

# MD 9016 Electrical Field Service Multimeter



The digital multimeter MD 9016 is a perfect combination of size, innovative functions and built-in PC communication. It is capable to detect and diagnose most electrical and electrotechnical problems. Display with large easy-to-read figures and one-handed operation make MD 9016 an extremely easy-to-use. This compact instrument combines a high level of functionality and small size and portability.

## MEASURING FUNCTIONS:

- AC, DC voltage measurement;
- AC, DC current measurement;
- Capacitance measurement;
- Resistance measurement;
- Diode test;
- Frequency measurement;
- Continuity test (acoustic signaling);
- Electric field detection;
- Temperature measurement.

## KEY FEATURES:

- **Auto-ranging:** user can switch between auto and manual ranging.
- **EF detection:** non-contact and probe contact electric field detection.
- **Relative zero mode:** relative function for comparing the difference between signals or removing background noise.
- **Hold:** data hold function freezes the display for later view.
- **PC Link:** test results can be downloaded to the computer via the optional PC software.
- **Safe:** CAT II / 1000 V, CAT III / 600 V and CAT IV / 300 V overvoltage protection.

## APPLICATION:

- HVAC (heating, ventilation and air conditioning) troubleshooting;
- Low level electrical testing;
- Low level electronic fault finding;
- Basic field servicing;
- Hobby work.

## Technical specifications

Function	Range	Accuracy
DC Voltage	60.00 mV ... 1000 V	From $\pm(0.4\%$ of reading + 5 digits) to $\pm(0.2\%$ of reading + 3 digits)
AC Voltage (50 Hz ~ 500 Hz)	60.00 mV ... 1000 V	$\pm(1.0\%$ of reading + 5 digits)
DC Current	600.0 $\mu$ A ... 10.00 A	From $\pm(0.5\%$ of reading + 5 digits) to $\pm(1.8\%$ of reading + 6 digits)
AC Current (50 Hz ~ 400 Hz)	600.0 $\mu$ A ... 10.00 A	From $\pm(1.0\%$ of reading + 3 digits) to $\pm(1.8\%$ of reading + 6 digits)
Diode Test	1.000V	$\pm(1.0\%$ of reading + 3 digits)
	Open-circuit voltage < 1.8 V DC, Test current 0.56 mA	
Resistance	600.0 $\Omega$ ... 60.00 M $\Omega$	From $\pm(0.5\%$ of reading + 4 digits) to $\pm(1.2\%$ of reading + 4 digits)
Capacitance	60.00 nF...3000 $\mu$ F	From $\pm(1.5\%$ of reading + 5 digits) to $\pm(2.0\%$ of reading + 5 digits)
Temperature	-50 $^{\circ}$ C ... 1000 $^{\circ}$ C	$\pm(0.3\%$ of reading + 3 digits)
	-58 $^{\circ}$ F ... 1832 $^{\circ}$ F	$\pm(0.3\%$ of reading + 6 digits)
Frequency of digital equipment	5.00 Hz ... 1.000MHz	$\pm(0.003\%$ of reading + 2 digits)
Mains frequency	10 Hz ... 50kHz	$\pm(0.003\%$ of reading + 3 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	161 x 80 x 50 mm	
Weight	340 g	

## Ordering information

Standard set

MD 9016



- Multimeter MD 9016 with rubber holster
- Test lead with probe, 2 pcs
- Thermocouple probe, type K
- 1.5 V battery, type AAA, 2 pcs
- Instruction manual
- Warranty



**METREL®**

Measuring and Regulation Equipment Manufacturer

METREL d.d.

Ljubljanska 77

SI-1354 Horjul

Tel: + 386 (0)1 75 58 200

Fax: + 386 (0)1 75 49 226

E-mail: [metrel@metrel.si](mailto:metrel@metrel.si)

<http://www.metrel.si>

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery. Subject to technical change without notice.