

Coating Thickness Gauge



Model: CM-1210A (Functional Type)
CM-1210B (Statistical Type)

Applications & Features

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.

- * The Model CM-1210B can store the new data in 99 groups.
- * Metric/imperial system selectable.
- * Manual or automatic power off.
- * Auto memory of calibration value, auto substrate recognition.
- * Use RS-232 data output to connect with PC.
- * Provide Bluetooth data output choice.

Specifications

Model	CM-1210A	CM-1210B
Principle	F Magnetic Induction & NF Type Eddy Current	
Range	0~2000 μ m / 0~80mil	
Resolution	0.1 μ m / 1 μ m	
Accuracy	$\pm 1\sim 3\%$ n or $\pm 2.5\mu$ m	
Min. Radius Workpiece	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	
Metric / Imperial	✓	
Functions	Battery Indicator & Automatic Power Off	
Data Memory	—	99 Groups
Operating Conditions	Temperature: 0~40°C Humidity: 10~90%RH	
Power Supply	4x1.5V AAA (UM-4) Battery	
Dimensions	140x72x34mm	
Weight	215g (Not Including Batteries)	

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

Standard Accessories	CM-1210A	CM-1210B
Main Unit	✓	✓
Probe (F&NF Type)	✓	✓
Calibration Base (F)	✓	✓
Calibration Base (NF)	✓	✓
Calibration Foils	1 set, 4 pieces	
Carrying Case	B04	
Operation Manual	✓	
Optional Accessories	RS-232C Data Cable with Software Bluetooth Data Adapter with Software	