



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.

GENERAL SPECIFICATIONS

- **Earth Resistance Ranges**
0.01Ω To 19.99 Ω
0.1Ω To 199.9 Ω
1Ω To 1999 Ω
- **Accuracy (25° C ± 5° C)**
± 1.5% of reading ±5 digits valid from 10% of reading to 95% of the range.
- **Earth voltage accuracy** : 2% of Range.
Earth voltage resolution : 0.1V
- **Test Frequency** : 128 Hz ±0.5 Hz
- **Test Current**
20-Ohm Range : 10 mA AC rms
200-Ohm Range : 1 mA AC rms
2000-Ohm Ranges : 100 μA AC rms
Test current is generally constant throughout the range.
- **Interference**
Interference voltages of 20 V ±5% peak-to-peak, 50 Hz in the potential circuit will have a maximum effect of ±1% on the reading obtained for the 20Ω to 2 kΩ ranges.
- **Minimum Open Circuit Output Voltage** : 36 V Approx.
- **Display** : 3½ digits LCD, max. Reading 1999
- **Influence of Temperature** :
< ± 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.

- 4 Wire Soil Resistivity Measurement.
- Measurement Method - 3 terminal & 4terminal.
- Type Tested as per IS-9223.
- Earth Voltage Measurement up to 200V.



we have a solution....

STANDARD ACCESSORIES

1. Operating Instruction Manual
2. Battery Charger.
3. 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

APPLICATION

- Outdoor Earth Testing.
- Substations.
- Captive Power Plants.
- Soil Resistivity for new Installations.

D83/PC/ET-01/Rev-02

NOTES

1. The Instrument is accompanied with Test & calibration sheet. 2. Test Facilities can be provided at the factory with the available test set-ups only. 3. The Company's policy is continuous improvement of its products. we therefore reserve the Right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 1/10th of range to FS. 5. Accuracy Specified for temperature range of 25°C ± 5°C & 55%RH ± 10%.