COATING THICKNESS GAUGE (ADVANCED TYPE)
CODE 5413-TC31

INSPECTION CERTIFICATE

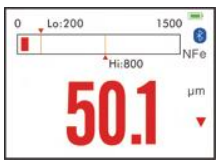
- Can measure the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate
  Substrate: iron, steel, magnetic stainless steel
  Coating: zinc, aluminum, copper, chrome, tin, plastic, powder, paint (not for nickel)
- Can measure the thickness of non-conductive coating on non-magnetic metal substrate
  Substrate: copper, aluminum, zinc, non-magnetic stainless steel
  Coating: plastic, powder, paint, anodizing (not for chrome and zinc plating)
- Zinc coating weight mode displays zinc layer thickness and weight
- Upper and lower limits can be set, over-limit alarm alert
- Data statistics and chart analysis
- Color LCD screen automatically rotates for different angles

5413-TC31

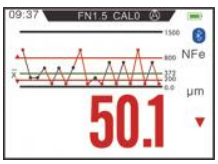
5413-TC31-FN15
probe (included)

reading only

reading and statistics



reading and bar graph



reading and run chart

SPECIFICATION

Measuring range	refer to the specification of probes
Accuracy	±(2%L+1μm): ≤1500μm ±(3%L+1.5μm): >1500μm, L is measuring thickness in μm
Resolution	range<3000μm: 0.1μm (0~99.9μm), 1μm (100~3000μm) range>3000μm: 0.1μm (0~99.9μm), 1μm (100~999μm), 0.01mm (≥1.00mm)
Measuring principle	FE mode: magnetic induction, NFE mode: eddy current effect
Calibration mode	zero calibration, one point calibration, two-point calibration, five-point calibration
Measuring mode	single mode, continous mode, average mode, zinc coating weight mode (for FE mode only)
Storage	1600 (100×16 groups)
Operation environment	temperature: -10°C~50°C; humidity: <80% (non-condensing)
Unit	μm, mil
Language	English, Chinese
Power supply	2×1.5V AA batteries or USB
Dimensions (L×W×H)	main unit: 134×67×38mm, probe: Ø14mm×850mm (cable included)
Net weight	185g

STANDARD DELIVERY

Main unit	1 pc
Probe (5413-TC31-FN15)	1 pc
Fe zero calibration plate	1 pc
NFe zero calibration plate	1 pc
Standard foil	1 set
1.5V AA battery	2 pcs
Protective case	1 pc

OPTIONAL ACCESSORY

FE/NFE probe	5413-TC31-FN30
Magnetic induction probe	5413-TC31-FE15, 5413-TC31-FE30, 5413-TC31-FE50
Rotatable magnetic induction probe	5413-TC31-FL15, 5413-TC31-FL30, 5413-TC31-FL50
Magnetic induction probe for bores and grooves	5413-TC31-FE90
V-shape slot A	5413-VA-FN (for 5413-TC31-FN15, 5413-TC31-FN30)
V-shape slot B	5413-VB-FE (for 5413-TC31-FE15, 5413-TC31-FE30, 5413-TC31-FE50)
Stand	5413-STAND

SPECIFICATION OF PROBES

Code	Range	Minimum substrate thickness	Minimum measuring area	Minimum curvature radius of convex workpiece	Probe type
5413-TC31-FN15 (included)	0~1500μm	0.3mm	Ø6mm	FE: 1.5mm, NFE: 3mm	FE/NFE probe
5413-TC31-FN30 (optional)	0~3000μm	0.3mm	Ø6mm	FE: 1.5mm, NFE: 3mm	
5413-TC31-FE15 (optional)	0~1500μm	0.3mm	Ø6mm	1.5mm	magnetic induction probe
5413-TC31-FE30 (optional)	0~3000μm	0.3mm	Ø6mm	1.5mm	
5413-TC31-FE50 (optional)	0~5000μm	0.3mm	Ø6mm	1.5mm	
5413-TC31-FL15 (optional)	0~1500μm	0.3mm	flat: Ø6mm, inner tube: Ø30mm	1.5mm	rotatable magnetic induction probe (0~90°)
5413-TC31-FL30 (optional)	0~3000μm	0.3mm	flat: Ø6mm, inner tube: Ø30mm	1.5mm	
5413-TC31-FL50 (optional)	0~5000μm	0.3mm	flat: Ø6mm, inner tube: Ø30mm	1.5mm	
5413-TC31-FE90 (optional)	0~1500μm	0.3mm	flat: Ø8mm, inner tube: Ø13mm	—	magnetic induction probe for bores and grooves

FE/NFE probe (included)

magnetic induction probe **(optional)**

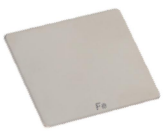
rotatable magnetic induction probe **(optional)**

magnetic induction probe for bores and grooves **(optional)**

V-shape slot A **(optional)**

V-shape slot B **(optional)**

stand **(optional)**



Fe zero calibration plate (included)

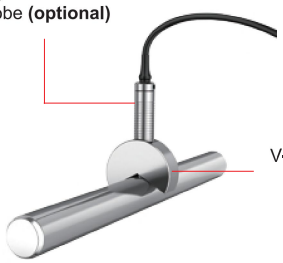
NFe zero calibration plate (included)

standard foil (included)

PROBE APPLICATION

■ probe with V-shape slot measuring cylinder

magnetic induction probe **(optional)**



V-shape slot B **(optional)**

V-shape slot A

V-shape slot B

■ rotatable magnetic induction probe measuring confined area