

Digital Multimeter

DM-817

• Auto Range

- 9 Function
- 1000VDC / 750VAC
- AC/DC Current: 10A
- Data Hold / Backlight
- Auto Power Off
- Includes: Capacitance/Temperature/Frequency
- 6000 Count
- Carrying Case

Battery, Test Leads (standard and temperature) and Operating Instructions 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

Display: (LCD)

Maximum Display: 5999 (5 5/6) bits
Automatic polarity display

Measurement: double integral A/D conversion

Sampling Rate: about 3 times per second

Overrange Display: the most significant bit was "OL"

Low Voltage Display: "L" symbol appears

Working Environment: (0-40) °C, relative humidity < 80%

Power Supply: 9V (NEDA1604 / 6F22) / 1.5V*2 AAA battery

Size: 184 * 90 * 46 mm (LWH)

DC Voltage

| Range/Accuracy | 6000counts | Resolution |
|----------------|------------|------------|
| 600mV | (0.5%+3) | 0.1mV |
| 6V | (0.5%+3) | 0.001V |
| 60V | (0.5%+3) | 0.01V |
| 600V | (0.5%+3) | 0.1V |
| 1000V | (0.8%+10) | 1V |

Input impedance: 10MΩ
Overload protection: 200mV range is 550V DC or AC peak; the rest is 1000V DC or 750V AC peak.

DC Current

| Range/Accuracy | 6000counts | Resolution |
|----------------|------------|------------|
| 600uA | (0.8%+10) | 0.1uA |
| 6000uA | (0.8%+10) | 0.001mA |
| 60mA | (0.8%+10) | 0.01A |
| 600mA | (0.8%+10) | 0.1A |
| 10A | (2.0%+30) | 1A |

The maximum measured pressure drop: 600mv
Overload protection: 600MA
600MA/250V speed Glass Fuse: 10A: 10A/250V ceramic speed fuse.

AC Voltage

| Range/Accuracy | 6000counts | Resolution |
|----------------|------------|------------|
| 600mV | (0.8%+5) | 0.1mV |
| 6V | (0.8%+5) | 1mV |
| 60V | (0.8%+5) | 10mV |
| 600V | (0.8%+5) | 100mV |
| 750V | (1.2%+10) | 1V |

Input impedance: 10MΩ
Standard sine wave and triangular wave frequency response: 40 Hz-1kHz; other waveform frequency response: 40Hz-200Hz

AC Current

| Range/Accuracy | 6000counts | Resolution |
|----------------|------------|------------|
| 600uA | (0.8%+10) | 0.1uA |
| 6000uA | (0.8%+10) | 0.001mA |
| 60mA | (0.8%+10) | 0.01A |
| 600mA | (0.8%+10) | 0.1A |
| 10A | (2.0%+30) | 1A |

The maximum measured pressure drop: 600mv
Overload protection: 600MA
600MA/250V speed Glass Fuse: 10A: 10A/250V ceramic speed fuse.
Frequency response: Sine wave and triangular wave is 40Hz-1Kz; other waveform is 40Hz-200Hz;
Display: True RMS;

Resistance

| Range/Accuracy | 6000counts | Resolution |
|----------------|------------|------------|
| 600Ω | (0.8%+5) | 0.1Ω |
| 6KΩ | (0.8%+3) | 1Ω |
| 60KΩ | (0.8%+3) | 10Ω |
| 600KΩ/6MΩ | (0.8%+3) | 100Ω/1KΩ |
| 60MΩ | (2.0%+25) | 10KΩ |

Open circuit voltage: less than 3V; overload protection: 550V DC or AC peak;
A: In the use of 600Ω range, you should first short-circuit test leads, measured lead resistance, and then subtracted from the real measurement;
B: when measures larger than 1MΩ resistance, the slow reading is a normal phenomenon, please read the value after show stability.

Capacitance

| Range/Accuracy | 6000counts | Resolution |
|----------------|------------|------------|
| 60nF | (3.5%+20) | 10pF |
| 600nF | (3.5%+20) | 100pF |
| 6uF | (3.5%+20) | 1nF |
| 60uF | (3.5%+20) | 10nF |
| 600uF/6mF | (5.0%+10) | 100nF/1uF |

SPECIFICATIONS: (continued)

Frequency


| Range/Accuracy | 6000counts | Resolution |
|----------------|------------|------------|
| 10Hz | (0.1%+3) | 0.01 Hz |
| 100Hz | (0.1%+3) | 0.1 Hz |
| 1kHz | (0.1%+3) | 1 Hz |
| 10kHz | (0.1%+3) | 10 Hz |
| 100kHz | (0.1%+3) | 100 Hz |
| 1MHz | (0.1%+3) | 1 kHz |
| 20MHz | (0.1%+3) | 10 kHz |

Input sensitivity: 1V RMS; overload protection;
550V DC or AC peak (not more than 10 seconds)

Temperature

| Range/Accuracy | 6000counts | Resolution |
|----------------|-------------------|------------|
| (-20-1000) °C | (1.0%+5)<400°C | 1°C |
| | (1.5%+1.5)>=400°C | |
| (0-1832) F | (0.75%+5)<750F | 1F |
| | (1.5%+1.5)>=750F | |

Diodes Power-on Test

| Range | Display Value | Test Conditions |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|  | Diode forward voltage drop | Forward DC current about 1mA Open circuit voltage about 3V |
| | The buzzer makes long sounds to test the resistance of two points less than (50 20) Ω | Open circuit voltage about 3V |

Overload protection: 550V DC or AC peak

Warning: for safety within this range, it is prohibited to input the voltage value.