

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: 10µV
Accuracy: $\pm(0.05\% + 6d)$
Input Impedance: $10M\Omega$
Overload Volts: 1000V DC or 750V AC RMS

■ AC Voltage

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

■ DC Current

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

■ AC Current

Ranges: 200µA, 2000µA, 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: 200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ and 200MΩ
Best Resolution: 10mΩ
Accuracy: $\pm(0.1\% + 10d)$ 200Ω to 2MΩ ranges
 $\pm(0.5\% + 10d)$ 20MΩ range
 $\pm(2.0\% + 10d)$ 200MΩ 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° C to 1300 °C (-22°F to 2372°F)
Accuracy: $\pm(1\% + 2d)$

■ Duty Cycle

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

■ Capacitance

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

■ Diode test

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

■ Continuity

Buzzer will sound @ $<30\Omega$ 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

Mouser Electronics

Authorized Distributor

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