

CMI233®

Hand held coating thickness gauge with the diversity of benchtop instruments

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.

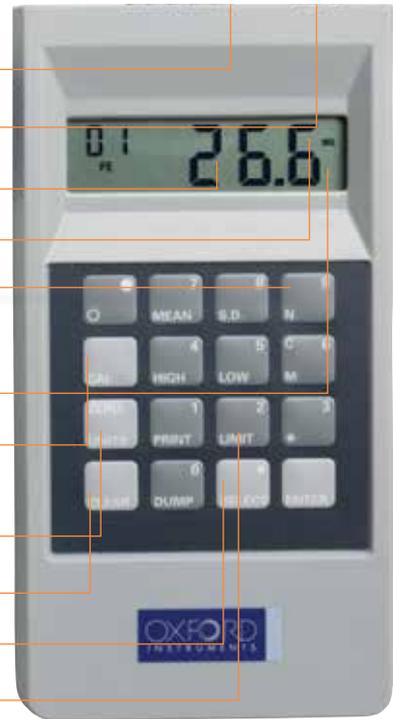
Oxford Instruments offers a worldwide network of support and service. Like all our instruments, the **CMI233** is backed by our guarantee of superior service before and after you order.

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INSTRUMENTS

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- AC socket _____
- Probe port has automatic probe recognition _____
- Easy to read 3 digit LCD display with floating decimal point _____
- Reads in μm or mils at the push of a button _____
- Selects statistics for display on LCD _____
- ON/OFF (Automatically switches OFF after 1 minute to conserve power)
- Low battery indication _____
- Automatic drift compensation for all built in calibrations _____
- Toggles between Continuous and Automatic modes (Continuous mode permits rapid scan before committing readings to stats storage _____
- Clears last reading or accumulated statistics _____
- Select memory location _____
- Sets Hi/Lo limits _____



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)
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)

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 BS 5411 Part 3

Accuracy: +/- (1% + 0.1 μm) 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 (8mils) 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

visit www.oxford-instruments.com for more information or email Industrial@oxinst.com

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