

MARTINDALE MM47 Digital Multimeter

● ● ● ELECTRIC

(IEC1010 CAT. III 600V)



CE

SPECIFICATIONS

Display: 3½ digit liquid crystal display (LCD) with a maximum reading of 1999.

Polarity: Automatic, positive implied, negative polarity indication.

Overrange: (OL) or (-OL) is displayed.

Zero: automatic.

Low Battery Indication: The “+ -” is displayed when the battery voltage drops below the operating level.

Measurement rate: 2.5 times per second, nominal.

Operating environment: 0°C to 50°C at < 70% R.H.

Storage temperature: -20°C to 60°C, 0 to 80% R.H.

Installation Categories: Category III: Fixed wiring and installations within a building.

Accuracy: Stated accuracy at 23°C ± 5°C, < 75% R.H.

Battery life: 200 hours typical with carbon-zinc.

Power: Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22, PP3.

Dimensions: 147mm (H) x 70mm (W) x 39mm (D).

Weight: Approx. 340g including holster.

Accessories: F1 - 20 x 5mm 500mA 250V ceramic FUSE500250 (pack of 3).

F2 - 1 x 1/4" 10A 600V ceramic - FUSE10600 (pack of 3).

Fused test leads to GS38 specification - TL55. Soft foam lined carry case - TC55. Optional 3 phase fused leads - TL58.

Calibration: £39.

DC VOLTS

Ranges: 200mV, 2V, 20V, 600V

Resolution: 100µV

Accuracy: ± (1.2% rdg + 1 dgt)

Input impedance: 10MΩ

Overload protection: 600VDC or AC rms
500V DC / 350V RMS 15 seconds on 200mV range

AC VOLTS: (50Hz - 500Hz)

Ranges: 200mV, 2V, 20V, 200V, 600V

Resolution: 1mV

Accuracy: ± (1.5% rdg + 4 dgts) on 200mV, 2V ranges
± (2.0% rdg + 4 dgts) on 600V range

Input impedance: 10MΩ

Overload protection: 600VDC or AC rms
500V DC / 350V RMS 15 seconds on 200mV range

RESISTANCE

Ranges: 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 2000MΩ

Resolution: 100mΩ

Accuracy: ± (1.2% rdg + 1 dgt) on 200Ω range
± (1.0% rdg + 1 dgt) on 2KΩ to 2MΩ ranges
± (2.0% rdg + 3 dgts) on 200MΩ range
± [(5.0% rdg - 10 dgts) + 10 dgts] on 2000MΩ range

Open Circuit volts: 0.3V dc typical (3.0V DC on 200Ω, 2000MΩ ranges)

Overload Protection: 500V DC or AC rms

CONTINUITY

Audible indication: Less than 100Ω

Response time: 100ms

Overload Protection: 500V DC or AC rms

DIODE TEST

Test current: 1.0mA ± 0.6mA

Accuracy: ± (3.0% rdg + 1 dgt)

Open circuit volts: 3.0V dc typical

Overload protection: 500V DC or AC rms

CAPACITANCE

Ranges: 20µF, 200µF, 2000µF, 20mF

Accuracy: ± (4.0% rdg + 10 dgts) on all ranges

Test Frequency: 21Hz

Test Voltage: < 3.5V

Input Protection: 0.1A / 250V fast acting fuse

FREQUENCY (Autoranging)

Ranges: 10Hz to 40KHz

Accuracy: ± (0.5% rdg + 2 dgts) on all ranges

Sensitivity: 2V RMS min.

Overload Protection: 500V DC or AC rms.

TEMPERATURE

Ranges: -20°C to 750°C, -4°F to 1400°F

Accuracy: ± (3.0% rdg + 2°C), ± (3.0% rdg + 4°F)

Sensor Type: K-type thermocouple

Overload Protection: 60V DC or 24V AC rms

PHASE INDICATOR

Frequency range: 45Hz to 450Hz

Voltage Range: 80V to 480V