

CMI155 & CMI157

Advanced coating thickness on ferrous and non-ferrous metal substrates

Find out more

These gauges are a great complement to our XRF coatings analysers. To place your order contact contact@hitachi-hightech-as.com

MORE INFORMATION

To find out more about the CMI155 and CMI157 or our range of metal finishing gauges, visit

www.hitachi-hightech.com/hha



RAPID AND RELIABLE INSPECTION OF PAINT, LACQUER, AND PROTECTIVE COATINGS ON METAL SUBSTRATES

The CMI155 and CMI157 are capable of measuring the thickness of a single layer or the total thickness of applied coatings on steel, aluminium and other metals. The base of the probe is designed for measurement of smooth surfaces with an extended measurement range. These gauges are ideal metrology tools for:

- | Paint & powder coaters.
- | Coating inspectors.
- | Automotive and aerospace finishers.
- | Electroplating plants.

Our compact, handheld gauges are factory calibrated. Just point and measure and the gauge will automatically select the best measurement technique dependent on the base material being evaluated.

These gauges are durably designed with a rubberized protective cover designed to withstand use in harsh conditions.

KEY FEATURES

- | One touch, easy operation.
- | Factory calibrated.
- | Automatic detection of substrate.
- | Integrated probe.
- | Casing IP52 rated, protects against dust and water.

**DUAL
TECHNOLOGY FOR
MEASUREMENT
ON CONTACT**

CMI150 SERIES DUAL TECHNOLOGY

Magnetic induction technology for non-magnetic coatings (paint, powder coat, zinc, cadmium) over ferrous and magnetic steel.

Measurements taken conform to the following specifications:

- | ASTM D709.
- | ASTM B499.
- | ASTM B530.
- | DIN EN ISO 2178.

Choose eddy current technology for non-conductive coatings (paint, powder coat, epoxy, lacquer) over non-ferrous metals like aluminium, magnesium or copper. Measurements taken can provide compliance for the following specifications:

- | ASTM B244.
- | ASTM B529.
- | DIN EN ISO 2360.

PAINT GAUGE COMPARISON CHART

	CMI155	CMI157	CMI255	CMI257	CMI233M	CMI233E	CMI233D
Gauge	Ferrous/ Non-Ferrous	Ferrous/ Non-Ferrous	Ferrous/ Non-Ferrous	Ferrous/ Non-Ferrous	Ferrous	Non-Ferrous	Ferrous/ Non-Ferrous
Measures on magnetic steel	●	●	●	●	●		●
Measures on Aluminum	●	●	●	●		●	●
Technique	Magnetic induction/ Eddy current	Magnetic induction/ Eddy current	Magnetic induction/ Eddy current	Magnetic induction/ Eddy current	Magnetic induction	Eddy current	Magnetic induction/ Eddy current
Probe	Integrated	Integrated	Integrated	Tethered	Tethered	Tethered	Tethered
Probe Replacement	Service	Service	Service	Service	User replaceable	User replaceable	User replaceable
Unit Selection	mil or μm	mil or μm	mil or μm	mil or μm	mil or μm	mil or μm	mil or μm
Thickness Range							
mil	F: 0-80 NF: 0-80	F: 0-120 NF: 0-120	F: 0-140 NF: 0-120	F: 0-140 NF: 0-120	F: 0-140	NF: 0-60	F: 0-120 NF: 0-60
μm	F: 0-2,000 NF: 0-2,000	F: 0-3,000 NF: 0-3,000	F: 0-3,500 NF: 0-3,000	F: 0-3,500 NF: 0-3,000	F: 0-3,048	NF: 0-1,524	F: 0-3,048 NF: 0-1,524
Accuracy							
mil	$\pm 5\% + 0.12$	$\pm 5\% + 0.12$	$\pm 2\%$ or $\pm 0.08^*$	$\pm 2\%$ or $\pm 0.08^*$	$\pm 0.05 + 1\%$	$\pm 0.05 + 1\%$	$\pm 0.05 + 1\%$
μm	$\pm 5\% + 3$	$\pm 5\% + 3$	2*	2*	$\pm 0.1 + 1\%$	$\pm 0.05 + 1\%$	$\pm 0.05 + 1\%$
Resolution							
mil	0.1@0-80	0.1@0-100 0.2@100-120	0.1@0-100 0.2@100-140	0.1@0-100 0.2@100-140	0.01	0.01	0.01
μm	1@0-1,000 2@1,000-2,000	1@0-1,000 2@1,000-2,500 5@2,500-3,000	1@0-1,000 2@1,000-2,500 5@2,500-3,500	1@0-1,000 2@1,000-2,500 5@2,500-3,500	0.25	0.25	0.25
Base Re-zero			●	●	●	●	●
User Calibration					●	●	●
Measurement Statistics			●	●	●	●	●

*Whichever is greater.

Our global network of service hubs offer a full range of technical support to keep you up and running.

If you'd like to learn more about CMI155 and CMI157 gauges visit www.hitachi-hightech.com/hha or email one of our experts at contact@hitachi-hightech-as.com to book a demo.

Hitachi High-Tech Analytical Science

This publication is the copyright of Hitachi High-Tech Analytical Science and provides outline information only, which (unless agreed by the company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or regarded as the representation relating to the products or services concerned. Hitachi High-Tech Analytical Science's policy is one of continued improvement. The company reserves the right to alter, without notice the specification, design or conditions of supply of any product or service.

Hitachi High-Tech Analytical Science acknowledges all trademarks and registrations.

© Hitachi High-Tech Analytical Science, 2017. All rights reserved.

Part number: 51-CMI155/51-CMI157



SPECIFICATIONS

- | Body dimensions: mm: 110 (H) x 50 (W) x 25 (D)
in: 4.3" (H) X 2" (W) X 1" (D).
- | Weight: 90 g (3.2 oz).
- | Batteries: 2 x AAA.
- | Protective Case: IP52 rated.

MINIMUM SAMPLE DIMENSIONS

- | Convex radius: 25 mm / 1".
- | Concave radius: 50 mm / 2".
- | Clearance: 125 mm / 5".
- | Measurement area: 40 mm x 40 mm / 1.6" x 1.6".