

# CMI233

## Hand Held Coating Thickness Gauge With The Diversity Of Bench Top Instruments

### Description :

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

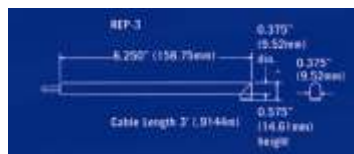
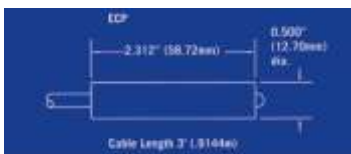
Probe Type	Probe Shape	Probe Mode	Min. Radius Convex Cylinder	Min. Radius Concave Cylinder	Working Height	Min. Measurement Area	Min. ID Rt. Angle	Min. base Thickness(mils)
Eddy Current	Straight	ECP	500"(11.2mm)	440"(11.2mm)	4.0"(102mm)	.360" (9.2mm)	N/A	12 (0.3mm)
Eddy Current	Right Angle	REP-3	N/A	N/A	N/A	.360" (9.2mm)	.575" (14.6mm)	12 (0.3mm)
Magnetic	Straight	SMP-2	.060"(1.6mm)	250"(6.4mm)	4.25"(108mm)	.375" (9.6mm)	N/A	12 (0.3mm)
Magnetic	Right Angle	RSMP-2	N/A	N/A	N/A	.375" (9.6mm)	800"(20.4mm)	12 (0.3mm)

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### Specifications :

Measurement methods:	
Magnetic Induction:	Conforms to method ASTM B499 & B530, DIN 50981, ISO 2178 and BS 5411 Parts 9 & 11
Eddy Current:	Conforms to methods ASTM B244 & B259, DIN 50984, ISO 2360 and BS5411 Part 3
Accuracy:	+/- (1% + 0.1µm) relative to reference standards
Measurement Ranges:	Magnetic: 0 - 120 mils (0 - 3.01 mm), Eddy Current: 0 - 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 Package:	Optional CMI SmartStats provides a full statistical program and a report writer (SmartDocs)
Statistical Display:	Number of readings, mean, standard deviation, high and low reading, Histogram and Cpk available with printer or serial output
Interface:	RS-232 Serial port output with adjustable baud rate, for a printer or PC download
Printer:	Optional 40 column thermal printer
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)
	<ul style="list-style-type: none"> <li>• Measure etched traces as thin as 204 µm (8mils) without line width standards</li> <li>• Store 9,690 measurements (with optional date and time stamp)</li> <li>• Custom calibrated for your application using Oxford Instruments certified reference materials</li> <li>• Customizable for other applications</li> <li>• Static or continuous mode measurement</li> <li>• Powered by regular AA batteries</li> </ul>



Item Code : ST-CMI 233