

B845 4-1/2 Digit Digital Multimeter

- 4-1/2 digit LCD display with polarity indicator
- .05% DC voltage accuracy
- 10 μ V AC & DC voltage resolution
- 10nA current resolution
- 10m Ω Resistance resolution
- Data hold switch
- Measures current to 10 Amps
- 200 μ A AC/DC Current Range

**B845****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 ■

[B845]

Volts DC: Ranges: 200mV, 2V, 20V, 200V, 1000V
 Best Resolution: 10 μ V
 Accuracy: \pm (0.05% Rdg + 2D)
 Maximum Input Volts: 1000V DC or 750V AC RMS
 Input Impedance: 10M Ω

Volts AC Ranges: 200mV, 2V, 20V, 200V, 1000V
 Best Resolution: 10 μ V
 Accuracy: \pm (0.5% Rdg + 10D)

Max. Input Volts: 1000V DC or 750V AC RMS
 Input Impedance: 10M Ω

Resistance: Ranges: 200 Ω , 2K Ω , 20K Ω , 200K Ω , 2M Ω , 20M Ω
 Best Resolution: 10m Ω

Accuracy: \pm (0.2% Rdg + 5D)

Maximum Input Volt: 250V DC or AC peak
DC Current: 200 μ A, 2mA, 20mA, 200mA, 10A

Best Resolution: 10nA

Accuracy: \pm (0.3% Rdg + 3D)

Overload Protection: 0.2A/250V fuse (10A range unfused)

AC Current: Ranges 200 μ A, 2mA, 20mA, 200mA, 10A

Best Resolution: 10nA

Accuracy: \pm (0.75% Rdg + 10D)

Overload Protection: 0.2A/250V fuse (10A range unfused)

Continuity Test: Buzzer sounds at less than 200 Ω input resistance

Maximum Input Volts: 350V AC or DC Peak

Diode Test: Test Voltage: 2.8V

Test Current: 3mA

Maximum Input Volts: 250V DC or AC Peak

General Specifications

Operating Temperature: 0 to 40°C at a relative humidity of 0 to 80%

Power: 115V/230V, 50/60Hz

Size: 3.0" H x 8.0" W x 10.5" D

Weight : 5 lbs.

Supplied Accessories: Manual, Test leads

[B4100]**Display**

Slow: Counts: 200,000; Digits: 5 1/2

Medium: Counts: 20,000; Digits: 4 1/2

Fast: Counts: 2,000; Digits: 3 1/2

Specifications (at 25°C \pm 5°C)

DC Voltage: Ranges: 2V, 20V, 200V, 1000V

Best Resolutions: 10 μ V (Slow), 100 μ V (Med), 1mV (Fast)

Accuracy: \pm (0.05% + 3D), Input impedance: 10M Ω

Overload Protection: 1000V

AC Volts: Ranges: 2V, 20V, 200V, 1000V

Best Resolutions: 100 μ V (Slow and Med), 1mV (Fast)

Accuracy: \pm (0.5% + 5D) 45Hz to 450Hz

Overload Protection: 1000V, Crest Factor: 3:1

DC Current: Ranges: 200 μ A, 200mA, 10A

Best Resolutions: 200 μ A: 1nA (Slow), 10nA (Med), 100nA (Fast)

200mA: 1 μ A (Slow), 10 μ (Med), 100 μ A (Fast)

10A: 100 μ A (Slow), 1mA (Med), 10mA (Fast)

Accuracy: \pm (0.1% + 5D), Max burden: 200mV

Overload protection: 0.5A/250V and 10/250V fuse

AC Current: Best Resolution:

200 μ A: 10 nA (Slow and Med), 100nA (Fast)

200mA: 1 μ A (Slow), 10 μ A (Med), 100 μ A (Fast)

10A: 100 μ A (Slow), 1mA (Med), 10mA (Fast)

Accuracy: \pm (0.5% + 5D), Max burden: 200mV

Overload protection: 0.5A/250V and 10A/250V fuse

Resistance: Ranges: 200 Ω , 2K Ω , 20K Ω , 2M Ω , 10M Ω

Best Resolutions: 1m Ω (Slow), 10m Ω (Med), 100m Ω (Fast)

Accuracy: \pm (0.05% + 5D)

Overload Protection: 250V or AC RMS

Frequency: Ranges: 200Hz, 2KHz, 20KHz, 200KHz

Best Resolutions: 1mHz(Slow), 10mHz (Med), 100mHz (Fast)

Accuracy: \pm (0.05% + 2D)

Overload protection: 250V DC or AC RMS

Diode: Range: 2V

Test current: Approximately 1.0mA

Test Volts: Approximately 3 Volts

Continuity: Buzzer will sound at 100 Ω or less

Interface: RS-232:

Connector: 9 Pin din

Baud Rate: 1200, 2400, 4800 or 9600 bps

GPIB: optional

General Specifications

Display: 128 x 64 pixel super twisted LCD

Dimensions: 3.3" H x 12.0" W x 11.0" D

Operating Temperature: 0 to 50°C (32 to 120°F)

Power: 85V to 275V \pm 10%

Supplied Accessories: Manual, Power cord, BNC cable,

Software disk, RS-232 cable