

Coating Thickness Gauge (Affordable Type)



Model: CM-8821 CM-8822 CM-8823

Applications

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



Features

- * Two principles: Magnetic Induction and Eddy Current.
- * Two measurement mode: Single and Continuous.
- * Metric/imperial system selectable.
- * Manual or automatic power off.
- * Automatic memory of calibration value, and automatic recognize the substrate.
- * Operation process have buzzing reminder.
- * Integral Type have better stability and repeatability.
- * Separate Type can provide several types of probes, measure can be more flexibility.

Specifications

Model		CM-8821	CM-8822	CM-8823
Principle	F Magnetic Induction	✓	✓	—
	NF Type Eddy Current	—	✓	✓
Range		0~1000 μ m / 0~40mil		
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		Convertible		
Battery Indicator		Low Battery Indicator		
Automatic Power Off		✓		
Operating Conditions	Temperature	0~50°C		
	Humidity	< 80%RH		
Power Supply		4x1.5V AA (UM-3) Battery		
Dimensions		161x69x32mm		
Weight (Not Including Batteries)		210 g	250 g	210 g

Standard Accessories	Main Unit	✓	✓	✓
	Probe (F Type)	✓	✓	—
	Probe (NF Type)	—	✓	✓
	Calibration Base (F)	✓	✓	—
	Calibration Base (NF)	—	✓	✓
	Calibration Foils	1 set, 5 pieces		
	Carrying Case	B04		
	Operation Manual	✓		