- Distribution transformers
- Residential wiring systems
- Lightning arresters
- Computer grounds
- Machinery safety grounds
- Telecommunication and data transmission systems
- Railway electric substations and signal systems
- Antistatic grounds

FEATURES AND BENEFITS

- Measures ground resistance down to 0.5 ohm
- Reads directly in ohms on a single range scale
- Stable calibration — requires no field adjustments
- Checks probe resistance and battery condition
- Powered by replaceable C cells
- Limits output to 50 volts open circuit, 5 mA short circuit
- Weighs less than 3 lb (1.5 kg)

SPECIFICATIONS

Input

Power Source
Four C alkaline batteries

Output

Test Frequency
Cat. No. 250260: 135 Hz
Cat. No. 250261: 121.6 Hz
Maximum Output Voltage: 50 V
Maximum Test Current: 5 mA
Accuracy

1 to 100 Ω: ±2% of full-scale deflection
 500 Ω: ±4% of full-scale deflection

Range

0.5 to 500 Ω

Interference

2 V peak to peak

Dimensions

7.5 H x 6.5 W x 4.75 D in.
 (190 H x 165 W x 120 D mm)

Weight

2.8 LB (1.3 KG)



Accessory kit, Cat. No. 250560, includes probes, leads, ground rods and a calibration standard

ORDERING INFORMATION

| Item [Qty] | Cat. No. | Item [Qty] | Cat. No. |
|---|-----------|--|-----------|
| Three-Terminal Ground Resistance Tester | | | |
| 60 Hz | 250260 | | |
| 50 Hz | 250261 | | |
| Included Accessories | | Optional Accessories | |
| Test record cards | 250942 | Accessory kit | |
| Batteries, C cell [4] | 19111 | Includes three color-coded test leads, 12, 31 and 50 ft (3.6, 9.4 and 15 m) [1 set]; ground rods, 11 in. (250 mm) [1 pr]; and a calibration standard | 250560 |
| Instruction manual | AVTM25-J4 | Test leads, color-coded, 12, 31 and 50 ft (3.6, 9.4 and 15 m) [1 set] | 250574 |
| | | Ground rods | |
| | | 11 in. (250 mm) [1 pr] | 250584 |
| | | 20 in. (510 mm) [1 pr] | 250580 |
| | | 30 in. (760 mm) [1 pr] | 250582 |
| | | Field calibrator | 10245 |
| | | Canvas case for leads and rods only | 250578 |
| | | Instrument case | 217719 |
| | | Instrument and accessory case | 250855 |
| | | "Getting Down to Earth" manual | AVTM25-TA |

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