COATING THICKNESS GAUGE (ADVANCED TYPE)
CODE 5402-TC21

TEMPERATURE COMPENSATION | ONLINE MEASUREMENT IN REAL TIME | BLUETOOTH

- 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 and bluetooth interface for data transmission and online measurement in real-time
- Coupling status indication
- Support cable printer

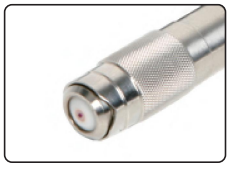
magnetic induction probe
FM (included)

mid-range magnetic induction probe
FL (OPTIONAL)

high-range magnetic induction probe
FX (OPTIONAL)

low-range magnetic induction probe
FS (OPTIONAL)

high-temp magnetic induction probe
FH (OPTIONAL)



eddy current probe
NM (OPTIONAL)

SPECIFICATION

Probe		**FM** (included) magnetic induction probe	**FL (optional)** mid-range magnetic induction probe	**FX (optional)** high-range magnetic induction probe	**FS (optional)** low-range magnetic induction probe	**FH (optional)** high-temp magnetic induction probe	**NM (optional)** eddy current probe
Range		0~1500μm	0~3000μm	0~10000μm	0~500μm	0~3000μm	0~1500μm
Resolution		0.1μm (<100μm) 1μm (100μm~10000μm)					
Accuracy *	**zero calibration**	±(1μm+2%L)	±(1μm+3%L)	±(2μm+5%L)	±(1μm+2%L)	±(1μm+3%L)	±(1μm+2%L)
	multi-point calibration	±(1μm+1%L)	±(1μm+2%L)	±(1μm+3%L)	±(1μm+1%L)	±(1μm+2%L)	±(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					
Minimum substrate thickness		0.5mm	0.5mm	2mm	0.2mm	0.5mm	0.3mm
Minimum measuring area		Ø7mm	Ø7mm	Ø40mm	Ø3mm	Ø7mm	Ø5mm
Minimum curvature radius of convex workpiece		1.5mm	1.5mm	10mm	1mm	1.5mm	3mm
Applicable surface temperature		0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~300°C	0°C~50°C
Data storage		500 groups					
Interface		USB, bluetooth					
Operation environment		0°C~40°C, 20%RH~90%RH					
Power supply		3×1.5V AAA batteries					
Dimensions (L×W×H)		150×70×30mm					
Net weight		160g					

* L is measuring thickness in μm

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

OPTIONAL ACCESSORY

Eddy current probe (NM) (with zero calibration block for NM probe)	5401-TC11-NM
Mid-range magnetic induction probe (FL)	5402-TC21-FL
High-range magnetic induction probe (FX)	5402-TC21-FX
Low-range magnetic induction probe (FS)	5402-TC21-FS
High-temp magnetic induction probe (FH)	5402-TC21-FH
Cable printer	5401-TC11-PRINTER