

# Specification

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<b>Earth Resistance Ranges</b>	0,001 — 1,999 $\Omega$ 0,01 — 19,99 $\Omega$ 0,1 — 199,9 $\Omega$ 1 — 1999 $\Omega$
<b>Accuracy (20°C)</b>	±2% of reading ±2 digits.
<b>Temperature Effect</b>	±0,1% per °C.
<b>Working Temperature Range</b>	-15°C to +50°C.
<b>Storage Temperature Range</b>	-30°C to +70°C
<b>Humidity</b>	95% R.H. combined with cyclic temperature changes of 25°C to 40°C (BS2011: Part 2.1, Db: 1977, IEC 68-2-30: Test Db: 1969)
<b>Test Frequency</b>	128Hz reversing d.c.
<b>Interference</b>	Steady interference voltages at d.c., 50 or 60Hz will be rejected. The effect of transient noise is minimised by a switched filter. Maximum interference:— 2 $\Omega$ range low current ± 5V peak 2 $\Omega$ range normal current ± 10V peak all other ranges and currents ± 20V peak
<b>Filter Time Constant</b>	Normal (filter switch 'OUT') 1 second. Long (filter switch 'IN') 10 seconds.
<b>Test Current</b>	High 40mA Normal 10mA Low 5mA
<b>Maximum Current Spike Resistance</b>	The maximum permissible resistance of the current loop depends on the test current selected:- High current 800 $\Omega$ Normal current 3,5k $\Omega$ Low current 7,5k $\Omega$

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**Maximum Potential Spike Resistance**

The input impedance between the potential terminals is  $2M\Omega$ . A maximum potential loop resistance of  $10k\Omega$  will give an additional error of 0,5%.

**Output Voltage**

50V maximum from the C1,C2 terminals.

**Display**

3½ digit l.c.d. maximum reading 1999.

**Power Supply**

Internal, rechargeable Ni Cd cells.

Battery life:—

6 hours minimum continuous on 'NORMAL' or 'LOW' test current.

2 hours minimum continuous on 'HIGH' test current.

Battery charging supply:—

200V—240V, 50 or 60Hz for the DET2 and 100V—120V, 50 or 60Hz for the DET2/110.

Battery charging time:—

12 hours for full charge.

Alternative power supply:—

external 12V source, e.g. car battery.

**Fuses**

Battery fuse:— 3,15A (T) 20x5mm glass (slow blow)

Mains supply:— DET2 — 100mA 20x5mm ceramic.

DET2/110—250mA 20x5mm glass.

**Safety Class**

Class I when cells are being charged.

Class III when operated.

(IEC 348 2nd. Edition 1978).

**Dimensions**

260 x 225 x 220mm approx.

(10¼ x 8¾ x 8¾ in. approx).

**Weight**

3,5kg (7,7lb)