**Digital Multimeter**

**DM-59**

- **Perfect For Workshop and School**
- **10 Functions, 30 Ranges**

  - Frequency Counter
  - hFE
  - Capacitance
  - Diode Test
  - 20MΩ FS
  - 10A AC/DC
  - 0.5% Basic DC Accuracy
  - 3 1/2 Digit LCD, 0.55” H
  - Audible Continuity Test
  - 10MΩ Input Z
  - Overload Protection
  - RF Shielded
  - Tilt Stand
  - 1-Year Limited Warranty

Battery, Test Leads (ML-375), Spare Fuse and Operating Instructions Included

**SPECIFICATIONS:**

**General**
- **Display:** 3 1/2 Digit LCD, 0.55” high, with polarity
- **Overrange Indication:** “OL” is displayed
- **Measurement Rate:** 2.5 times per second
- **Operating Environment:** 0°C to 50°C, <70% relative humidity
- **Storage Environment:** -20°C to 60°C, <80% relative humidity with battery removed

**Power:** 9V carbon zinc battery (NEDA 1604)
- **Battery Life:** 150 hours typical with carbon zinc cells
- **Low Battery Indicator:** Symbol is displayed
- **Dimensions, Weight:** 2.8” wide x 6” long x 1.5” thick (70mm x 151mm x 38mm)
  - net weight 7oz. (200g)

**DC Voltage**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>200mV</td>
<td>100µV</td>
<td>±0.5% of rdg ±1D</td>
</tr>
<tr>
<td>2V</td>
<td>1mV</td>
<td>±0.5% of rdg ±1D</td>
</tr>
<tr>
<td>20V</td>
<td>10mV</td>
<td>±0.5% of rdg ±1D</td>
</tr>
<tr>
<td>200V</td>
<td>100mV</td>
<td>±0.5% of rdg ±1D</td>
</tr>
<tr>
<td>600V</td>
<td>1V</td>
<td>±0.3% of rdg ±1D</td>
</tr>
</tbody>
</table>

Input Impedance: 10MΩ on all ranges
- Maximum Input: 600V DC or AC rms

**AC Current**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2mA</td>
<td>1µA</td>
<td>±1.0% of rdg ±1D</td>
</tr>
<tr>
<td>20mA</td>
<td>10µA</td>
<td>±1.0% of rdg ±1D</td>
</tr>
<tr>
<td>200mA</td>
<td>100mA</td>
<td>±1.0% of rdg ±1D</td>
</tr>
<tr>
<td>10A</td>
<td>10mA</td>
<td>±3.0% of rdg ±1D</td>
</tr>
</tbody>
</table>

Overload Protection: mA input, 0.5A/250V fuse; 10A input 10A/250V fuse

**Resistance**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>200Ω</td>
<td>0.1Ω</td>
<td>±0.8% of rdg ±30</td>
</tr>
<tr>
<td>2KΩ</td>
<td>1Ω</td>
<td>±0.8% of rdg ±10</td>
</tr>
<tr>
<td>20KΩ</td>
<td>10Ω</td>
<td>±0.8% of rdg ±10</td>
</tr>
<tr>
<td>200KΩ</td>
<td>100Ω</td>
<td>±0.8% of rdg ±10</td>
</tr>
<tr>
<td>2000KΩ</td>
<td>1KΩ</td>
<td>±0.8% of rdg ±10</td>
</tr>
<tr>
<td>10MΩ</td>
<td>10KΩ</td>
<td>±3% of rdg ±30</td>
</tr>
</tbody>
</table>

Overload Protection: 500V DC or AC rms

**AC Voltage**

<table>
<thead>
<tr>
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<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>200mV</td>
<td>100µV</td>
<td>±1.0% of rdg ±40</td>
</tr>
<tr>
<td>2V</td>
<td>1mV</td>
<td>±1.0% of rdg ±40</td>
</tr>
<tr>
<td>20V</td>
<td>10mV</td>
<td>±1.0% of rdg ±40</td>
</tr>
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<td>200V</td>
<td>100mV</td>
<td>±1.0% of rdg ±40</td>
</tr>
<tr>
<td>600V</td>
<td>1V</td>
<td>±1.9% of rdg ±40</td>
</tr>
</tbody>
</table>

Input Impedance: 10MΩ on all ranges
- Maximum Input: 600V DC or AC rms
- Frequency Range: 50Hz - 500Hz

**Frequency Measurement**
- **Range:** 2kHz - 15MHz (Autorange)
- **Accuracy:** ±0.1% rdg ±1D
- **Input Sensitivity:** Trig Lo: 1 Vrms; Trig Hi: 2 Vrms
- **Overload Protection:** 500V DC or AC rms

**Continuity Test (Audible)**
- **Resistance Range:** 200Ω
- **Beeper Response:** <40Ω

**Transistor hFE Test (PNP, NPN)**
- **Test Condition:** 10mA Base Current @ <3.5V
- **hFE Range:** 0 - 1000

**Diode Test**
- **Voltage:** 2V @ 1.6mA Max

**Frequency Measurement**
- **Range:** 2kHz - 15MHz (Autorange)
- **Accuracy:** ±0.1% rdg ±1D
- **Input Sensitivity:** Trig Lo: 1 Vrms; Trig Hi: 2 Vrms
- **Overload Protection:** 500V DC or AC rms

**Continuity Test (Audible)**
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**Transistor hFE Test (PNP, NPN)**
- **Test Condition:** 10mA Base Current @ <3.5V
- **hFE Range:** 0 - 1000

**Diode Test**
- **Voltage:** 2V @ 1.6mA Max

**Display:** 3 1/2 Digit LCD, 0.55” high, with polarity

**Overrange Indication:** “OL” is displayed

**Measurement Rate:** 2.5 times per second

**Operating Environment:** 0°C to 50°C, <70% relative humidity

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