

**Coating Thickness Gauges with F&NF Probes**  
**MODEL NO. CM-8822**



**APPLICATION**

Coating thickness gauge is a kind of portable measuring instrument, can take fast, intact, precise measurement of coating thickness. It can not only be used in engineering field, laboratories, but also meet the demand of multiple measuring by using different probes. It is used widely in manufacturing, metal processing industry, chemical industry, commodity inspection field, etc. As an essential instrument in material protection industry.

**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

**KEY FEATURES**

- 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. )
- Metric/imperial system selectable.
- Manual or automatic shut down.
- Automatic memory of calibration value and automatic recognize the substrate.
- Operation process has buzzing reminder, while no buzzing in continuous mode.
- Separate Type can provide several type probe, measure can be more flexibility

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**SPECIFICATIONS**

- \* Operating Principle: Magnetic Induction / Eddy Current (F / NF)
- \* Measuring Range: 0~1000  $\mu\text{m}$  / 0~40 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:  $\pm 1\sim 3\%$  or  $\pm 2.5 \mu\text{m}$
- \* Auto Power Off
- \* Metric / Imperial: Convertible
- \* Battery Indicator: Low Battery Indicator
- \* Operating Conditions: Temp. 0~50 °C, Humidity: <80 %RH
- \* Power Supply: 4 x 1.5 V AAA (UM-4) Battery (no included)
- \* Dimensions: 161 x 69 x 32 mm
- \* Weight: 250 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

**BESTONE INDUSTRIAL LTD.**

Tel: +86 755 82952326, Fax: +86 755 82952326

Web: [www.bestone-meter.com](http://www.bestone-meter.com)

Email: [liu@bestone-meter.com](mailto:liu@bestone-meter.com)

Skype: Bestone-Shirley Liu

WhatsApp: +86 18929394326