

# COATING THICKNESS GAUGE

## CODE 5401-TC11

TEMPERATURE  
COMPENSATION

DATA  
OUTPUT

- Magnetic induction probe (FM) measures the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate.  
Substrate: steel, iron, alloy, hard magnetic steel, etc.  
Coating: zinc, aluminum, chrome, copper, rubber, paint, etc.
- Eddy current probe (NM) measures the thickness of non-conductive coating on non-magnetic metal substrate.  
Substrate: copper, aluminum, zinc, tin, etc.  
Coating: rubber, paint, plastic, anodized film, etc.
- Real-time temperature compensation guarantees high accuracy, thin plating and oxide layer less than 20µm can be measured accurately
- Reduces the effects of electromagnetic interference and hand-held operation
- Probe can be re-matched after abrasion
- Tolerance measurement with adjustable alarm threshold
- USB interface for data transmission
- Coupling status indication
- Support cable printer



eddy current probe  
NM (optional)



magnetic induction probe  
FM (included)

### SPECIFICATION

Probe	FM (included) magnetic induction probe	NM (optional) eddy current probe
Range	0~1500µm	0~1500µm (chrome plating on copper: 0~40µm)
Resolution	0.1µm (<100µm) 1µm (100µm~1500µm)	
Accuracy *	zero calibration	±(1µm+2%L)
	one-point calibration	±(1µm+2%L)
	two-point calibration	±[1µm+(1~2)%L]
	multi-point calibration	±(1µm+1%L)
Measuring mode	single point measurement, scan mode, differential mode, average mode	
Calibration mode	zero calibration, one-point calibration, two-point calibration, multi-point calibration	
Test frequency	3 times per second	
Minimum substrate thickness	0.5mm	0.3mm
Minimum measuring area	Ø7mm	Ø5mm
Minimum curvature radius of convex workpiece	1.5mm	3mm
Data storage	500 groups	
Interface	USB	
Operation temperature	-10°C~50°C	
Power supply	3×1.5V AAA batteries	
Dimension	150×70×30mm	
Weight	160g	

### STANDARD DELIVERY

Main unit	1 pc
Magnetic induction probe (FM)	1 pc
Zero calibration block for FM probe	1 pc
Calibration foils (12/50/100/250/500/1000µm)	6 pcs
AAA battery	3 pcs
Software and USB cable	1 pc

\* L is the measured value in µm

### OPTIONAL ACCESSORY

Eddy current probe (NM) (with zero calibration block for NM probe)	5401-TC11-NM
Cable printer	5401-TC11-PRINTER