

Digital Multimeter

DM-850

• Low Cost / General Purpose

- 600V AC/DC
- DC Current: 10A
- 6 Function, 16 Range
- Perfect for Workshop and School
- Data Hold / Backlight
- Diode and Continuity Test
- Transistor hFE test
- 3 1/2 Digit LCD Display
- Low Battery Indicator
- Tilt Stand
- 1-Year Limited Warranty
- 0.8% Basic DC Accuracy

Battery, Test Leads, and Operating Instructions Manual Included

SPECIFICATIONS:

Accuracy is specified for a period of one year after calibration and at 18 to 28°C (64 to 82°F) with relative humidity to 80%.



General

Maximum Voltage Between: CAT II 600V terminals and earth ground

Power: 9v battery NEDA 1604 or 6F22

Display: LCD, 1999 counts, updates 2-3/sec

Measuring Method: Dual-slope integration A/D converter

Overage Indication: Only figure "1" on the display

Polarity Indication: "-" displayed for negative polarity

Operating Environment: 0 to 40 °C

Storage Temperature: -10°C to 50°C

Low Battery Indication: "batt" appears on the display

Size: 138mm * 69mm * 31mm

Weight: Approx. 170g

DC Voltage

Range	Resolution	Accuracy
200mV	100 μ V	$\pm 0.5\%$ of rdg ± 2 digits
2V	1mV	$\pm 0.5\%$ of rdg ± 2 digits
20V	10mV	$\pm 0.5\%$ of rdg ± 2 digits
200V	100mV	$\pm 0.5\%$ of rdg ± 2 digits
600V	1V	$\pm 0.5\%$ of rdg ± 2 digits

Overload Protection: 250V rms, For 200mV range and 600V dc or rms, ac for other ranges

DC Current

Range	Resolution	Accuracy
22mA	1 μ A	$\pm 1\%$ of rdg ± 2 digits
20mA	10 μ A	$\pm 1\%$ of rdg ± 2 digits
200mA	100 μ A	$\pm 1.5\%$ of rdg ± 2 digits
10A	10mA	$\pm 3\%$ of rdg ± 2 digits

Overload Protection: (10A range unfused)

AC Voltage

Range	Resolution	Accuracy
200V	100mV	$\pm 1.2\%$ of rdg ± 10 digits
600V	1V	$\pm 1.2\%$ of rdg ± 10 digits

Overload Protection: 600V DC or RMS, AC for all ranges

Frequency range: 40Hz to 400Hz
Response: Average responding, calibrated in rms. of a sine wave

Diode & Continuity

Range	Description
•	If continuity exists (about less than 1.5k Ω) built-in buzzer will sound
*	Show the approx. forward voltage drop of the diode

Resistance

Scale	Resolution	Accuracy
200 Ω	0.1 Ω	$\pm 0.8\%$ of rdg ± 3 digits
2k Ω	1 Ω	$\pm 0.8\%$ of rdg ± 2 digits
20k Ω	10 Ω	$\pm 0.8\%$ of rdg ± 2 digits
200k Ω	100 Ω	$\pm 0.8\%$ of rdg ± 2 digits
2M Ω	1k Ω	$\pm 1.0\%$ of rdg ± 2 digits

Maximum Open Circuit Voltage: 3.2V

Overload protection: 250V dc rms ac for all

Transistor hFE Test (0-1000)

Range	Test Range	Test Current	Test Voltage
NPN&PNP	0-1000	I _b =10 μ A	V _{ce} =3V ranges