

## Bench Top Digital Multimeter

### B4100 5-1/2 Digit Programmable Multimeter

- 5-1/2 Digit multimeter with selectable count resolutions up to 200,000
- True RMS and measures frequency
- Selectable Count Resolutions: 2K, 20K, 200K
- Auto-ranging
- Trend plot display
- RS-232 interface standard and optional GPIB interface
- Min/Max/Avg, Relative error and comparison functions
- May be used on line voltages from 85V to 250V without any internal changes
- Software included
- Seven setups may be stored and recalled in memory



**B4100**

## SPECIFICATIONS ■

### [ B4100 ]

#### Display

Slow: Counts: 200,000; Digits: 5 ½  
 Medium: Counts: 20,000; Digits: 4 ½  
 Fast: Counts: 2,000; Digits: 3 ½

#### Specifications (at 25°C ±5°C)

##### DC Voltage:

Ranges: 2V, 20V, 200V, 1000V  
 Best Resolutions:  
 10µV (Slow), 100µV (Med), 1mV (Fast)  
 Accuracy: ±(0.05% + 3d)

##### Input impedance: 10MΩ

Overload protection: 1000V

##### AC Volts:

Ranges: 2V, 20V, 200V, 1000V  
 Best Resolutions: 100µV (Slow and Med), 1mV (Fast)  
 Accuracy: ±(0.5% + 5d) 45Hz to 450Hz  
 Overload Protection: 1000V  
 Crest Factor: 3:1

##### DC Current:

Ranges: 200µA, 200mA, 10A  
 Best Resolutions:  
 200µA: 1nA (Slow), 10nA (Med), 100nA (Fast)  
 200mA: 1µA (Slow), 10µ (Med), 100µA (Fast)  
 10A: 100µA (Slow), 1mA (Med), 10mA (Fast)  
 Accuracy: ±(0.1% + 5d), Max burden: 200mV  
 Overload protection: 0.5A/250V and 10/250V fuse

##### AC Current:

Best Resolutions:  
 200µA: 10nA (Slow and Med), 100nA (Fast)  
 200mA: 1µA (Slow), 10µA (Med), 100µA (Fast)  
 10A: 100µA (Slow), 1mA (Med), 10mA (Fast)  
 Accuracy: ±(0.5% + 5d), Max burden: 200mV  
 Overload protection: 0.5A/250V and 10A/250V fuse

##### Resistance:

Ranges: 200Ω, 2KΩ, 200KΩ, 2MΩ, 10MΩ  
 Best Resolutions:  
 1mΩ (Slow), 10mΩ (Med), 100mΩ (Fast)  
 Accuracy: ±(0.05% + 5d)  
 Overload Protection: 250V or AC RMS

##### Frequency:

Ranges: 200Hz, 2KHz, 20KHz, 200KHz  
 Best Resolutions:  
 1mHz(Slow), 10mHz (Med), 100mHz (Fast)  
 Accuracy: ±(0.05% + 2d)  
 Overload protection: 250V DC or AC RMS

##### Diode:

Range: 2V  
 Test Current: Approximately 1.0mA  
 Test Volts: Approximately 3V  
 Continuity: Buzzer will sound at 100Ω or less

##### Interface:

Type: RS-232  
 Connector: 9 Pin din  
 Baud Rate: 1200, 2400, 4800 or 9600 bps  
 GPIB: optional

##### General Specifications

Display: 128 x 64 pixel super twist LCD  
 Size: 3.3" H x 9.5" W x 10.5" D  
 Weight: 3.2 lbs  
 Operating Temperature: 0 to 50°C (32 to 120°F)  
 Power: 85V to 275V ±10%  
 Supplied Accessories: Manual, Power cord, BNC cable,  
 Software disk, RS-232 cable, Test Leads  
 Optional Accessories: GPIB interface