

Model 6100 - 3 ¾ Auto ranging , Economy priced, DMM



With Diode, Capacitance, Duty Cycle, Continuity and Frequency functions.

Features

- 3 ¾ digit and 4000 count
- Back lit display
- Appropriate Input jacks light up when measurement function is selected
- CATII 1000V and CAT III 600V input and test leads
- Measures Capacitance, Frequency and duty cycle
- Buzzer and flashing light warning when leads are connected to wrong input or overload
- Relative measurement and data hold
- Resettable current overload fuses, no need to open the meter to replace the blown fuse
- Auto and manual Ranging

Specifications

DC Volts:

Ranges: 400mV, 4V, 40V, 400V, 1000V
Best Resolution: 100µV
Accuracy: $\pm (0.7\% + 2d)$;
 $\pm (0.8\% + 2d)$ 1000V range

Input Impedance: 10MΩ
Maximum Input volts: 1000V DC

AC Volts:

Ranges: 400mV, 4V, 40V, 400V, 1000V
Best Resolution: 100µV
Accuracy: $\pm (0.8\% + 3d)$; all other range
 $\pm (3.0\% + 3d)$ 400mv range
 $\pm (1.0\% + 3d)$ 1000V range
Input Impedance: 10MΩ
Maximum Input volts: 750V AC

DC Current:

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

AC Current:

Ranges: 400µA, 4000µA, 40mA, 400ma, 10A
Best Resolution: 100pA
Accuracy: $\pm (1.5\% + 5d)$
 $\pm (3.0\% + 7d)$ 10A range
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: $\pm (3.0\% + 5d)$
 $\pm (5.0\% + 5d)$ 4nF range
Overload protection: 400mA/250V resettable fuse

Frequency:

Ranges: 9.999Hz, 99.99Hz, 999.9Hz, 9.999KHz,
99.99KHz, 999.9KHz
Best Resolution: 0.001Hz.
Accuracy: $\pm (3.0\% + 5d)$
Unspecified greater than 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: $\pm 3.0\%$

Continuity Buzzer

Open circuit V: 0.5V
Buzzer will sound at $< 50\Omega$ resistance

Diode:

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

Transistor test:

HFE range: 0 to 1000
Base Current: 10µA
Open circuit Vce: 2.8V

General Specifications:

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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