NON-CONTACT AC
HIGH VOLTAGE DETECTOR
Mitchell Instrument Model MITHD3

► Works on unshielded cables only
► Wide range of detection; finds 80V to 275kV; one instrument fits all applications
► Eight switch selectable voltage sensitivity ranges
► Lightweight, minimizes sway at the end of long hot sticks
► Audible and visual indication of live voltage
► Self-test position ensures that all system functions and indicators are working properly by energizing the complete system
► Designed for use with hot sticks incorporating a shotgun adapter
► Powered by three standard Alkaline C cell batteries
The Model MITHD3 is designed to detect the presence of high voltage without physical contact. An eight position rotary switch selects the detection range. As the sensor is moved closer to the voltage carrying conductor, its sensor head picks up the radiated electric field. Once the range threshold is reached, the buzzer sounds and a bright red warning light warns the operator of live conductors.

The Model MITHD3 is powered by three standard Alkaline C cell batteries and can be used both in- and out-of-doors. A universal spline on the back-end facilitates attachment to any standard hot stick. A self-test position ensures that all circuitry and indicators are working properly before use.

**FEATURES**

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**APPLICATIONS**

- Non-contact detection of live voltages
- Check and detect live high voltage cables
- Find faults in cables
- Check grounding equipment
- Service neon lighting
- Trace live wires
- Check high frequency radiation
- Detect residual or induced voltages
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MITHD3</th>
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</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL</strong></td>
<td></td>
</tr>
<tr>
<td>Ranges</td>
<td>240V, 2kV, 6kV, 11kV, 22kV, 33kV, 132kV, 275kV</td>
</tr>
<tr>
<td>Detection</td>
<td>Range selected @ approximately 10&quot; (25cm); 45% to 65% of range @ approximately 4&quot; (10cm) Greater detection distance obtained with lower range setting (higher sensitivity) than working voltage</td>
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<tr>
<td>Detection Frequencies</td>
<td>40 to 70 Hz</td>
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<tr>
<td><strong>MECHANICAL</strong></td>
<td></td>
</tr>
<tr>
<td>Self Test</td>
<td>User selectable</td>
</tr>
<tr>
<td>Indicators</td>
<td>Bright red LED and audible buzzer</td>
</tr>
<tr>
<td>Power Source</td>
<td>Three 1.5V C cell batteries</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3.78 x 9&quot; (96 x 229mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.30 lbs (0.59kg) batteries included</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>5° to 130°F (-15° to 55°C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4° to 150°F (-20° to 65°C)</td>
</tr>
<tr>
<td>Humidity</td>
<td>0 to 93% RH @ 104°F (40°C)</td>
</tr>
</tbody>
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## CONSTRUCTION

- **Buzzer** — high audible level
- **Rotary Selector** with the following settings:
  - OFF
  - TEST
  - 240V
  - 2kV
  - 6kV
  - 11kV
  - 22kV
  - 33kV
  - 132kV
  - 275kV
- **Large bright red warning light** (two LEDs)
- **Battery holder/handle**
- **Universal spline for hot stick connection**

## ORDERING INFORMATION

**Non-Contact High Voltage Detector Model MITHD3** (240V to 275kV)

**Order Number**: MMJ-MITHD3

Includes a shotgun adapter, three C cell batteries, padded carrying case and user manual.