



Having both battery and mains operation and four selectable DC test voltages (500V, 1kV, 2.5kV & 5kV), this tester measures insulation resistance from 100k $\Omega$  to 100G $\Omega$ . The large, clear analogue scale also displays AC or DC voltage up to 1000V. Latching test switch allows hands free testing.

With full over-voltage and over-current protection for measurements and 16 hours operation from rechargeable NiMH batteries, the E3511 comes complete in a rugged carry case. Standard accessories include locking 2m test leads with prods and clips.

## SPECIFICATIONS

### ENVIRONMENTAL

**Operating Temperature Range:** 15°C to +55°C

**Storage Temperature Range:** -25°C to +65°C

**Cold Temperature:** To IEC68-2-1

**Dry Heat:** To IEC68-2-2

**Damp Heat:** To IEC68-2-3

### ELECTRICAL

**Insulation Resistance Range:** 100k $\Omega$  to 100G $\Omega$

**Insulation Range Accuracy:**  $\pm 1.5\%$  of scale length

**Insulation Range Temperature Coefficient:** <0.04% of scale length

**Voltage Range:** 1000 volts AC or DC

**Voltage Range Accuracy:**  $\pm 1.5\%$  of scale length

**Test Voltages:** 500V, 1kV, 2.5kV, 5kV DC

**Test Voltage Accuracy:**  $\pm 5\%$  at 10M $\Omega$

**Break Point Current:** 0.5mA nominal

**Short Circuit Current:** 1.2mA nominal

**Ripple Voltage:** <10V peak to peak (R<10M $\Omega$ )

**Capacitor Charging Time:** 15 seconds nominal to charge a 2 $\mu$ F capacitor to 5kV

**Capacitor Discharge Time:** 2 seconds nominal to discharge a 2 $\mu$ F capacitor from 5kV to 50V

**Hum Rejection:** 2mA RMS on 5kV range

**Maximum Voltage on Measurement Terminals:** 1kV across H and L terminals;

1kV across H and guard; 250V across L and guard

**Internal Battery:** 12V, 3AH, NiMH

**Pack Battery Low Voltage:** 10.5 volts nominal

**Maximum Battery Consumption:** 400mA

**Battery Life:** 4 - 16 hours typical

**Internal Power Supply/Charger:** 240VAC,  $\pm 10\%$ , 50/60Hz, 18VA or 120VAC,  $\pm 10\%$

**Protection:** Over-voltage and over-current protection on measurement terminals; VDR on power inlet socket; GDT on L terminal

**Safety:** EMC: Meets EN 50081-1, EN 50082-1

LVD: Meets BS EN 61010

**Fuses:** 0.2A, F, HBC, ceramic, DIN fuse on power inlet; 0.63A, T, HBC, ceramic, DIN fuse on battery

### MECHANICAL

**Dimension:** 330mm (L) x 263mm (W) x 144mm (H)

**Case Material:** Yellow ABS, black and clear polycarbonate

**Weight:** 4.2kg (with batteries)

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**Martindale Electric Company Ltd.**

Metrohm House, Imperial Park, Imperial Way, Watford, Hertfordshire, WD24 4PP, UK

Tel: 01923 441717 Fax: 01923 446900 sales@martindale-electric.co.uk www.martindale-electric.co.uk