

4 - 1/2 Digit Bench Top Digital Multimeter True RMS with RS232

B4004



B4004

- AC line or Battery operated
- 0.05% DC V Accuracy
- Measures Frequency to 220MHz
- MIN/MAX, Peak MIN/MAX and Relative modes
- Capacitance, and Temperature measurements
- Back lit display, Auto power off and Auto/Manual ranging
- True RMS AC Volts and Amps measurements
- Optically isolated RS232 interface
- PC Link software and RS232 to USB cable included
- CATII 1000V & CATIII 600V
- Can be used with clamp current transducers Protek 601C or 602C for high current measurements

SPECIFICATIONS

DC Voltage

Ranges: 200mV, 2V, 20V, 200V and 1000V
Best Resolution: 10 μ V
Accuracy: $\pm(0.05\% + 6d)$
Input Impedance: 10M Ω
Overload Volts: 1000V DC or 750V AC RMS

AC Voltage

Ranges: 200mV, 2V, 20V, 200V and 750V
Best Resolution: 10 μ V
Accuracy: $\pm(0.5\% + 30d)$ 40Hz to 60Hz
 $\pm(1.0\% + 30d)$ 60Hz to 5KHz
 $\pm(2.0\% + 30d)$ 5KHz to 10KHz
Input Impedance: 10M Ω
Overload Volts: 1000V DC or 750V AC RMS

DC Current

Ranges: 200 μ A, 2000 μ A, 20 μ A, 200mA, 10A
Best Resolution: 10nA
Accuracy: $\pm(0.15\% + 15d)$
Overload Protection: 0.3A/250V and 10A/250V fuse

AC Current

Ranges: 200 μ A, 2000 μ A, 20mA, 200mA, 10A
Best Resolution: 10nA
Accuracy: $\pm(1.0\% + 30d)$ 60Hz to 1KHz:
 $\pm(1.2\% + 30d)$ 1KHz to 5KHz:
Overload protection: 0.3A/250V and 10A/250V fuse

Resistance

Ranges: 200 Ω , 2K Ω , 20K Ω , 200K Ω , 2M Ω , 20M Ω
and 200M Ω
Best Resolution: 10m Ω
Accuracy: $\pm(0.1\% + 10d)$ 200 Ω to 2M Ω ranges
 $\pm(0.5\% + 10d)$ 20M Ω range
 $\pm(2.0\% + 10d)$ 200M Ω range

Logic Frequency

Ranges: 20Hz to 220MHz
Best Resolution: 1mHz
Accuracy: $\pm(0.06\% + 10d)$
Overload Protection: 250V

Linear Frequency

Input Range	Sensitivity(True RMS)	
	5Hz to 10KHz	10KHz to 100KHz
200mV	5mV	10mV
2V	50mV	100mV
20V	500mV	10V
200V	5V	10V

Temperature

Ranges: -30 $^{\circ}$ C to 1300 $^{\circ}$ C (-22 $^{\circ}$ F to 2372 $^{\circ}$ F)
Accuracy: $\pm(1\% + 2d)$

Duty Cycle

Ranges: 5% to 95%
Accuracy: $\pm 10\%$

Capacitance

Ranges: 20nF, 200nF, 2 μ F, 20 μ F, 200 μ F, 2000 μ F,
20mF, 200mF
Best Resolution: 10 pF
Accuracy: $\pm(1.2\% + 30d)$ 20nF to 20 μ F ranges
 $\pm(2.2\% + 30d)$ 200 μ F to 20mF ranges
200mF unspecified
Overload Protection: 250V

Diode test

Test Volt: 3V
Test Current: 0.6mA
Overload Protection: 250V

Continuity

Buzzer will sound @ <30 Ω Resistance
Overload Protection: 250V

Safety: IEC61010-1 CATII 1000V and CATIII 600V

General Specifications

Size: 9"(L) x 9.4"(W) x 3.3"(D)
Weight: 3.3 lbs
Power: 9V NEDA battery or 120V AC @ 60Hz
Accessories: Test leads, Operating manual, RS-232
cable to USB cable and PC Link software
Temp adapter & thermocouple