

# 3-3/4 Digit 4000 Count True RMS Bench Top DMM with RS-232

B940

- True RMS AC volts and amps measurements
- Capacitance and Frequency measurements
- Back-lit display and Auto/Manual ranging
- MIN/MAX and Relative mode
- Delay hold mode
- AC Line or Battery Operated RS-232 Interface with software



**B940**

## ■ SPECIFICATIONS

### DC Voltage

Range: 400mV, 4V, 40V, 400V and 1000V  
Best Resolution: 0.1mV  
Accuracy:  $\pm(0.3\% + 2D)$   
Input Impedance: 10M $\Omega$   
Overload Volts: 1000V DC or 750V AC RMS

### AC Voltage

Range: 4V, 40V, 400V and 750V  
Best Resolution: 1.0mV  
Accuracy:  
 $\pm(0.8\% + 5D)$  45Hz to 450Hz  
 $\pm(1.2\% + 5D)$  45Hz to 1KHz  
Input Impedance: 10M $\Omega$   
Overload Volts: 1000VDC or 750V AC RMS

### DC Current

Ranges: 4mA, 40mA, 400mA and 10A  
Best Resolution: 1 $\mu$ A  
Accuracy:  $\pm(0.8\% + 5D)$   
Overload protection: 0.5A /250V and 15A/250V fuse

### AC Current

Ranges: 4mA, 40mA, 400mA and 10A  
Best Resolution: 1 $\mu$ A  
Accuracy:  
 $\pm(1.5\% + 5D)$  45Hz to 400Hz: 4mA to 400mA ranges  
 $\pm(2.0\% + 5D)$  45Hz to 400Hz: 10A range  
Overload protection 0.5A /250V and 15A/250V fuse

### Resistance

Range: 400 $\Omega$ , 4K  $\Omega$ , 40K $\Omega$ , 400K $\Omega$ , 4M $\Omega$ , 40M $\Omega$   
Best Resolution: 0.1 $\Omega$   
Accuracy:  $\pm(0.5\% + 5D)$  400 $\Omega$  to 400K $\Omega$  ranges  
 $\pm(1\% + 5D)$  4M $\Omega$  range  
 $\pm(1.5\% + 5D)$  40M $\Omega$  range

### Frequency

Range: 100Hz, 1KHz, 10KHz and 600KHz  
Best Resolution: 0.01Hz  
Accuracy:  $\pm(0.1\% + 2D)$   
Sensitivity:  
100mV RMS, 1Hz to 20KHz  
500mV RMS, 20KHz to 600KHz  
Overload: 250V

### Capacitance

Range: 4nF, 40nF, 400nF, 4 $\mu$ F, 40 $\mu$ F  
Best Resolution: 0.1pF  
Accuracy:  $\pm(2\% + 4D)$  4nF range (Relative Mode)  
Overload: 250V

### Converter

Display: 10 counts per 1mV DC  
Accuracy:  $\pm(0.3\% + 5D)$   
Overload: 250V

### Diode test

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

### Continuity

Buzzer: will sound at  $< 40\Omega$  Resistance  
Overload: 250V

### General Specifications

Size: 3.3" H x 9" W x 9.4" D  
Weight: 3.3 lbs  
Power: 9V NEDA battery or 90 to 132VAC / 198 to 264VAC @ 50/60Hz (Adapter Supplied)  
Accessories: Manual, Test leads, 9v Battery, RS-232 cable, Software