

MARTINDALE
ELECTRIC

Specification
MM64
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: 200mV, 2000mV, 20V, 200V, 600V
Resolution: 200mV, 2000mV, 20V, 200V, 600V
Accuracy: ± (0.5% of rdg + 1 dgt)
Input impedance: 10MΩ
Overload protection: 600V DC or AC rms
600V DC or AC rms for 15 seconds on 200 mV range

AC VOLTAGE (50Hz to 500Hz)

Ranges: 200mV, 2000mV, 20V, 200V, 600V
Resolution: 0.1mV, 0.001V, 0.01V, 0.1V, 1V
Accuracy: 200mV to 20V ranges ± (1.2% of rdg + 4 dgts)
200V to 600V range ± (2.0% of rdg + 4 dgts)
Input impedance: 10MΩ
Overload protection: 600V DC or AC rms. 600V DC or AC rms for 15 seconds on 200mV range

DC CURRENT

Ranges: 200µA, 20mA, 200mA
Resolution: 0.1µA, 0.01mA, 0.1mA
Accuracy: ± (1.0% of rdg + 1 dgt)
Input protection: 0.25A/500V fast blow ceramic fuse

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AC CURRENT (50Hz to 500 Hz)

Ranges: 200µA, 20mA, 200mA
Resolution: 0.1µA, 0.01mA, 0.1mA
Accuracy: ± (1.5% of rdg + 4 dgts)
Input protection: 0.25A/500V fast blow ceramic fuse

RESISTANCE

Ranges: 200Ω, 2kΩ, 200kΩ, 20MΩ
Resolution: 0.1Ω, 0.001kΩ, 0.1kΩ, 0.01MΩ
Accuracy: 200Ω to 200kΩ ranges ± (1.0% of rdg + 4 dgts)
20MΩ range ± (2.0% of rdg + 4 dgts)
Open circuit voltage: 0.3V DC (3.0V DC on 200Ω range)
Overload protection: 500V DC or AC rms

CAPACITANCE

Ranges: 200µF, 2mF, 20mF
Resolution: 0.1µF, 0.001mF, 0.01mF
Accuracy: ± (4.0% of rdg + 10 dgts)
Test frequency: 21Hz
Test voltage: < 3.0V
Input protection: 0.25A/500V fast blow ceramic fuse

FREQUENCY (Autoranging)

Ranges: 2kHz, 20kHz, 40kHz
Resolution: 0.001kHz, 0.01 kHz, 0.1kHz
Accuracy: ± (0.1% of rdg + 3 dgts)
Minimum input: 10Hz
Input sensitivity: 3.5V rms minimum
Overload protection: 500V DC or AC rms

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TEMPERATURE

Sensor type: type K thermocouple

Range	Resolution	Accuracy
200 °C	0.1 °C	-35 °C to 0 °C ± (3.0 % rdg + 3 °C) 0 °C to 200 °C ± (1.0 % rdg + 1 °C)
750 °C	1 °C	200 °C to 750 °C ± (3.0 % rdg + 3 °C)
200 °F	0.1 °F	-30 °F to 32 °F ± (3.0 % rdg + 6 °F) 32 ° to 400 °F ± (1.0 % rdg + 2 °F)
1400 °F	1 °F	400 °F to 1400 °F ± (3.0 % rdg + 6 °F)

Overload protection: 60V DC or 30V AC rms

CONTINUITY

Audible indication: less than 100Ω
Response time: 100ms
Overload protection: 500V DC or AC rms


DIODE TEST

Test current: 1.0mA approx
Accuracy: ± (1.5% rdg + 3 dgts)
Open circuit voltage: 3.0V DC typical
Overload protection: 500V DC or AC rms

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GENERAL

Display: 3½ digit liquid crystal display with a maximum reading of 1999
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: 2.5 times per second, nominal
Auto power off: after approx 25 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: 150 hours typical with carbon-zinc
Dimensions: 165mm (H) x 78mm (W) x 42.5mm (D)
Weight: Approx. 285g
Includes: TL16 test leads, Type K thermocouple, Magnetic strap, 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 61326-1

 **S J ELECTRONICS**
POWER • TEST & MEASUREMENT

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