

MD 9020 General Purpose Digital Multimeter

The MD 9020 is a high-quality digital multimeter, designed for everyday use in the laboratory and for maintenance and repair work in the field and in the industrial sector as well.

MEASURING FUNCTIONS:

- AC, DC voltage measurement.
- AC, DC current measurement.
- Capacitance measurement.
- Resistance measurement.
- Diode test.
- Frequency measurement.
- Continuity test (acoustic signalling).
- Temperature measurement.

KEY FEATURES:

- **Temperature measurement:** measures temperature in Celsius up to 300 °C and in Fahrenheit up to 572 °F.
- **Frequency measurement:** up to 1 MHz.
- **Lead alert:** incorrect lead connection alert.
- **Auto-ranging:** user can switch between auto and manual ranging.
- **Relative zero mode:** relative function for comparing the difference between signals or removing background noise.
- **Data Hold:** data hold feature freezes the display for later view.
- **MAX Hold:** MAX hold feature freezes the maximum measured value.
- **Safe:** CAT IV / 300 V, CAT III / 600 V and CAT II / 1000 V overvoltage protection.



APPLICATION:

- Mid level electrical testing.
- Mid level electronic fault finding.
- Field servicing.
- General purpose.

STANDARD SET:

- Multimeter MD 9020 with rubber holster
- Test lead with probe, 2 pcs
- 1.5 V battery, type AAA, 2 pcs
- Instruction manual
- Warranty



TECHNICAL SPECIFICATION:

Function	Range	Accuracy
DC voltage	400.0 mV ... 1000 V	from $\pm(0.3\% \text{ of reading} + 4 \text{ digits})$ to $\pm(1.0\% \text{ of reading} + 4 \text{ digits})$
AC voltage (50 ... 500 Hz)	400.0 mV ... 1000 V	from $\pm(1.5\% \text{ of reading} + 5 \text{ digits})$ to $\pm(4.0\% \text{ of reading} + 5 \text{ digits})$
DC current	400.0 μ A ... 10.00 A	from $\pm(1.2\% \text{ of reading} + 3 \text{ digits})$ to $\pm(2.0\% \text{ of reading} + 5 \text{ digits})$
AC current	400.0 μ A ... 10.00 A	from $\pm(1.5\% \text{ of reading} + 4 \text{ digits})$ to $\pm(2.0\% \text{ of reading} + 6 \text{ digits})$
Diode test	Open-circuit voltage $< 1.6 V_{bc}$, Test current 0.25 mA	
Resistance	400.0 Ω ... 40.00 M Ω	from $\pm(0.6\% \text{ of reading} + 4 \text{ digits})$ to $\pm(2.0\% \text{ of reading} + 4 \text{ digits})$
Temperature	-20 °C ... 300 °C	$\pm(2.0\% \text{ of reading} + 3 \text{ }^\circ\text{C})$
Frequency	50.00 Hz ... 1.000 MHz	$\pm(0.5\% \text{ of reading} + 4 \text{ digits})$
Capacitance	500.0 nF ... 3000 μ F	$\pm(3.5\% \text{ of reading} + 6 \text{ digits})$
Power supply	2 x 1.5 V batteries, type AAA	
Overvoltage category	CAT IV / 300 V; CAT III / 600 V; CAT II / 1000 V	
Dimensions	198 x 97 x 55 mm	
Weight	396 g	