

# Digital multimeters

## MD 9040 TRMS Industrial Digital Multimeter



CAT IV / 1000 V overvoltage category and TRMS measurement of AC current and voltage are key features of the MD 9040. That's why it is particularly suitable for performing measurements on power supply sources in the most demanding applications in the industrial sector. Its high accuracy, 2-line LCD display, diverse measurement functions, fast one-handed operation and outstanding value for money open up a wide range of possible uses.

### MEASURING FUNCTIONS

- TRMS AC, DC voltage measurement;
- TRMS AC, DC current measurement;
- Capacitance measurement;
- Resistance measurement;
- Diode test;
- Mains supply frequency measurement;
- Frequency of digital signals measurement;
- Continuity test (acoustic signalling).

### KEY FEATURES

- **TRMS:** accurate readings on sinusoidal and non-sinusoidal signals.
- **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.
- **PC Link:** test results can be downloaded to the computer via the optional PC software.
- **Frequency measurement:** up to 1 MHz.
- **Safety:** CAT IV / 1000 V overvoltage protection.
- **Easy to read:** large bright 4 digits 9999 counts dual LCD display.

### APPLICATION

- High level industrial testing;
- High level electronic fault finding;
- Field servicing;
- Heavy duty electrical testing.

## TECHNICAL SPECIFICATION

FUNCTION	Range	Accuracy
TRMS AC voltage (40 Hz ... 20 kHz)	60.00 mV ... 999.9 V	from $\pm(0.5\%$ of reading + 3 digits) to $\pm(3.0\%$ of reading + 4 digits)
DC voltage	60.00 mV ... 999.9 V	from $\pm(0.06\%$ of reading + 2 digits) to $\pm(0.12\%$ of reading + 2 digits)
DC current	600.0 $\mu$ A ... 10.00 A	$\pm(0.2\%$ of reading + 4 digits)
TRMS AC current (40 Hz ... 1 kHz)	600.0 $\mu$ A ... 10.00 A	from $\pm(0.6\%$ of reading + 3 digits) to $\pm(1.0\%$ of reading + 4 digits)
Diode test	2.000 V Open-circuit voltage <3.5 VDC, Test current 0.4 mA	$\pm(1.0\%$ of reading + 1 digit)
Resistance	600.0 $\Omega$ ... 60.00 M $\Omega$	from $\pm(0.1\%$ of reading + 3 digits) to $\pm(1.5\%$ of reading + 5 digits)
Mains frequency	15.00 Hz ... 50.00 kHz	$\pm(0.04\%$ of reading + 4 digits)
Frequency of digital equipment	5.00 Hz ... 1.000 MHz	$\pm(0.004\%$ of reading + 4 digits)
Capacitance	60.00 nF ... 25.00 mF	from $\pm(0.8\%$ of reading + 3 digits) to $\pm(6.5\%$ of reading + 5 digits)
Power supply	9 V battery (NEDA1604G, JIS006P, or IEC6F22)	
Overvoltage category	CAT IV / 1000 V	
Dimensions	208 x 103 x 64.5 mm	
Weight	635 g	

## ORDERING INFORMATION



### Standard set MD 9040

- Multimeter MD 9040 with rubber holster
- Test lead with probe, 2 pcs
- 9 V battery
- Instruction manual
- Warranty

## OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	AMD 9022	Magnetic Hanging Strap
	AMD 9100	Soft carrying pouch
	AMD 9050	USB interface set
	AMD 9026	Test lead with probe, 2 pcs
	AMD 9028	Alligator clip

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