

Model 6300- Multifunction (Five in one) DMM



3 ¾ Auto ranging DMM with Sound Level, Relative Humidity, Luminance, and Temperature measurements .The DMM that senses its environment.

Features

- Five meters in one. Humidity, Light, Sound, Temperature plus DMM.
- Display reads Humidity and Ambient temperature along with measurement Value.
- Resettable current overload fuses, no need to open the meter to replace a blown fuse.
- Temperature measurement In Fahrenheit or Celsius
- Measures Duty cycle, Frequency and Capacitance
- 3 ¾ digit and 4000 count
- Relative mode and Data hold
- Auto and Manual Ranging
- Auto power-off (Sleep mode)
- Buzzer and flashing light warning when leads are connected to wrong input or overload condition
- Back lit display

Specifications

DC Volts:

Ranges: 400mV, 4V, 40V, 400V, 1000V
Best Resolution: 100µV
Accuracy: $\pm (0.7\% + 2d)$
Input Impedance: 10MΩ
Maximum Input volts: 250V 400mV range
1000V DC all other ranges

AC Volts:

Ranges: 400mV, 4V, 40V, 400V, 1000V
Best Resolution: 100µV
Accuracy: $\pm (0.8\% + 3d)$
 $\pm (3.0\% + 3d)$ 400mv range
 $\pm (1.0\% + 3d)$ 1000V Range
Input Impedance: 10MΩ
Maximum Input volts: 250V 400mV range
1000V DC all other ranges

DC Current:

Ranges: 400µA, 4000µA, 40mA, 400ma, 10A
Best Resolution: 100pA
Accuracy: $\pm (1.2\% + 3d)$
 $\pm (2.0\% + 3d)$ 4A and 10A ranges
Overload Protection: 500mA /250V resettable fuse and 10A/ 250V fuse

AC Current:

Ranges: 400µA, 4000µA, 40mA, 400ma, 10A
Best Resolution: 100pA
Accuracy: $\pm (1.5\% + 5d)$
 $\pm (3.0\% + 7d)$ 4A and 10A ranges
Overload Protection: 500mA /250V resettable fuse and 10A/ 250V fuse

Resistance:

Ranges: 400.0Ω, 4.000KΩ, 40.00KΩ, 400.0KΩ, 4.000MΩ, 40.00MΩ
Best resolution: 0.1Ω
Accuracy: $\pm (1.2\% + 2d)$
 $\pm (2.0\% + 5d)$ 40MΩ range

Open circuit voltage: approx. 250mV
Overload Protection: 250VDC or RMS

Capacitance:

Ranges: 4nF, 40nF, 400nF, 4µF, 40µF, 200µF
Best Resolution: 1pF
Accuracy: $\pm (3.0\% + 3d)$
Overload protection: 250V DC or RMS

Frequency:

Ranges: 9.999Hz, 99.99Hz, 999.99Hz, 9.999KHz, 99.99KHz, 199.9KHz.
Best Resolution: 0.001Hz.
Accuracy: $\pm (1.5\% + 5d)$ ranges
 $\pm (2.0\% + 5d)$ 10Hz and 200 KHz
Unspecified > 200 KHz
Overload Protection: 250V DC or RMS
Sensitivity: 0.6V to 3V RMS

Duty Cycle:

Range: 0.1% to 99.9%
Resolution: 0.1%
Accuracy: $\pm 3.0\%$

Temperature: (Main display)

Range: 0°C to 40°C (32°F to 104°F)
Resolution: 0.1°C or F
Accuracy: $\pm 2^\circ\text{C}$ and $\pm 4^\circ\text{F}$

Temperature: (with Thermocouple)

Ranges: -20°C to 1000°C
Resolution: 1°C or F
Accuracy:
 $\pm 5.0\%$ or $\pm 3^\circ\text{C}$ -20°C to 0°C
 $\pm 1.0\%$ or $\pm 2^\circ\text{C}$ 0°C to 400°C
 $\pm 2.0\%$ 400°C to 1000°C
 $\pm 5.0\%$ or $\pm 6^\circ\text{F}$ -4°F to 32°F
 $\pm 1.0\%$ or $\pm 4^\circ\text{F}$ 32°F to 752°F
 $\pm 2.0\%$ 752°F to 1832°F

Continuity Buzzer:

Open circuit V: 0.5V
Buzzer will sound at < 40Ω resistance

Diode:

Open Circuit Voltage: 1.5V DC
Test Current: 1mA
Overload Protection: 250V DC or RMS

Sound level:

Range: 40dB to 100dB
Resolution: 0.1dB
Accuracy: $\pm 3.5\%$ at 94dB and a 1KHz sine wave
Frequency range: 100Hz to 8 KHz

Luminance:

Ranges: 0 to 4000 lux and 0 to 40,000 (x10 lux)
Resolution: 1 lux (x1 lux) and 10 lux (x10 lux)
Accuracy: $\pm (5\% + 10d)$ at a color temperature of 2856K calibrated to a standard Incandescent lamp

General Specifications:

Relative Humidity:
Range: 20~95% Accuracy: $\pm 5\%$
Operating Temperature:
0 to 40°C (32°F to 122°F) with < 70% humidity
Dimensions: 7.7" (H) x 3.6" (W) x 2.2" (D)
195 x 92 x 55 mm
Weight: 14.3 oz
Power: 3x 1.5V AAA Batteries
Accessories: Test Leads, Operator's manual and batteries

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