Bench Top
Digital Multimeters

B4000 4-3/4 Digit DMM with RS232

- 50,000 count 4¾ digit Dual display LCD
- Auto calibration
- Measures Frequency, duty cycle and pulse width
- RS-232 interface with software
- AC and AC+DC true rms readings
- Conductance and Peak detect
- Tests Zener diodes to 25V
- Min/Max/Avg and Compare functions
- Stores and Recalls 10 measurements in memory
- Low voltage Ohms measurement
- 0.05% Basic accuracy
- Category II 600Voltt and CE approved

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

B4000

B4100

SPECIFICATIONS

[B4000]

mV DC: Ranges: 500 mV, 2500mV; Accuracy: ±0.05% + 5D
DC Volts: Ranges: 5.V, 50 V, 500V, 1000V; Accuracy: ±0.05%
AC and AC + DC mV: Ranges: 500mV; AC mV Accuracy: ±0.75% + 20d; AC+ DC mV accuracy: ±2.0% + 50d
AC and AC + DC Volts: Ranges: 5.V to 750V; AC Volts Accuracy: ±. 0.75% + 200d; AC + DC Volts accuracy: ±2.0% + 50d; Crest factor: Sine wave: 1. 414
DC Current: Ranges: 5000µA, 500mA, 10A; Accuracy: ±0.2% + 5d
AC and AC+DC True RMS Current:
Ranges: 5000µA, 500mA and 10A
AC Amp Accuracy: ±0.75%+ 20d 50Hz to 1KHz
AC + DC Amp Accuracy: 1.5% + 50D DC to 1kHz
Resistance: Ranges: 50Ω to 50MΩ; Accuracy: ±0.2%
Resistance: Lo Volt Ohms: Ranges: 5KΩ to 50MΩ; Open circuit Volts. 0.25V
Conductance: Range: 500nS; Accuracy: ±3% + 5d
Capacitance: Ranges: 5nF, to 5000µF; Accuracy: ±2% + 5d
Zener Diode Test: Range: 15.00V; Test Current: 1 mA; Test Voltage: 15 to 22V
Continuity Test: Ranges: 5KΩ to 5MΩ
Temperature: Ranges: -20°C to 1200°C, -4°F to 2100°F, -253°K to 1473°K
Thermocouple: K type: Display: °F, °C, and °K; Accuracy: ±2° C +10D
Frequency: Ranges: 50Hz to 5MHz; Accuracy: ±0.01%
Pulse Width: Range: 200mS; Accuracy: 0.1% + 5d
Duty Cycle: Range: 0 to 100%; Accuracy: 0.1% + 5d
Peak Hold: Ranges: DC ma, DCV, DC µA, DC mA, and DCA; Accuracy: < 10 % of peak with > 5ms pulse width and > than 10% of full scale

General Specifications

Update Rate: 2/Sec
Operating Temperature:
0° to 40° C at a relative Humidity of < 80%
Power: 120/220V, 50/60Hz
Size: TBD
Weight : 5 lbs
Supplied Accessories: Carrying case, protective holster, User manual, Safety probes with alligator tips,R-232 Cable and software CD ROM, Temperature adapter and K type temperature probe and carrying case and Line cord

[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: 10 µV (Slow), 100 µV (Med), 1mV (Fast)
Accuracy: ± (0.05% + 3D), Input impedance: 10MΩ
Overload protection: 1000V
AC Volts: Ranges: 2V, 20V, 200V, 1000V
Best Resolutions: 100 µV (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 Resolution:
200 µA: 10 nA (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 and10A/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 3 Volts
Continuity: Buzzer will sound at 100Ω 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
Size: 3.3″ H x 12.0″ W x 11.0″ D
Weight: TBD
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