

MD 9050 TRMS Heavy Duty Industrial Digital Multimeter

The MD 9050 ranks among the best multimeters on the market. High resolution and accuracy, 2-line LCD display, fast data acquisition and transfer (via optical interface), CAT IV / 1000 V, TRMS current and voltage measurement, non-contact voltage detection, conductance measurement, auto check function and fast one-handed operation are highlights of the multimeter. The MD 9050 is the ideal choice for demanding measurement tasks in industry, in the laboratories and in everyday repair and maintenance practice.

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).
- Conductance measurement.
- Electric field detection.
- Temperature measurement.

KEY FEATURES:

- **TRMS:** accurate readings on sinusoidal and non-sinusoidal signals.
- **Autocheck function:** automatic detection of AC voltage, DC voltage or resistance.
- **Auto-ranging:** user can switch between auto and manual ranging.
- **Temperature measurement:** measures T1, T2 and T1 + T2 temperature in Celsius and in Fahrenheit.
- **EF detection:** non-contact and probe-contact electric field detection.
- **Lead alert:** incorrect lead connection alert.
- **Relative zero mode:** relative function for comparing the difference between signals or removing background noise.
- **MAX/MIN/AVG:** recording of maximum, minimum and average values.
- **Data Hold:** data hold feature freezes the display for later view.
- **Peak Hold:** Crest (instantaneous peak) capture mode.
- **PC Link:** test results can be downloaded to the computer via the optional PC software.
- **Safety:** CAT IV / 1000 V overvoltage protection.
- **Backlight:** large bright 4 digits 9999 counts dual LCD display with backlight for working in dark conditions.

APPLICATION:

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

STANDARD SET:

- Multimeter MD 9050 with rubber holster
- Test lead with probe, 2 pcs
- Thermocouple probe, type K
- 9 V battery
- Instruction manual
- Warranty



TECHNICAL SPECIFICATION:

Function	Range	Accuracy
TRMS AC and AC+DC 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)
Autocheck (ACV)	9.999 V ... 999.9 V	$\pm(1.0\%$ 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)
Autocheck (DCV)	9.999 V ... 999.9 V	$\pm(0.5\%$ of reading + 3 digits)
DC current	600.0 μ A ... 10.00 A	$\pm(0.2\%$ of reading + 4 digits)
TRMS AC and AC+DC current (40 Hz ... 1 kHz)	600.0 μ 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	$\pm(1.0\%$ of reading + 1 digit)
Resistance	600.0 Ω ... 60.00 M Ω	Open-circuit voltage < 3.5 V _{DC} , test current 0.4 mA from $\pm(0.1\%$ of reading + 3 digits) to $\pm(1.5\%$ of reading + 5 digits)
Conductance	99.99 nS	$\pm(0.8\%$ of reading + 10 digits)
Autocheck (resistance)	600.0 Ω ... 60.00 M Ω	from $\pm(0.5\%$ of reading + 4 digits) to $\pm(2\%$ 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)
Temperature	-50 $^{\circ}$ C ... +1000 $^{\circ}$ C	$\pm(0.3\%$ of reading + 2 $^{\circ}$ C)
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	