

- 80,000 count Dual Display
- Basic DC accuracy is 0.05%
- Pulse output with frequency selection from 0.5Hz to 5KHz with duty cycles from 1% to 99%
- Measures frequency, ms Pulse width and duty cycle
- AC and AC+DC TRUE RMS measurements.
- Hi and Lo limit testing
- dBm measurement using 20 reference Impedances
- Min/Max/AVG
- Peak hold and Relative mode
- RS232 port
- CE and Category II 1000V and Cat III 600V safety standards
- Built in 10 hour timer



6800

SPECIFICATIONS

mV DC

Ranges: 80 mV, 800 mV; Best Resolution: 1 μ V
Accuracy: $\pm 0.05\% + 10d$; Input Impedance: 1G Ω

DC Volts

Ranges: 8V, 80 V, 800V, 1000V; Best Resolution: 100 μ V
Accuracy: $\pm(0.05\% + 10d)$; Max. Input Voltage: 1000V DC
Input Impedance: 10M Ω

AC mV/Volts TRUE RMS

Ranges: 80mV, 800mV, 8V, 80V, 750V
Best Resolution: 1 μ V

AC Volts Accuracy (80mV, 800mV, 8V ranges):

50/60Hz: $\pm(0.5\% + 10d)$
50Hz ~ 1KHz: $\pm(1.0\% + 10d)$
1KHz ~ 10KHz: $\pm(3.0\% + 10d)$
10KHz ~ 20KHz: $\pm(5.0\% + 10d)$

AC Volts Accuracy (80V and 750V Range):

1% from 50Hz to 400Hz
AC + DC V Accuracy: $\pm(1.0\% + 10d)$ 50Hz to 200Hz
Max. Input Voltage: 1000 V DC or AC peak
Input Impedance: 10M Ω (1G Ω 80mV and 800mV)

DC Current

Ranges: 80mA, 800mA, 8A, 10A; Best Resolution: 1.0 μ A
Accuracy: $\pm(0.5\% + 10d)$
Overload Protection: 0.8A/250V fuse and 10A/250V fuse

AC True RMS Current

Ranges: 80mA, 400mA, 8A, 10A; Best Resolution: 1.0 μ A
Accuracy: $\pm(0.5\% + 10d)$ 50Hz to 1KHz
Accuracy AC+DC Amps: $\pm(1.0\% + 10d)$ 50Hz to 200Hz
Overload Protection: 800mA/250 fuse and 10A/250V fuse

DBM

Range: -80dBm to +80dBm; Best Resolution: -0.01dBm
Accuracy: $\pm(1.0\%$ or reading)
Default Ref impedance is 600 Ω , Ref. Impedances from 4 Ω to 1200 Ω maybe selected

Resistance

Ranges: 800 Ω , 8K Ω , 80K Ω , 800K Ω , 8M Ω , 80M Ω
Best Resolution: 10.0m Ω ; Accuracy: $\pm(0.3\% + 10d)$
Max. Input Voltage: 250V

Diode and Continuity Test

Range: 8.00V; Accuracy: $\pm(3\% + 10d)$
The Buzzer sounds when the measured resistance is <50 Ω

Frequency

Ranges: 1KHz, 10KHz, 100KHz, 1000KHz, 8MHz
Best Resolution: 0.01Hz; Input sensitivity: 0.7V AC rms
Accuracy: $\pm(0.05\% + 5d)$; Max. Input Voltage: 250V
Frequencies to 1Ghz can be read with optional adapter
Secondary display reads: Duty cycle and mS pulse width

RPM

Range: 0 to 99,999; Resolution: 1RPM
Accuracy: $\pm(0.1\% + 5d)$

Note: The RPM function is the secondary display of the frequency measurement and requires the RPM adapter

Capacitance

Ranges: 1nF, 10nF, 100nF, 1 μ F, 10 μ F, 100 μ F.
Best Resolution: 1pF
Accuracy: $\pm(2.5\% + 10d)$, ($\pm 5\% + 10d$), 1nF range
Maximum Input Volts: 250V

Temperature

Ranges: -50 to 1372 $^{\circ}$ C (-58 to 2502 $^{\circ}$ F)
Thermocouple: K type
Display: $^{\circ}$ C primary display $^{\circ}$ F secondary display
Resolution: 0.1 $^{\circ}$
Accuracy: $\pm(2.5\% + 8d)$

Square wave Generator

Amplitude: Approx 3V
Frequencies from 0.500Hz to 5.000KHz may be selected in 15 Steps
Duty Cycle: Variable from 1% to 99%

General Specifications

Operating Temperature: 0 to 50 $^{\circ}$ C (32 to 122 $^{\circ}$ F)
Power: 9Volt battery @ 36 Hours of operation
Size: 7.5" (H) x 3.54" (W) x 1.45" (D)
Weight: 1.43 lbs
Auto Power-Off: 30 minutes or the timer value.
Accessories: Instruction manual, Test leads, Holster, Temperature probe, 9V battery, RS-232 software and cable