

CMI 100 Series

Hand held coating thickness gauge

CMI 100 Series measures coating thicknesses to within $\pm 1\%$ ($0.1 \mu\text{m}$) accuracy. Battery operated and weighing 2.3 ounces, it's our smallest, most portable, coating thickness gauge.

It's also one of the easiest to use, with built-in probe and only four buttons controlling all operations.



The **CMI 100 Series** puts full size measuring functions in the palm of your hand.

Like all of our instruments, it's backed by the Oxford Instruments Group. We guarantee superior service before and after your order.

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Make precision measurements single handedly

CMI100 Series gauges are available in a Magnetic Induction Model (120 Series) and an Eddy Current Model (140 Series).

Both offer viewing or wireless printing of statistics, including number of readings, mean, standard deviation, high reading, low reading and last reading.

Backlit display for low light environments

Four buttons allow you to:

- Toggle readings for mils or microns
- Turn the backlight ON/OFF
- View or print statistics
- Clear a reading

Infrared download to a printer

Auto ON/OFF Power to conserve battery life

V-notch for precise measurement of rods and other curved surfaces

Built-in probe



CMI100 Series Specifications

Measurement methods:

Magnetic Induction: Conforms to methods ASTM B499 & B530, DIN 50981, ISO 2178 and BS 5411 Part 9 & 11

Eddy Current: Conforms to methods ASTM B244 & B529, DIN 50984, ISO 2360 and BS 5411 Part 3

Accuracy: 1% ± 0.1µm referred to reference standards

Measurement Ranges:

Magnetic: 0-120 mils (0-3.05 mm)

Eddy Current: 0-40 mils (0-1.02 mm)

Resolution: 0.01 mils (0.25 µm) below 10 mils (254 µm)

0.1 mils (2.5 µm) 10 mils (254 µm) & above

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

Dimension: 5" (L) x 1.5" (W) x 1.0" (D)
(12.7 x 3.8 x 2.54 cm)

Weight: 2.3 ounces (65 g) without battery

Units: Automatic conversion from English to metric or metric to English at the push of a button

Battery: 6 Volt Lithium Type A544 or equivalent

Statistical Display: Number of readings, mean, standard deviation, high reading, low reading, last reading

Interface: infrared light beam to printer

Printer: Optional. Hewlett-Packard Model HP82204B

Display: Backlit LCD

Applications: Magnetic: All non-magnetic coatings such as zinc, chrome, cadmium, tin, copper, teflon, epoxy, paint or enamel on a ferrous substrate

Eddy Current: All non-conductive coatings such as anodizing, paint, powder coatings or epoxy on conductive substrates such as copper, brass or aluminum

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