

Test Equipment

Bench Digital Multimeter

Pro-1000

**Engineers, Technicians,
Electricians, Educators,
Manufacturing,**

**Quality Control can all
use the PRO-1000 in
confidence with its
exceptional quality,
rugged design & housed
in high impact case
with convert multiple-
position handle.**



The Model PRO-1000A is a highly versatile, economically-priced, portable, bench type digital multimeter with a 4 1/2 digit LED display that can measure diodes, frequency, current, voltage, resistance, as well as test continuity & all for a very Low List Price of ONLY \$345.00

Features:

- True RMS Digital Multimeter with 4 1/2 digit (LED) display.
- Basic DC Voltage accuracy of 0.05 %
- Basic AC Voltage accuracy of 0.75 %
- Overload protection on all ranges
- AC/DC Voltage measurement up to 1000V DC and 750V AC
- AC/DC Current measurement up to 10A
- Resistance measurement up to 20MΩ
- Frequency Measurement up to 200kHz
- Audible continuity test
- Diode Test Voltage, 2V
- 110-120VAC @ 50 Hz/ 210-220VAC @ 50 Hz Input Voltage
- Weighs only 4.4lbs (approx. 2.0kg)
- Comes complete with User's Manual, 1 Set Test Leads, Power cord & Spare Fuse

Designed to meet CAT II (600V) safety standards, Engineers, Technicians, Electricians, Educators, Manufacturing, Quality Control can use the PRO-1000 in confidence with its rugged design, housed in high impact case with convert multiple-position handle and non-contact AC voltage (NCV) detection feature. The PRO-1000, fused & fully overload protected, and can be used with either 115V AC, or 230V AC (50-60 Hz) input voltages



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Specifications

*Important Note: All accuracies apply to 5% to 95% full scale of each range.

DC VOLTS

Range	Resolution	Accuracy	Impedance
2V	100uV	$\pm(0.05\% + 10d)$	10MΩ
20V	1mV		
200V	10mV		
1000V	100mV		

AC VOLTS

Range	Resolution	Accuracy		Impedance	
		50-60Hz	60-400Hz		
2V	100μV	$\pm(0.75\% + 10d)$	$\pm(1.5\% + 10d)$	10MΩ	
20V	1mV		$\pm(2.5\% + 10d)$		
200V	10mV				
750V	100mV				

DC CURRENT

Range	Resolution	Accuracy	Overload Protection
2mA	100nA	$\pm(1.0\% + 5d)$	2A/250V
20mA	1μA		
200mA	10μA		
2A	100μA		
*10A	1mA	$\pm(1.0\% + 10d)$	10A/250V

*10A range specified for 30 seconds maximum for each 15 minute interval.

AC CURRENT

Range	Resolution	Accuracy		Overload Protection
		50-60Hz	60-400Hz	
2mA	100nA	$\pm(0.75\% + 10d)$	$\pm(2.0\% + 10d)$	2A/250V
20mA	1μA			
200mA	10μA			
2A	100μA			
*10A	1mA			10A/250V

*10A range specified for 30 seconds maximum for each 15 minute interval.



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RESISTANCE

Range	Resolution	Accuracy	Overload Protection
2kΩ	0.1Ω	$\pm(0.2\% + 5d)$	600V DC or Peak
20kΩ	1Ω		
200kΩ	10Ω		
2MΩ	100Ω		
20MΩ	1kΩ		

FREQUENCY

Range	Resolution	Accuracy	Overload Protection
20kHz	1 Hz	$\pm(1.5\% + 5d)$	600V DC or Peak
200kHz	10 Hz		

- Frequencies under 500Hz requires a minimum amplitude of at least 4Vpp. Other sensitivities are not specified.
- Errors of less than 5 digits are added in the total measurement.

AUDIBLE CONTINUITY

Test Voltage	Threshold	Overload Protection
3V	Less Than 200Ω	600V DC or Peak

DIODE TEST

Test Voltage	Max. Test Current	Overload Protection
2V	Approx. 1.0mA	600V DC or Peak

Equipment Ratings

Plug and Socket: 3 wire AC power plug and 3 wire outlet

Power & Fuse Ratings

Input Voltage	Fuse	Power Max
103 ~ 126V AC (50/60Hz)	F 0.5A / 250V	10W
206 ~ 252V AC (50/60Hz)	F 0.2A / 250V	



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Specifications

Operating Environment:

Temperature: 0 °C to + 40°C (Accuracy Specified at 23 °C \pm 5 °C)

Humidity: Up to 85%RH to 40°C without temperature extremes which may cause condensation within the instrument.

Storage Environment:

Temperature: -20°C to 70°C

Humidity: <85%RH

Temperature Coefficient: 1.0x (Specified Accuracy) per °C for temp. < 18°C or > 28°C

Insulation Category: II

Pollution Degree: 2

Protection to IEC 529: Ordinary

Dimensions: 9.5" x 3.5" x 11" (240 x 90 x 280 mm)

Weight: 4.4 lbs (approx. 2.0kg)

Supplied Accessories

User's Manual-----1

Test Leads -----1

Power Cord -----1

Spare Fuse -----1



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