## > LS220H/LS221/LS223 Coating Thickness Gauge

The coating thickness gauge is used for detecting the coating thickness on metal surface. It adopts Hall effect and eddy current principles. It can be used to test the thickness of coatings, varnishes, enamels, etc. on ferromagnetic metal substrates such as steel. It can also be used to measure non-conductive coating thickness such as anodized coatings, ceramics on non-magnetic metal substrates such as copper, aluminum, die-cast zinc, brass,etc.







LS220H Integrated Type

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LS221 External Probe

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LS223 Wide Range

NFe: 0.0-3000µm

## Application

Metal Substrate	Coating Material	Examples	Measurable or not
Ferromagnetic material: iron, cobalt, nickel, gadolinium	Non-ferromagnetic metal: copper, aluminum, brass, etc.	Galvanized iron, copper-plated iron	$\checkmark$
	Non-metallic materials: paint, coating, plastic, etc	Iron spray paint, iron spray powder coating	$\checkmark$
	Ferromagnetic material: iron, cobalt, nickel, gadolinium	Iron nickel plated	×
Non-ferromagnetic metal: copper, aluminum, zinc, etc	Non-conductive material: anodized, paint	Aluminum anodizing, copper painting	$\checkmark$
	Conductive material: various types of metals	Copper chrome plating, copper zinc plating	×

## Features



narrow spaces and complex positions

## 44 **Core Advantages**

- 1. Dual use for ferrous and nonferrous metal substrate.
- 2. Digital probe can get stable data in repeated tests.
- 3. Responsive, fast measurement in 0.5s.
- 4. Ruby probe, longer service life 5. Accurate data, ensure to pass the inspection of China Institute
- of Metrology. 6. Small and portable, single button, simple operation.

Model	LS220H	LS221	LS223	
Probe Type	Integrated type	External probe	External probe, wide range	
Measuring Range	0.0-2000μm		Fe: 0.0-5000µm / NFe: 0.0-3000µm	
Accuracy	$\leqslant \pm$ (3% reading+2 $\mu$ m)		≤±(3% reading+2μm): 0-3000μm ≤±(5% reading+2μm): 3000-5000μm	
Resolution	0.1µm: (0µm-99.9µm) 1µm: (100µm-999µm) 0.01mm: (1.00mm-2.00mm)		0.1µm: (0µm-99.9µm) 1µm: (100µm-999µm) 0.01mm: (1.00mm-5.00mm)	
Probe Tip	Ruby			
Measuring principle	Fe: Hall Effect / NFe: Eddy Current			
Unit	μm / mil			
Measuring Interval	0.5s			
Minimum Measuring Area	φ= 25mm			
Minimum Curvature	Convex: 5mm / Cor		Concave: 25mm	
Minimum Substrate Thickness	Fe: 0.2mm / NFe: 0.05mm			

LS221