

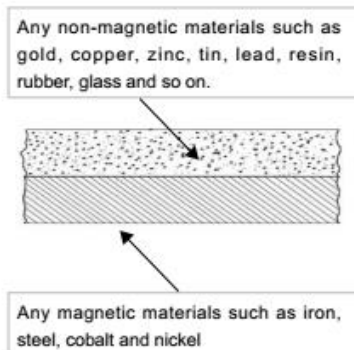
Optional Probes and Application Guide

Probe model	F400	F1	F1/90°	F10	N1	CN02		
Operating principle	Magnetic induction				Eddy current			
Measuring range (μm)	0-400	0-1250		0-10000	0 to 1250 μm 0 to 40 μm (for chrome plate on copper)	10-200		
Low range resolution (μm)	0.1	0.1		10	0.1	1		
Accuracy	One-point calibration (μm)	±(3%H+1)			±(3%H+10)	±(3%H+1.5)	±(3%H+1)	
	Two-point calibration (μm)	±[(1-3)H%+0.7]		±[(1-3)H%+1]	±[(1-3)H%+10]	±[(1-3)H%+1.5]	-	
Measuring conditions	Min curvature of the min area (mm)	Convex	1	1.5	Flatten	10	3	Flatten
	Diameter of the min area (mm)	φ3		φ7	φ7	φ40	φ5	φ7
	Critical thickness of substrate (mm)	0.2		0.5	0.5	2	0.3	unlimited

Application of two measuring methods

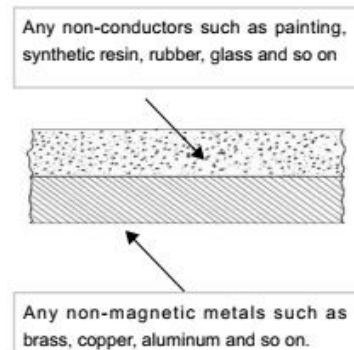
Magnetic induction (F)

- Coating: non-magnetic material
- Substrate (base): magnetic material



Eddy current (N)

- Coating: non-conductors
- Substrate (base): non-magnetic metals



Reference Table for Probe selection

Substrate \ Coatings		Non-magnetism coatings (Organic materials)		Non-magnetism coatings(nonferrous metals)	
		Thickness of coating is more than 100µm	Thickness of coating is less than 100µm	Thickness of coating is more than 100µm	Thickness of coating is less than 100µm
Steel,iron and other magnetism metal	Diameter of tesitng area is more than 30mm	F1 probe:0~1250 µm F400 probe:0~400µm	F1 probe: 0~1250 µm F10 probe:0~10µm	F400probe:0~400 µm F1probe:0~1250µm	F1 probe: 0~1250 F10µm probe:0~10µm
	Diameter of testing are is less than 30mm	F400 probe:0~400µm	F1 probe: 0~1250 µm F400 probe:0~400µm	F400probe:0~400µm	F400 probe:0~400 F1 probe:0~1250µm
Copper,Brass,Aluminum,Zinc, Tin and other metallic	Diameter of testing area is more than 5mm	N1 probe:0~1250µm		N1 probe:0~40µm (For chrome plate on copper)	
Nonmetallic substrate	Diameter of testing are is more than 7mm	-	-	CN02 Probe:10~200µm	