



6500

- 50,000 count and 50 segment bar graph backlit display
- Basic DC accuracy is $\pm 0.03\%$
- RS232 interface with software and cable
- dBm measurement with 4Ω to 1200Ω reference resistances
- AC and (AC+DC) TRUE RMS measurement
- Measures frequency, Duty cycle and Capacitance
- Cat III 1000V
- Max/Min and Relative measurements
- Auto power off and backlit display

SPECIFICATIONS

DC mV

Ranges: 50mV, 500mV; Best Resolution: $1\mu\text{V}$
Accuracy: $\pm(0.03\% + 6\text{d})$; Input Impedance: $1\text{G}\Omega$

DC Volts

Ranges: 5V, 50V, 500V, 1000V; Best Resolution: $100\mu\text{V}$
Accuracy: $\pm(0.03\% + 6\text{d})$; Max. Input Voltage: 1000V DC
Input Impedance: $10\text{M}\Omega$

AC mV

Ranges: 50mV, 500mV; Best Resolution: $1\mu\text{V}$
AC mV Accuracy:
40Hz to 1KHz: $\pm(0.5\% + 4\text{d})$, 1KHz to 10KHz: $\pm(1.0\% + 4\text{d})$,
10KHz to 20KHz: $\pm(2.5\% + 4\text{d})$
Input Impedance: $1\text{G}\Omega$

AC Volts

Ranges: 5V, 50V, 500V, 1000V; Best Resolution: $100\mu\text{V}$
AC Volts Accuracy (5V to 500V ranges):
40Hz to 1KHz: $\pm(0.5\% + 4\text{d})$, 1KHz to 10KHz: $\pm(1.0\% + 4\text{d})$,
10KHz to 20KHz: $\pm(2.5\% + 4\text{d})$
Max. Input Voltage: 1000V DC or AC peak
Input Impedance: $10\text{M}\Omega$

DC μA :

Ranges: 500 μA , 5000 μA ; Best Resolution: 10.0nA
Accuracy: $\pm(0.15\% + 1\text{d})$
Overload Protection: 0.5A/250V fuse

DC mA

Ranges: 50mA, 500mA; Best Resolution: $1.0\mu\text{A}$
Accuracy: $\pm(0.15\% + 1\text{d})$
Overload Protection: 0.5A/250V fuse

DC A

Ranges: 5A, 10A; Best Resolution: $100\mu\text{A}$
Accuracy: $\pm(0.5\% + 10\text{d})$
Overload Protection: 10A/250V fuse

AC μA

Ranges: 500 μA , 5000 μA ; Best Resolution: 10.0nA
Accuracy: $\pm(0.75\% + 10\text{d})$ 40Hz to 1KHz
Overload Protection: 0.5A/250V fuse

AC mA

Ranges: 50mA, 500mA; Best Resolution: $1.0\mu\text{A}$
Accuracy: $\pm(0.75\% + 20\text{d})$ 40Hz to 1KHz
Overload Protection: 0.5A/250V fuse

AC A

Ranges: 5A, 10A; Best Resolution: $100\mu\text{A}$
Accuracy:
40Hz to 1KHz 5A: $\pm(0.75\% + 20\text{d})$
40Hz to 1KHz 10A: $\pm(0.75\% + 20\text{d})$
Overload Protection: 10A/250V fuse

Resistance

Ranges: 500Ω , $5\text{K}\Omega$, $50\text{K}\Omega$, $500\text{K}\Omega$, $5\text{M}\Omega$, $50\text{M}\Omega$
Best Resolution: $10.0\text{m}\Omega$; Accuracy: $\pm(0.1\% + 5\text{d})$
Max. Input Voltage: 250V

Continuity Buzzer

Buzzer Will Sound: $< 60\Omega$ resistance

Capacitance

Ranges: 50nF, 500nF, $5\mu\text{F}$, $50\mu\text{F}$, $500\mu\text{F}$, $5000\mu\text{F}$
Best Resolution: 10pF ; Accuracy: $\pm(1.0\% + 5\text{d})$
Maximum Input Volts: 250V

Diode Test

Range: 2.5V; Resolution: 0.1mV
Accuracy: $\pm(1.0\% + 5\text{d})$; Test Current: Approx. 0.7mA

Logic Frequency

Sensitivity: +2V to +5V Square wave
Accuracy: $\pm(0.006\% + 4\text{d})$
Frequency Range: 5Hz to 2MHz

Frequency

Ranges: 5Hz to 200KHz; Best Resolution: 0.001Hz
Accuracy: $\pm(0.006\% + 4\text{d})$
Input Sensitivities (Range/Sensitivity):
(500mV / 0.1V), (5V / 0.5V), (50V / 4V), (500V / 40V),
(1000V / 400V), (5000 μA / 1000 μA), (500mA / 100mA)

Duty Cycle

Range: 0 to 90%; Resolution: 0.01%
Accuracy: $\pm 10\%$

General Specifications

Operating Temperature:
0 to 30°C (32 to 86°F) @ 80% Relative Humidity
31 to 51°C (87 to 124°F) @ 50% Relative Humidity
Power: (6) AAA Batteries
Size: 7.9" (H) x 3.94" (W) x 1.57" (D)
Weight: 1.23 lbs
Accessories: Manual, test leads, RS232 cable and software CD

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