OPERATING INSTRUCTIONS
ELENCO CM-1555
CAPACITANCE METER

SPECIFICATIONS

Display: 3½ digit liquid crystal display (LCD) with a maximum reading of 1999.

Polarity: Automatic, positive implied, negative polarity indication.

Overrange: (1) or (-1) is displayed.

Zero: Automatic.

Low battery indication: the "低压" is displayed when the battery voltage drops below the operating level.

Measurement rate: 2 times per second, nominal.

Operating Environment: 0°C to 50°C at < 70% relative humidity.

Storage Temperature: -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.

Accuracy: Stated accuracy at 23°C ± 5°C, < 75% relative humidity.


Battery life: 300 hours typical with carbon-zinc.

Dimensions: 151 mm (H) x 70 mm (W) x 38 mm (D).

Weight: Approx. 7 oz. (200g) including battery.

Accessories: One pair test leads, 9V battery (installed), one spare fuse (installed) and Operating Instructions.

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Test Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>200pF</td>
<td>0.1pF</td>
<td>±(0.5%/rdg+1dgt+0.5pF)</td>
<td>820Hz</td>
</tr>
<tr>
<td>2000pF</td>
<td>1pF</td>
<td>±(0.5%/rdg+1dgt)</td>
<td>820Hz</td>
</tr>
<tr>
<td>20nF</td>
<td>10pF</td>
<td>±(0.5%/rdg+1dgt)</td>
<td>82Hz</td>
</tr>
<tr>
<td>200nF</td>
<td>100pF</td>
<td>±(0.5%/rdg+1dgt)</td>
<td>82Hz</td>
</tr>
<tr>
<td>2μF</td>
<td>1nF</td>
<td>±(0.5%/rdg+1dgt)</td>
<td>8.2Hz</td>
</tr>
<tr>
<td>20μF</td>
<td>10nF</td>
<td>±(2.0%/rdg+1dgt)</td>
<td>8.2Hz</td>
</tr>
<tr>
<td>200μF</td>
<td>100nF</td>
<td>±(4.0%/rdg+1dgt)</td>
<td>8.2Hz</td>
</tr>
<tr>
<td>2000μF</td>
<td>1μF</td>
<td>±(2.0%/rdg+1dgt)</td>
<td>8.2Hz</td>
</tr>
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</table>

Test voltage: <3.5V
Input protection: 0.2A/250V fast acting fuse
Zero adjust limited: ±20pF approx.

OPERATION

WARNING
To avoid electrical hazards, discharge the capacitor before measuring.

1. For capacitance measurement less than 200nF, use the "0-ADJ" knob can be subtract the stray capacitance.
2. Set the range switch to the desired range.
3. Never apply an external voltage to the input terminals. Damage to the meter may result.
4. Observe polarity when measuring polarized capacitors.
5. Insert the capacitor leads into the receptacle socket or directly connect the test clip to the capacitor leads as required.
6. Read the capacitance direct from the display.

Battery Replacement
Power is supplied by a 9 volt "transistor" battery. (NEDA 1604, IEC 6F22). The "低压" appears on the LCD display when replacement is needed. To replace the battery, remove the two screws from the back of the meter and lift off the front case. Remove the battery from battery contacts.

Fuse Replacement
If no capacitance measurements are possible, check for a blown overload protection fuse. For access to fuses, remove the two screws from the back of the meter and lift off the front case. Replace fuse only with the original type 0.1A/250V fast acting fuse.