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Test Equipment

Bench Digital Multimeter

Pro-1000



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

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 convent multiple-
position handle.

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 convent 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	$\pm(0.05\% + 10d)$	10M Ω
20V	1mV		
200V	10mV		
1000V	100mV	$\pm(0.1\% + 5d)$	

AC VOLTS

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

DC CURRENT

Range	Resolution	Accuracy	Overload Protection
2mA	100nA	$\pm(1.0\% + 5d)$	2A/250V
20mA	1 μ A		
200mA	10 μ A		
2A	100 μ A	$\pm(1.0\% + 10d)$	
*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	1 μ A			
200mA	10 μ A			
2A	100 μ A	$\pm(1.0\% + 10d)$		
*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
2k Ω	0.1 Ω	$\pm(0.2\% + 5d)$	600V DC or Peak
20k Ω	1 Ω		
200k Ω	10 Ω		
2M Ω	100 Ω		
20M Ω	1k Ω	$\pm(1\% + 10d)$	

FREQUENCY

Range	Resolution	Accuracy	Overload Protection
20kHz	1 Hz	$\pm(1.5\% + 5d)$	600V DC or Peak
200kHz	10 Hz	$\pm(2.0\% + 5d)$	

- 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 200 Ω	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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Operating Environment:

Temperature: 0 °C to + 40°C (Accuracy Specified at 23 °C ±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

