

COATING THICKNESS GAUGE (HIGH PRECISION) CODE ISO-8000FN

SUITABLE FOR THIN COATING
BELOW 10 μ m

FOR MAGNETIC AND
NON-MAGNETIC SUBSTRATES



calibration foils (included)



zero calibration plate
(included)



stand
(optional)



eddy current probe **N2000**
(optional)



eddy current probe **N1500**
(optional)



VIDEO



magnetic induction
probe **F500**
(included)

- Can measure thickness of thin coating below 10 μ m
- High repeatability
- Magnetic induction probe measures the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate
Substrate: iron, steel, magnetic stainless steel (not for non-magnetic stainless steel)
Coating: zinc, aluminum, copper, chrome, tin, plastic, powder, paint (not for nickel)
- Eddy current probe measures the thickness of non-conductive coating on non-magnetic metal substrate
Substrate: copper, aluminum, zinc, non-magnetic stainless steel
Coating: plastic, powder, paint, anodizing (not for chrome and zinc plating)
- Maximum, minimum, average and variance values can be calculated automatically

SPECIFICATION

Probe	F500 (included) magnetic induction probe	N1500 (optional) eddy current probe	N2000 (optional) eddy current probe
Measuring range	0~500 μ m	0~1500 μ m	0~2000 μ m
Resolution	0.1 μ m (range<100 μ m) 1 μ m (100 μ m \leq range \leq 500 μ m)	0.1 μ m (range<100 μ m) 1 μ m (100 μ m \leq range<1000 μ m) 0.01mm (1.00mm \leq range \leq 1.50mm)	0.1 μ m (range<100 μ m) 1 μ m (100 μ m \leq range<1000 μ m) 0.01mm (1.00mm \leq range \leq 2.00mm)
Accuracy*	$\pm(0.5\mu\text{m}+2\%L)$		
Repeatability*	$\leq(0.2\mu\text{m}+0.8\%L)$		$\leq(0.2\mu\text{m}+1\%L)$
Measuring mode	single and continuous		
Measuring interval	single mode	1.5s	0.8s
	continuous mode	0.4s	0.4s
Calibration mode	zero calibration and multi-points calibration (1~5 points)		
Minimum substrate thickness	0.1mm	0.05mm	
Minimum measuring area	\varnothing 7mm		\varnothing 25mm
Minimum radius of curvature workpieces	convex surface	1.5mm	
	concave surface	10mm	
Unit	μ m/mil		
Power supply	4 \times 1.5V AAA batteries		
Dimension	148 \times 76 \times 26mm		
Weight	148g		

* L is measuring thickness in μ m

STANDARD DELIVERY

Main unit	1 pc
Magnetic induction probe	1 pc
Zero calibration plate	1 pc
Calibration foils (5.6 μ m, 11.6 μ m, 24.6 μ m, 50.0 μ m, 100 μ m, 252 μ m, 390 μ m)	1 set
1.5V AAA battery	4 pcs

OPTIONAL ACCESSORY

Eddy current probe (with zero calibration plate and standard foil)	ISO-8000FN-N1500**
	ISO-8000FN-N2000
Stand	ISO-8000FN-STAND

**For precision measurement of thin coating below 10 μ m, please use the stand for eddy current probe