

MARTINDALE
ELECTRIC

Specification

MM65

Digital Multimeter



ELECTRICAL

All specified accuracies are at 23°C ± 5°C, <75% RH for 1 year

Temperature coefficient: 0.1 x (specified accuracy) per °C (0°C to 18°C, 28°C to 50°C)

DC VOLTAGE

Ranges: 340mV, 3.4V, 34V, 340 V, 600V

Resolution: 0.1mV, 0.001V, 0.01V, 0.1V, 1V

Accuracy: ± (1.0 % of rdg + 2 dgts)

Input impedance: 340mV: >100 MΩ;
3.4V: 10 MΩ; 34V to 600V: 9.1MΩ.

Overload protection: 600V DC or AC rms

AC VOLTAGE (50Hz to 500Hz)

Ranges: 3.4V, 34V, 340V, 600V

Resolution: 0.001V, 0.01V, 0.1V, 1V

Accuracy: ± (2.0 % of rdg + 5 dgts)

Input impedance: 3.4V: 10MΩ; 34V to 600V: 9.1MΩ

Overload protection: 600V DC or AC rms

DC CURRENT

Ranges: 340μA, 3400μA, 34mA, 340mA, 10A *

Resolution: 0.1μA, 1μA, 0.01mA, 0.1mA, 0.01A

Accuracy: 340μA to 340mA ranges ± (2.0 % of rdg + 2 dgts)

10A range ± (3.0 % of rdg + 3 dgts)

*Current on 10A range applied for 60 seconds max followed by a 10 minute cooling period

Input protection: 0.5A/500V fast blow ceramic fuse

10A/500V fast blow ceramic fuse



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AC CURRENT (50Hz to 500Hz)

Ranges: 340 μ A, 3400 μ A, 34mA, 340mA, 10A *

Resolution: 0.1 μ A, 1 μ A, 0.01mA, 0.1mA, 0.01A

Accuracy: 340 μ A to 340mA ranges \pm (2.5% of rdg + 5 dgts)

10A range \pm (3.5 % of rdg + 5 dgts) *

* Current on 10A range applied for 60 seconds max followed by a 10 minute cooling period

Input protection: 0.5A/500V fast blow ceramic fuse 10A/500V fast blow ceramic fuse

RESISTANCE

Ranges: 340 Ω , 3.4k Ω , 34k Ω , 340k Ω , 3.4M Ω , 34M Ω

Resolution: 0.1 Ω , 0.001k Ω , 0.01k Ω , 0.1k Ω , 0.001M Ω , 0.01M Ω

Accuracy: 340 Ω to 340k Ω ranges \pm (1.5% of rdg + 4 dgts)

3.4M Ω range \pm (2.5% of rdg + 4 dgts)

34M Ω r range \pm (5.0% of rdg + 5 dgts)

Open circuit voltage: -0.45V DC (-1.2V DC on 340 range)

Overload protection: 500V DC or AC rms

CONTINUITY

Audible indication: < 35 Ω

Response time: 500ms

Overload protection: 500V DC or AC rms

DIODE TEST

Test current: 1.0mA approx

Resolution: 10mV

Accuracy: \pm (3.0% rdg + 3 dgts)

Audible indication: <0.25 V

Open circuit voltage: 3.0V DC typical

Overload protection: 500V DC or AC rms



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GENERAL


Display: 3¾ digit liquid crystal display with a maximum reading of 3400

Analog bargraph: 34 segments with measurement 12 times per second

Polarity: Automatic, positive implied, negative polarity indication

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

Zero: Automatic.

Low battery indication:  symbol is displayed when the battery voltage drops below the operating level

Measurement rate: 2 times per second, nominal

Auto power off: After approx 10 minutes

Operating environment: 0°C to 50°C at < 70% RH

Storage temperature: -20°C to 60°C at < 80% RH

Altitude: Up to 2000m

Power: Single standard 9 volt battery, NEDA 1604, JIS006P, IEC 6F22

Battery Life: 200 hours typical with carbon-zinc

Dimensions: 165mm (H) x 78mm (W) x 42.5mm (D)

Weight: Approx. 285g

Includes: TL16 test leads, 1 x spare fuse, 9V battery (installed) and instructions.

SAFETY:

Conforms to BS EN 61010-1, CAT III 600 V.

Class II Double Insulation.

Pollution Degree: 2 for indoor use.

TL16 test leads conform to BS EN 61010-031 CAT III 1000V, CAT IV 600V, 10A.

EMC: Conforms to BS EN 61326.