

## CMI233®

Diverse handheld coating thickness gauge with the accuracy of a benchtop

### What next?

Contact one of our experts today at [contact@hitachi-hightech-as.com](mailto:contact@hitachi-hightech-as.com) to arrange a demo.

### MORE INFORMATION

To find out more about the CMI233® or our range of electroplating and metal gauges, visit

[www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha)

## HIGH PERFORMANCE, RUGGED DESIGN THAT IS AFFORDABLE

The CMI233® gauge provides a reliable means for performing accurate, efficient inspection of coating/plating thickness at an affordable price. Measurements can be taken in automatic or continuous modes.

Our CMI233® has a unique scanning option which 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.

Accommodates 1 eddy current and 2 magnetic probes.

### KEY FEATURES:

- | Battery operated.
- | Withstands harsh environments.
- | Large memory capacity.

**AFFORDABLE  
WITH HIGH  
PERFORMANCE**

## PROVIDE DESIGNATED SCAN TIME WITH AUTOMATIC DATE STAMP AND HIGH/LOW INDICATOR

- Measure etched traces as thin as 204  $\mu\text{m}$  (8mils) without line width standards.
- Store 9,690 measurements (optional date and time stamp).
- Custom calibrated specific for your application with certified reference materials.
- Customizable for multiple applications.
- Static or continuous mode measurement.

## PROBE SELECTION 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:** Statistical Display: Number of readings, mean, standard deviation, high and low reading.
- 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  $\mu\text{m}$ ) relative to reference standards.
- Measurement Ranges:** Magnetic: 0.1 - 120 mils (0 - 3.01mm)  
Eddy Current: 0.1 - 60 mils (0 - 1.52mm).
- Resolution:** 0.01 mils (0.25  $\mu\text{m}$ ).
- Memory Capacity:** 12,400 readings.
- Min. Ferrous and Non-Ferrous Thickness:** 12 mils (305  $\mu\text{m}$ ).
- Dimensions:** in: 5 7/8" (L) x 3 1/8" (W) x 1 3/16" (D)  
cm: 14.9 (L) x 7.94 (W) x 3.02 (D).
- Weight:** 9oz (0.26kg) including battery.
- Units:** Automatic conversion between imperial and metric with a keystroke.
- Battery:** 9V dry or rechargeable (Continuous Hrs.:  
50 Ferrous, 45 Non-Ferrous).
- Rechargeable Battery:** 11 Ferrous, 10 Non-Ferrous.
- Display:** Three digit LCD display, 1/2" (1.27cm) character height.
- Keypad:** Sealed membrane. Enhanced units - 16 keys.

Our global network of service hubs offer a full range of technical support to keep you up and running. We are A2LA certified\* for coating thickness calibrations which ensures that your CMI233® will be compliant at audit to ISO 17025.



\*A2LA is applicable to Hitachi High-Tech Analytical Science Americas, Inc. only, contact us to learn more.

If you'd like to learn more about the CMI233® gauge visit [www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha) or email one of our experts at [contact@hitachi-hightech-as.com](mailto:contact@hitachi-hightech-as.com) to book a demo.

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