

Digital Clamp Meters
Digital Earth Testers
Digital Multimeters
High Voltage Detector
Insulation Testers
Micro Ohm Meters



Digital Earth Tester **DET-20**

FEATURES

- 3½ digit LCD display with Max Reading 1999.
- Earth Resistance Ranges of 0.01Ω to 1999Ω .
- Rechargeable Internal Ni-MH Battery.
- 4 Wire Soil Resistivity Measurement.
- Measurement Method - 3 terminal & 4 terminal.
- Type tested as per IS-9223.



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GENERAL SPECIFICATIONS

- **Earth Resistance Ranges**
0.01 Ω To 19.99 Ω
0.1 Ω To 199.9 Ω
1 Ω To 1999 Ω
- **Accuracy (25° C \pm 5° C)**
 \pm 1.5% of reading \pm 5 digits valid from 10% of reading to 95% of the range.
- **Test Frequency** : 128 Hz \pm 0.5 Hz
- **Test Current**
20 - Ohm Range : 10 mA AC rms
200 - Ohm Range : 1 mA AC rms
2000 - Ohm Ranges : 100 μ A AC rms
Test current is generally constant throughout the range.
- **Earth Voltage Range** : 0 - 200VAC , **Resolution** : 0.1V, **Accuracy** : 2% of Range.
- **Interference**
Interference voltages of 20 V \pm 5% peak-to-peak, 50 Hz in the potential circuit will have a maximum effect of \pm 1% on the reading obtained for the 20 Ω to 2 k Ω ranges.
- **Minimum Open Circuit Output Voltage** : 36 V Approx.
- **Display** : 3½ digits LCD, max. Reading 1999
- **Influence of Temperature** :
 $< \pm$ 0.2% per °C over the temperature range 0-20°C and 28-55 °C.
- **Temperature Range:**
Operating : 0°C to +55°C
Storage : - 20°C to +70°C
- **Humidity**
Operating : 95% RH non condensing max. at 40°C
Storage : 93% RH max. at 55°C
Flash Test : 3 kV AC.
- **Voltage Withstand**
In the event of a system fault, the instrument will withstand 240V AC, applied between any two terminals.
- **Dimensions** : Approx. 180 (H) x 100 (W) x 54 (D)mm.
- **Weight** : Approx. 550gms.
- **Power supply** : Internal, rechargeable Ni-MH 1.2V, 600mAh x 8 Nos.
- **Charging time** : Recommended 16hrs.
- **Single Charge Battery Life** : Approximately 5 - 6 hrs of continuous operation on mid ranges.

STANDARD ACCESSORIES

1. Operating Instruction Manual
2. Battery Charger.

OPTIONAL ACCESSORIES

- Carrying bag containing
- a. Four spikes of 10 mm dia, 450 mm. long.
 - b. 10 m, 20 m, 30 m & 40 m of cable on a winder as standard.
 - c. Hammer

APPLICATIONS

- Outdoor Earth Testing.
- Substations.
- Captive Power Plants.
- Soil Resistivity for new Installations and many more applications.



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