

Specifications

(Values guaranteed for 6 months)
Reference Temperature: 23°C ± 1°C

DC Voltage:

Ranges:

200mV, 2V, 20V, 200V, 1000V

Resolution:

10µV, 100µV, 1mV, 10mV, 100mV

Accuracy:

2V to 1000V: ±(0.05% o.v.¹⁾ + 0.005% o.r.²⁾

200mV: ±(0.05% o.v. + 0.01% o.r.)

Maximum Input Voltage:

1000V_p for 20V, 200V and 1000V range

380V_p for 0.2V and 2V range

Input Impedance: 10MΩ || 70pF

Input Current: max. 10pA (23°C)

CMRR:³⁾ ≥ 100dB (50/60Hz ± 0.5%)

NMRR:⁴⁾ ≥ 60dB (50/60Hz ± 0.5%)

DC Current:

Ranges:

200mA, 2mA, 20mA, 200mA, 2A, 10A (20A)

Resolution:

10nA, 100nA, 1µA, 10µA, 100µA, 1mA

Accuracy:

0.2 to 200mA: ±(0.2% o.v. + 0.01% o.r.)

2A to 10A: ±(0.3% o.v. + 0.01% o.r.)

AC Voltage:

Ranges:

200mV, 2V, 20V, 200V, 750V

Resolution:

10µV, 100µV, 1mV, 10mV, 100mV

Accuracy:

0.2 to 20V:

at 40Hz to 10kHz: ±(0.5% o.v. + 0.07% o.r.)

at 20Hz to 20kHz: ±(1% o.v. + 0.07% o.r.)

200V and 750V:

at 40Hz to 100Hz: ±(0.5% o.v. + 0.07% o.r.)

at 20Hz to 100Hz: ±(1% o.v. + 0.07% o.r.)

Max. Input Voltage:

1000V_p for 20V, 200V and 750V range

380V_p for 0.2V and 2V range

Input Impedance: 10MΩ || 70pF

CMRR: ≥ 60dB (50/60Hz ± 0.5%)

Crest Faktor: up to 7

AC Current:

Ranges:

200µA, 2mA, 20mA, 200mA, 2A, 10A (20A)

Resolution:

10nA, 100nA, 1µA, 10µA, 100µA, 1mA

Accuracy: (40Hz to 100Hz)

0.2 to 200mA: ±(0.7% o.v. + 0.07% o.r.)

2A to 10A: ±(1% o.v. + 0.07% o.r.)

Resistance:

Ranges:

200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ

Resolution:

10mΩ, 100mΩ, 1Ω, 10Ω, 100Ω, 1kΩ

Accuracy: ±(0.1% o.v. + 0.01% o.r. + 50mΩ)

for 20MΩ to range: ±(0.2% o.v. + 0.01% o.r.)

Input protection up to 220V_{AC} (350V_p)

¹⁾ o.v. = of value; ²⁾ o.r. = of range

³⁾ Common Mode Rejection Ratio;

⁴⁾ Normal Mode Rejection Ratio

Values without tolerances are meant to be guidelines and represent characteristics of the average instrument.

Subject to change without notice



Digital Multimeter HM8011-3

- 4½-Digit Display (19.999 Indication)
- 0.05% DC Accuracy
- 28 Measurement Ranges
- Maximum Resolution 10µV, 10nA and 10mΩ
- True RMS Measurements
- 10MΩ AC/DC Input Resistance
- Current Measurement up to 20Amps

With over 20,000 units in the field, the highly versatile **HM8011-3 Digital Multimeter** has established a proven record of reliability. The DMM includes **28 measurement ranges** with a 4½ digit LED display of **19999** and a resolution of **10µV**, **10nA** or **10mΩ**, dependent on the measurement type and range.

Fast and logical operation of the **HM8011-3** is accomplished with a central rotary range switch and pushbutton function switches.

All AC & DC voltage ranges have a high input resistance of **10MΩ** and maintain low drift and offset current. Waveforms with **crest factors up to 7** can be accurately measured with the True RMS measurement capability. Up to **20A** of AC or DC current can be measured short term on the **10A** range.

Built in **protection circuits** on the input circuitry protect the instrument from damage caused from improper operation. Overloads of 1,000 Volts on the higher ranges and over 350 Volts peak in the lower ranges can be accommodated.. The use of **shrouded banana plugs** on the inputs minimize accidental contact with live circuitry.

The **HM8011-3 Digital Multimeter** is the instrument of choice when selecting a DMM. It provides reliable and accurate performance along with excellent long-term stability and simple operation.

Accessories supplied
Operators Manual
Silicon Test Leads HZ15

Optional accessories
High Voltage
Test Probe HZ59