

# 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
- 90-Day 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:** "⚡" appears on the display

**Size:** 138mm \* 69mm \* 31mm

**Weight:** Approx.170g

#### DC Voltage

Range	Resolution	Accuracy
200mV	100 μV	± 0.5% of rdg ± 2 digits
2V	1mV	± 0.5% of rdg ± 2 digits
20V	10mV	± 0.5% of rdg ± 2 digits
200V	100mV	± 0.5% of rdg ± 2 digits
600V	1V	± 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	1μA	± 1% of rdg ± 2 digits
20mA	10 μA	± 1% of rdg ± 2 digits
200mA	100 μA	± 1.5% of rdg ± 2 digits
10A	10mA	± 3% of rdg ± 2 digits

Overload Protection: (10A range unfused)

#### AC Voltage

Range	Resolution	Accuracy
200V	100mV	±1.2% of rdg ±10 digits
600V	1V	±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 1.5kΩ ) built-in buzzer will sound
*	Show the approx. forward voltage drop of the diode

#### Resistance

Scale	Resolution	Accuracy
200Ω	0.1Ω	± 0.8% of rdg ± 3 digits
2kΩ	1Ω	± 0.8% of rdg ± 2 digits
20kΩ	10Ω	± 0.8% of rdg ± 2 digits
200kΩ	100Ω	± 0.8% of rdg ± 2 digits
2MΩ	1kΩ	± 1.0% of rdg ± 2digits

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	Ib=10μA	Vce=3Vranges