The CMI233 gauge combines state of the art electronics and software with a compact, rugged design, suited for some of the most hostile work environments.

The CMI233 gauge provides a reliable means for performing accurate, efficient inspection of coating/plating thickness at the lowest cost. Measurements can be taken in automatic or continuous modes. A scanning option compensates for uneven or textured substrate materials, enhancing performance of gauge repeatability and reproducibility. A large memory capacity for over 12,000 readings can accommodate even high usage applications.

Oxford Instruments offers a worldwide network of support and service. Like all our instruments, the CMI233 is backed by our guarantee of superior service before and after you order.
### Probe Selector Chart

<table>
<thead>
<tr>
<th>Probe Type</th>
<th>Probe Shape</th>
<th>Probe Mode</th>
<th>Min. Radius Convex Cylinder</th>
<th>Min. Radius Concave Cylinder</th>
<th>Min. Measurement Area</th>
<th>Min. ID Rt. Angle</th>
<th>Min. base Thickness(mils)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eddy Current</td>
<td>Straight</td>
<td>ECP</td>
<td>500*(11.2mm)</td>
<td>440*(11.2mm)</td>
<td>4.0&quot;(102mm)</td>
<td>N/A</td>
<td>12 (0.3mm)</td>
</tr>
<tr>
<td>Magnetic</td>
<td>Right Angle</td>
<td>RSMP-2</td>
<td>0.44&quot;(1.6mm)</td>
<td>0.425&quot;(108mm)</td>
<td>0.375&quot; (9.6mm)</td>
<td>N/A</td>
<td>12 (0.3mm)</td>
</tr>
</tbody>
</table>

### Specifications:

**Measurement methods:**
- Magnetic Induction: Conforms to methods ASTM B499 & BS530, DIN 50981, ISO 2178 and BS 5411 Parts 9 & 11
- Eddy Current: Conforms to methods ASTM B244 & B259, DIN 50984, ISO 2360 and BS 5411 Part 3
- **Accuracy:** +/- (1% + 0.1µm) relative to reference standards

**Measurement Ranges:**
- Magnetic: 0.1 - 120 mils (0 - 3.01 mm), Eddy Current: 0.1 - 60 mils (0 - 1.52 mm)
- **Resolution:** 0.01 mils (0.25 µm)

**Memory Capacity:** 12,400 stored readings

**Min. Ferrous and non-ferrous substrate thickness:**
- 12 mils (305 µm)

**Dimensions:**
- 5 7/8" (L) x 3 1/8" (W) x 1 3/16" (D) (14.9 x 7.94 x 3.02 cm)

**Weight:**
- 9 oz (0.26 kg) including battery

**Units:** Automatic conversion between imperial and metric with a keystroke

**Battery:**
- 9V dry or rechargeable

**Battery Life:**
- Continuous Hours - 9V Dry: 50 Ferrous, 45 Non-Ferrous, Rechargeable: 11 Ferrous, 10 Non-Ferrous

**Statistical Display:**
- Number of readings, mean, standard deviation, high and low reading

**Display:**
- Three digit LCD display, 1/2" (1.27cm) character height

**Keypad:**
- Sealed membrane. Enhanced units - 16 keys

**Scanning feature:**
- Automatically average readings over a designated scan time (or can supply actual date hi-lo values)

- Measure etched traces as thin as 204 µm (8mil) without line width standards
- Store 9,690 measurements (with optional date and time stamp)
- Custom calibrated for your application using Oxford Instruments certified reference materials
- Customizable for other applications
- Static or continuous mode measurement
- Powered by regular AA batteries

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