Digital Multimeter

**DM-21**

- **Low Cost General Purpose**
  - Transistor h\(\text{FE}\)
  - Diode Test
  - LED Test
  - Square Wave Generator
  - 7 Functions, 11 Ranges
  - 0.8% Basic DC Accuracy
  - 3 1/2 Digit LCD, 0.55” H
  - Low Power \(\Omega\)
  - Overload Protection
  - RF Shielded
  - Polarity Indicator
  - Low Battery Indicator
  - Tilt Stand
  - 1-Year Limited Warranty

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

**SPECIFICATIONS:**

**General**
- **Display:** 3 1/2 Digit LCD, 0.55” high, with polarity
- **Overrange Indication:** “1” or “–1” 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

**DC Voltage**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2V</td>
<td>1mV</td>
<td>±0.8% of rdg ±1D</td>
</tr>
<tr>
<td>20V</td>
<td>10mV</td>
<td>±0.8% of rdg ±1D</td>
</tr>
<tr>
<td>200V</td>
<td>100mV</td>
<td>±0.8% of rdg ±1D</td>
</tr>
<tr>
<td>600V</td>
<td>1V</td>
<td>±0.8% of rdg ±1D</td>
</tr>
</tbody>
</table>

Input Impedance: 1MΩ on all ranges.
Maximum Input: 600V DC or 500AC rms.

**AC Voltage**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>200V</td>
<td>100mV</td>
<td>±1.5% of rdg ±4D</td>
</tr>
<tr>
<td>500V</td>
<td>1V</td>
<td>±1.5% of rdg ±4D</td>
</tr>
</tbody>
</table>

Input Impedance: 450KΩ on all ranges.
Maximum Input: 600V DC or 500AC rms.
Frequency Range: 50Hz - 500Hz.

**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>±1.5% of rdg ±3D</td>
</tr>
<tr>
<td>2KΩ</td>
<td>1Ω</td>
<td>±1.5% of rdg ±3D</td>
</tr>
<tr>
<td>20KΩ</td>
<td>10Ω</td>
<td>±1.5% of rdg ±3D</td>
</tr>
<tr>
<td>200KΩ</td>
<td>100Ω</td>
<td>±1.5% of rdg ±3D</td>
</tr>
<tr>
<td>2MΩ</td>
<td>1KΩ</td>
<td>±1.5% of rdg ±3D</td>
</tr>
</tbody>
</table>

Overload Protection: 500V DC or 350AC rms

**Transistor h\(\text{FE}\) Test (PNP, NPN)**
- **Test Condition:** 10µA Base Current @ <3.5V
- **h\(\text{FE}\) Range:** 0 - 1000

**Diode Test**
- **Voltage:** <3.5V @ 1mA ±0.6mA

**LED Test**
- **Voltage:** <3.5V @ 10mA ±0.6mA

**Generator**
- **Waveform:** Square
- **Frequency:** 50Hz approx
- **Output:** ±3 to -0.5V DC, 50% Duty Cycle
- **Impedance:** 120KΩ

**Power**
- **Battery:** 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)

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