



An ISO 9001:2000 Certified company

AUTO RANGING

DIGITAL MULTIMETER MODEL-6040



Model 6040

FEATURES

- Max. Voltage Between Terminal
- And Earth Ground : 100 V DC or 750 rms AC (sine)
- Fuse protection : μ A, mA; F 400 mA/250V
- Power supply : 9 V battery, NEDA 1604 or 6F22
- Display : LCD, 3999 counts max., Updates 2-3/Sec
- Measurement Method : Dual slope integration A/D converter
- Ranging Method : Auto/Manual
- Overrange Indication : "OL" displayed
- Polarity indication : "-" displayed automatically
- Low Battery Indication: "BAT" displayed
- Operating Temperature: 0°C to 40°C(32°F to 104°F)
- Storage Temperature :-10°C to 50°C (10°F to 122°F)
- Dimension : 88 x 192 x 42 mm
- Weight : about 400g (including battery and holster)

ELECTRICAL SPECIFICATIONS

DC VOLTAGE

Range	Resolution	Accuracy
400 mV	0.1 mV	$\pm(0.5\% \text{ rdg} + 2\text{dgts})$
4 V	1 mV	$\pm(0.5\% \text{ rdg} + 5\text{dgts})$
40 V	10 mV	$\pm(0.5\% \text{ rdg} + 5\text{dgts})$
400 V	0.1 V	$\pm(0.5\% \text{ rdg} + 5\text{dgts})$
1000 V	1 V	$\pm(0.5\% \text{ rdg} + 5\text{dgts})$

AC CURRENT

Range	Resolution	Accuracy
400 μ A	0.1 μ A	$\pm(1.5\% \text{ rdg} + 5\text{dgts})$
4000 μ A	1 μ A	$\pm(1.5\% \text{ rdg} + 5\text{dgts})$
40 mA	10 μ A	$\pm(1.5\% \text{ rdg} + 5\text{dgts})$
400 mA	0.1 mA	$\pm(1.5\% \text{ rdg} + 5\text{dgts})$
20 A	10 mA	$\pm(3.0\% \text{ rdg} + 7\text{dgts})$

Overload Protection: 400 mA fuse for μ A and mA ranges, 20A range
Test time < 15 seconds

Frequency Range : 40 to 400Hz.
Response : Average Calibrated in rms of sine wave.

AC VOLTAGE

Range	Resolution	Accuracy
4 V	1 mV	$\pm(0.8\% \text{ rdg} + 3\text{dgts})$
40 V	10 mV	$\pm(0.8\% \text{ rdg} + 3\text{dgts})$
400 V	0.1 mV	$\pm(0.8\% \text{ rdg} + 3\text{dgts})$
750 V	1 V	$\pm(0.8\% \text{ rdg} + 3\text{dgts})$

Input Impedance : 10M Ω

Frequency range : 40 to 400 Hz

Response : Average, calibrated in rms of sine wave

RESISTANCE

Range	Resolution	Accuracy
400 Ω	0.1 Ω	$\pm(0.8\% \text{ rdg} + 3 \text{ dgts})$
4 K Ω	1 Ω	$\pm(0.8\% \text{ rdg} + 1 \text{ dgts})$
40 K Ω	10 Ω	$\pm(0.8\% \text{ rdg} + 1 \text{ dgts})$
400 K Ω	100 Ω	$\pm(0.8\% \text{ rdg} + 1 \text{ dgts})$
4 M Ω	1 K Ω	$\pm(0.8\% \text{ rdg} + 1 \text{ dgts})$
40 M Ω	10 K Ω	$\pm(1.2\% \text{ rdg} + 2 \text{ dgts})$

Maximum Open Circuit Voltage : about 1.3V

CAPACITANCE

Range	Resolution	Accuracy
400 nF	0.1 nF	$\pm(4.0\% \text{ rdg} + 5 \text{ dgts})$
40 μ F	10 nF	$\pm(4.0\% \text{ rdg} + 5 \text{ dgts})$

Maximum open circuit Voltage: about 3Vp-p

FREQUENCY

Range	Resolution	Accuracy
40 KHz	10 Hz	$\pm(1.2\% \text{ rdg} + 3\text{dgts})$
150 KHz	100 Hz	$\pm(2.5\% \text{ rdg} + 3\text{dgts})$

Sensitivity : 500 mV rms up to 40.0 Hz,
1V rms for 150kHz.

TEMPERATURE

Range	Resolution	Accuracy
-40°C~400°C	1°C	$\pm(1.0\% \text{ rdg} + 3\text{dgts})$
400°C~1000°C		$\pm(1.5\% \text{ rdg} + 3\text{dgts})$

TRANSISTOR hFE MEASUREMENT

Range	Description	
hFE	It can measure NPN or PNP type of transistor triode hFE parameter. Indication range : 0~1000	1b approx. 10 μ A, Vec approx. 2.8 V

DIODE AND CONTINUITY MEASUREMENT

Description	
Indicate approx forward-way voltage drop of diode	Forward-way current is approx. 1mA conray-way voltage is approx. 2.8 V. Open circuit voltage is approx. 2.8V.
The buzzer inside sounds when continuity resistance is about <50 Ω	

Overload Protection : 250 V AC or DC peak value.

Note: All Specification are Subject to change.

Industrial Supply Syndicate

Office : 54. Ezra Street, Kolkata - 700 001, India.

Tel. : (033) 3291 6080, 22356676 Fax : (033) 3022 2923

E-mail : info@industrialindia.com, Website : www.industrialindia.com



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