

**Coating Thickness Meter with F&NF probe**  
**MODEL NO. CM-1210A/CM-1210B**



**Principles**

Principles	Applications	Examples
F Type Magnetic Induction (Iron Base)	Measure the thickness of non-magnetic materials on magnetic materials	Galvanizing layer, lacquer layer, porcelain enamel layer, phosphide layer, copper tile, aluminium tile, some alloy tile, paper etc
NF Type Eddy Current (Aluminium Base)	Measure the thickness of non-conductive coatings on non-magnetic metals	Anodizing, varnish, paint, enamel, plastic coatings, powder, etc. Applied to aluminum, brass, non-magnetic stainless steel, etc

**APPLICATION**

Coating thickness gauge is a kind of portable testing instrument, can take fast, intact, precise measurement of coating thickness. It can be used in both engineering field, and laboratories, as an essential instrument in material protection industry.

**KEY FEATURES**

- Can store the new data in 99 groups.(Only for CM-1210B)
- Two measuring methods: magnetic induction (F) and eddy current (N)
- Two measurement mode: Single and Continuous (Notice: Continuous mode is convenient to measure the coating thickness of curved objects and tiny objects.)
- Automatic memory of calibration value ,and automatic recognize the substrate
- Operation process has buzzing reminder, while no buzzing in continuous mode.
- Use RS-232 data output to connect with PC.
- Provide Bluetooth data output choice.
- Separate Type can provide several type probe, measure can be more flexibility.
- Metric/imperial system selectable.
- Manual or automatic shut down.

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**SPECIFICATIONS**

- \* Operating Principle: F Magnetic Induction / NF type Eddy Current
- \* Measuring Range: 0~2000  $\mu\text{m}$  / 0~80 mil
- \* Resolution: 0.1  $\mu\text{m}$  / 1 m
- \* Min. Radius Work piece: F Type: convex 1.5 mm / concave 25 mm; NF Type: convex 3 mm / concave 50 mm
- \* Min. Measuring Area: 6 mm
- \* Min. Sample Thickness: 0.3 mm
- \* Accuracy:  $\pm 1\sim 3\%n$  or  $\pm 2.5 \mu\text{m}$
- \* Auto Power Off
- \* Metric / Imperial: Convertible
- \* Battery Indicator: Low Battery Indicator
- \* Operating Conditions: Temp. 0~40 °C, Humidity: 10~90 %RH
- \* Power Supply: 4 x 1.5 V AAA (UM-4) Battery (no included)
- \* Dimensions: 140 x 72 x 34 mm ( 5.5 x 2.8 x 1.3 inch )
- \* Weight: 215 g (Not Including Batteries)

**ACCESSORIES**

Standard Accessories:

- \* Main Unit x 1pc
- \* Probe (F type/NF type) x 1 set
- \* Calibration Base Set (F Type / NF Type) x 1 set
- \* Calibration Foils (1 set, 4 pieces)
- \* Carrying Case x 1pc
- \* Operation Manual x 1pc

Optional accessories:

- \* RS-232C data cable with software x 1 set
- \* Bluetooth data Adapter with software x 1 set

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